The whole art and trade of hysbandry, contained in foure bookes. Viz: I. Of earable-ground, tillage, and pasture. II. Of gardens, orchards, and vvoods. III. Of feeding, breeding, and curing of all manner of cattell. IIII. Of poultrie, fowle, fish, and bees / Enlarged by Barnaby Googe.

#### Contributors

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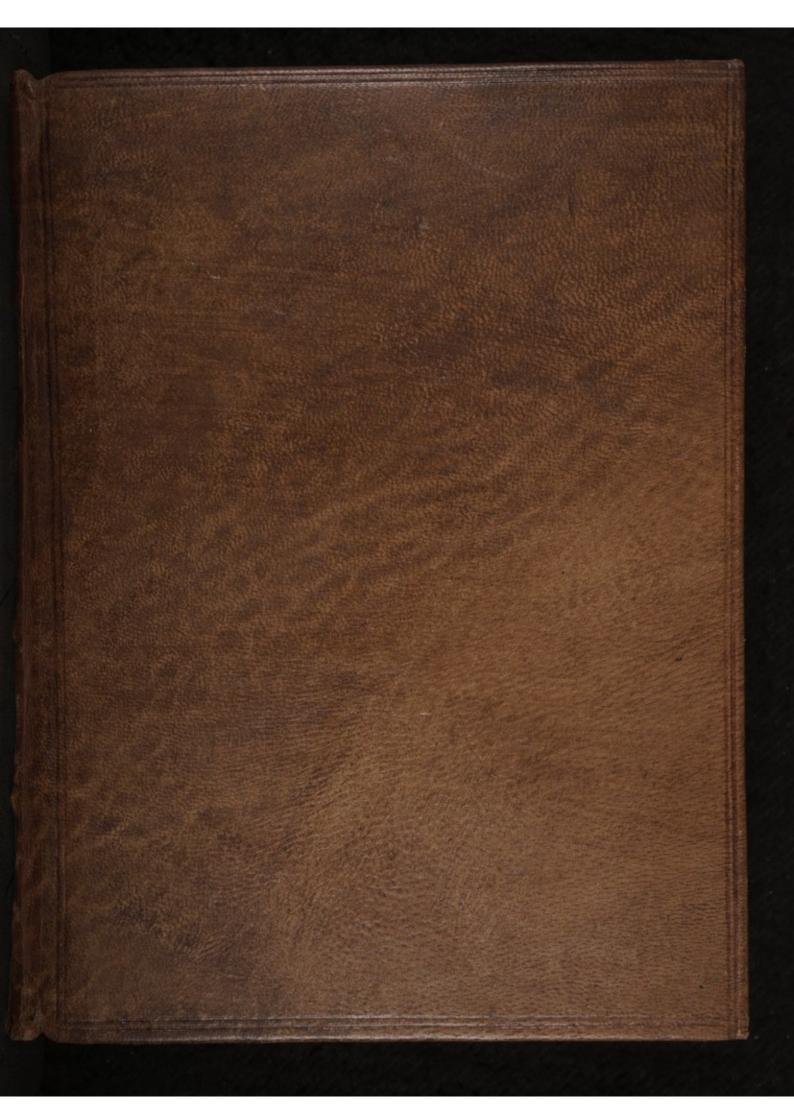
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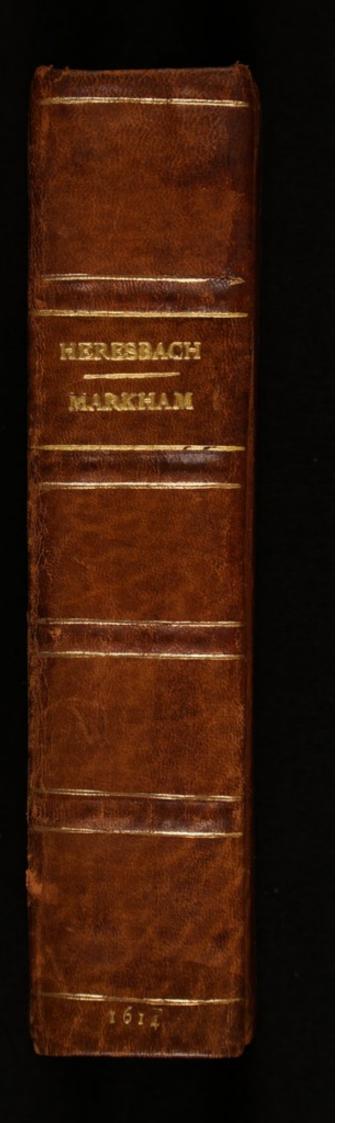
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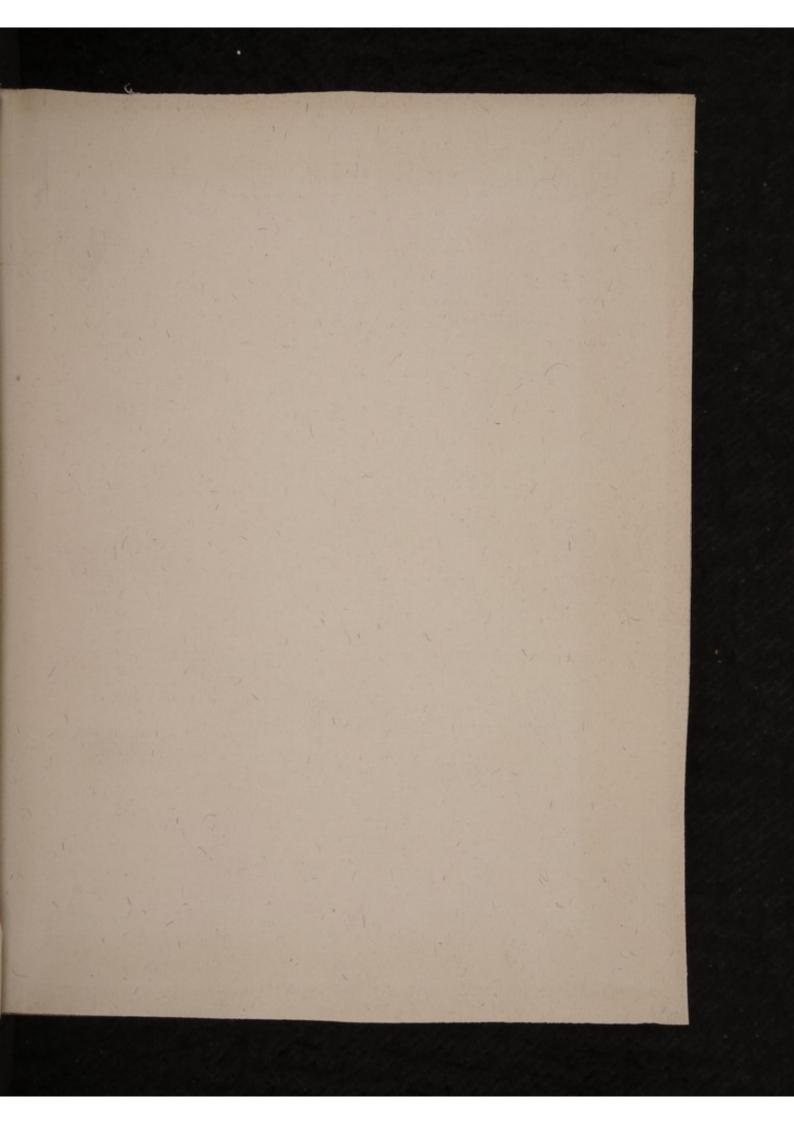


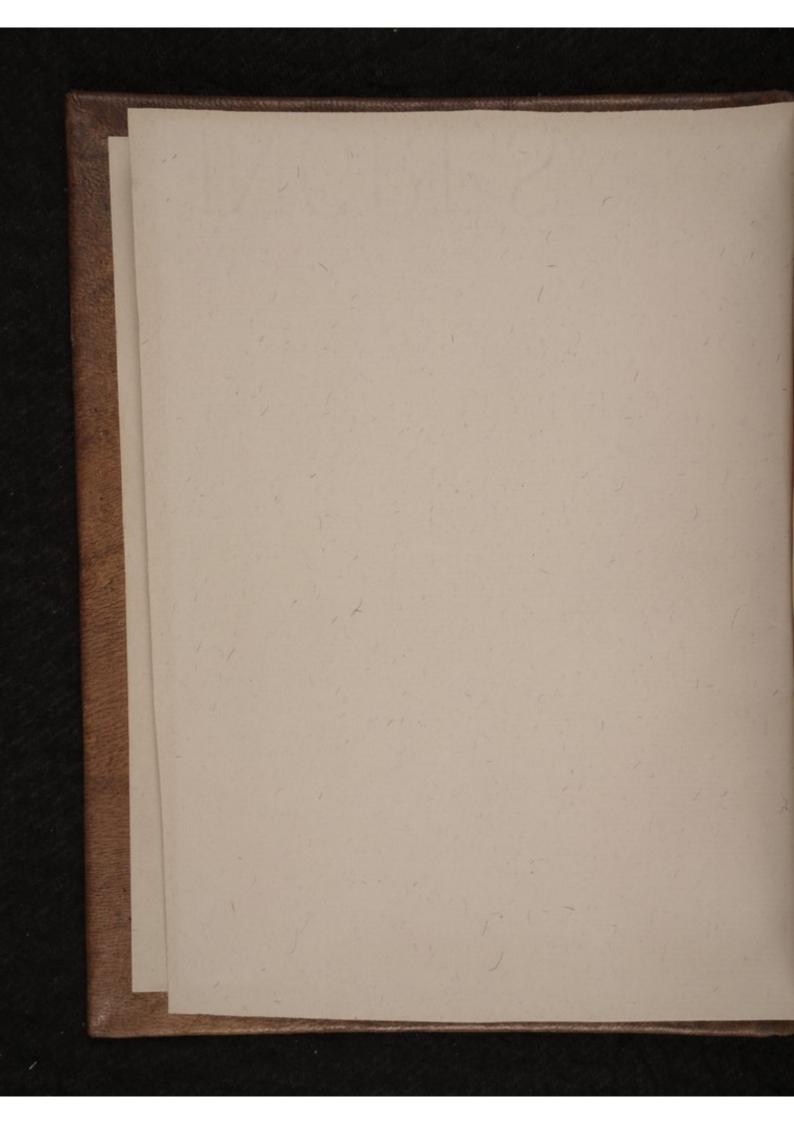


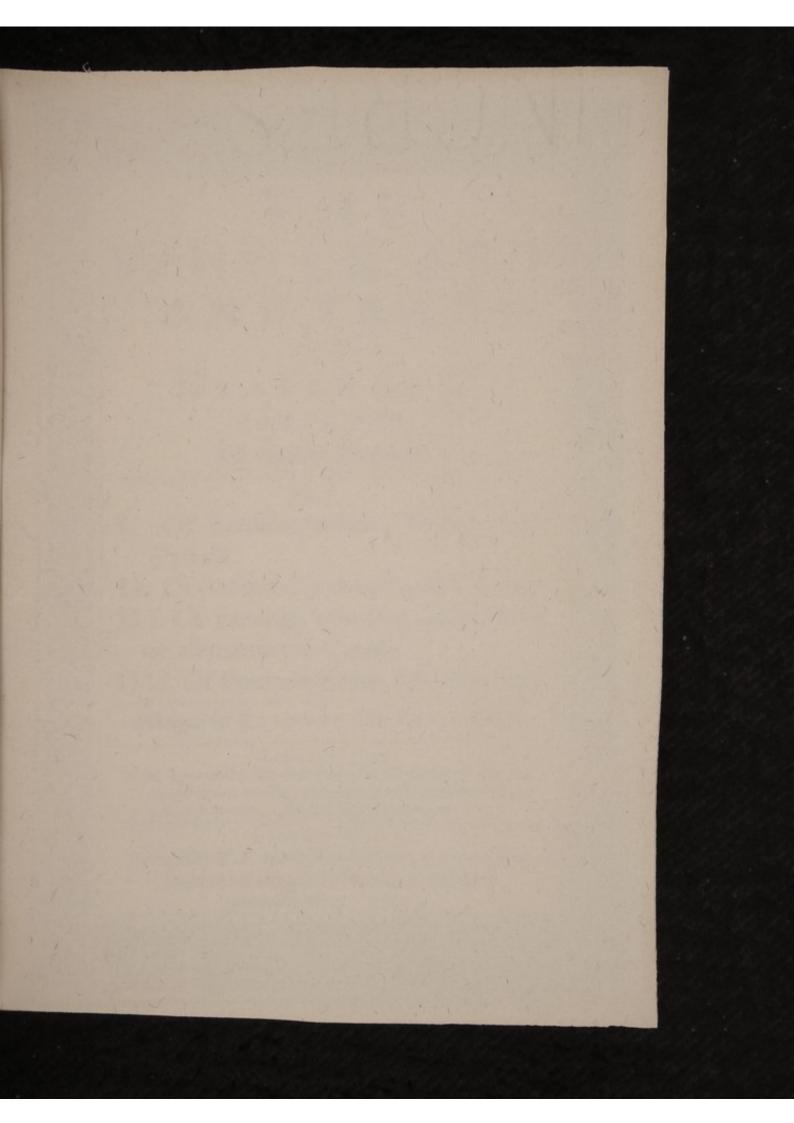




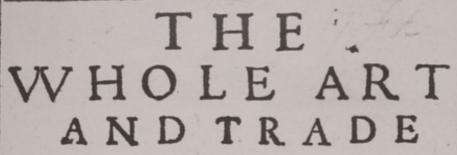
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OF

HVSBANDRY,

In foure Bookes.

#### Viz :

- I. Of Earable-ground, Tillage, and Pasture.
- II. Of Gardens, Orchards, and VVoods
- III. Of Feeding, Breeding, and Curing of all manner of Cattell.
- IIII. Of Poultrie, Fowle, Fish, and Bees.

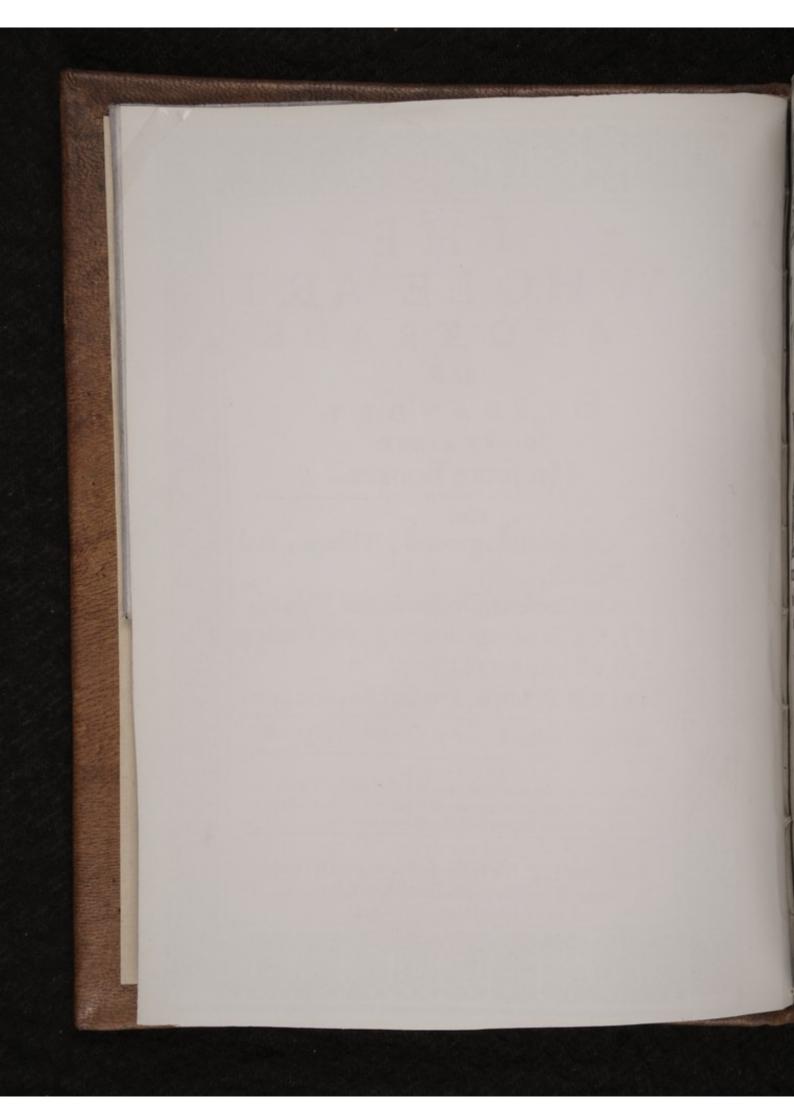
Enlarged by BARNABY GOOGE, Esquire.

GENESIS. 3. 19.

In the sweat of thy face shalt thou cate thy bread, till thou be turned againe into the ground, for out of it wast thou taken: yea, dust thou art, and to dust shalt thou returne.

LONDON:

Printed by T. S. for Richard More, and are to be fould at his Shop in S. Dunstanes Churchyard in Fleetstreet. 1614.

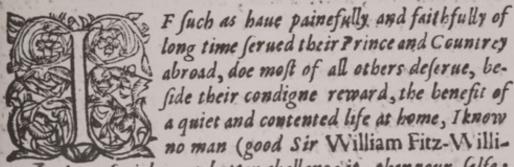




# TOTHERIGHT

VVorshipfull, his very good friend,

Sir William Fitz-Williams, Knight.



ams) that of right may better challenge it , then your felfe: who for the long time of your painefull service, the trustie discharging of the Treasurership of Ireland, and your worthie gouernement, while it pleased her most excellent Maiestie to appoint you for the (ayd Realme her highnesse Deputse) have so behaved your selfe, as even your very enemies (whereof 1 know you had good store) have beene forced to give you, will they nill they, your iust deserved commendation. I leave to remember your sundry and troublesome trauailes, your Gentlemanly minde, alwayes unwearied and unmated with what soeuer perill or hazard bappened: Ipasse ouer (because 1 know you delight not in hearing your prayses) that Honorable, and worthy for euer to be Chronicled, charge ginen vpon the Oneale, at Monham, in the rescue of your miserably distressed and slaughtered companions, and Countrymen, of which there be fundry get remaining, that will attribute the baning of their lines, (nex8 250 3

#### The Preface.

(next unto God) to the prosperous successe of your valiant enterprise: weither hath this your loyall service to your Prince and Countrie at any time beene accompanied, without a feruent and zealous affection towards the Almightie, the chiefest and onely beautie of all mans actions. Since thus (as I fayd) you may instly challenge for the good service you have done in your youth, a place and time of rest and quietnesse in your greater yeeres, and that there is, in my fancie, no life so quiet, so ac. septable to God, and pleasant to an honest minde, as is the life of the Countrie, where a man, withdrawing himselfe from the miseries, vanities, and vexations of this foolish and now 200 too much doting world, may give himselfe to the sweet consemplation of God, and his workes, and the profit and reliefe of his poore distressed neighbour, to which two things we were ebiefely created, I thought it good to fend you here (as a token and a testimonie of my shankfull mind, for your sundryfriendships and curtesies shewed unso me) a rude draught of the order and manner of the said Countrie life, which you may ve (if it please you) for your recreation. And afterwards (if so you thinke it meet) publish under your protection, to the common ditie and benefit of others. Fare you well: from Kingstone.

Your affured louing friend,

BARNAST GOOSE



## The Epistle to the

Reader.



Haue thought it meet (good Reader) for thy further profit and pleasure, to put into English, these source Bookes of Husbandry, collected and set forth, by Master Conrade Heresbatch, a great and a learned Counceller of the Duke of Clenes: not thinking it reason, though I have altered and increased his

vvorke, with mine owne readings and observations, joyned with the experience of fundry my friends, to take from him (as diners in the like case have done) the honour and glory of his ownerrauaile: Neither is it my minde, that this either his doings, or mine, should deface, or any wayes darken the good enterprise, or painfull trauailes of such our Countrymen of England, as have plentifully written of this matter: but alwayes have, and do give them the reuerence and honour due to so vertuous, and well disposed Genelemen, namely, Master Fitzberbert, and Master Tuffer: vvhose vvorkes may, in my fancie, without any prefumption, compare with any, either Varro, Columella, or Palladius of Rome. You haue here let downe befere you, not onely the rules and practifes of the olde auncient husbands, as well Greekes as Latines, whose very orders (for the most part) at this day wee obserue, and from whom (if we will confesse the truth) wee have borrowed the best knowledge and skill, that our skilfullest husbands haue: but also haue ioyned heerewithall, the experience and husbandry of our owne husbands of England, as farre as eyther mine owne observations, or the experience of fundry my friends would fuffer mee. And although I have delt with many, both Graines, Plants, and Trees, that are yet strangers, and vnknowen vnto vs , I doe no whit doubt, but that with good diligence and Husbandry,

#### To the Reader.

they may in shorttime so be denized and made acquainted with our soyle, as they will prosper as well as the old Inhabitants. It is not many ages agone, fince both the Peach, the Pistace, the Pine. the Cyprelle, the Walnut, the Almond, the Chery, the Figge, the Abricock, the Maske Rose, and a great fort of others, both Trees and Plants, being some Persians, some Scythians, some Armenians, some Italians, some French, all strangers and aliants, were brought in as nouelties amongst vs, that doe now most of them as vvell, yea, and some of them better, being planted amongst vs in England, then if they were at home. I have also beene carefull about the planting and ordering of the Vine, (though some of my friends would have had it omitted, as altogether impertinent to our countrie: because I am fully perswaded if diligence, and good hufbandrie might be vsed) wee might haue a reasonable good Wine growing in many places of this Realme : as vndoubtedly we had immediately after the Conquest, till partly by slothfulnetse, not liking any thing long that is painefull, partly by Ciuill difcord long continuing it was left, and so with time lost, as appeareth by a number of places in this Realme, that keepes still the name of Vineyards: and vpon many Cliffes and Hilles are yet to be feene the rootes, and olde remaines of Vines. There is belides Notingbam an auncient house called Chilmell, in vvhich house remaineth yet as an auncient monument in a great vvindow of glaffe, the whole order of planting, proyning, stamping, and pressing of Vines. Besides, there is yet also growing an olde Vine that yeelds a Grape sufficient to make a right good Wine, as vvas lately proued by a Gentlewoman in the fayd House. There hath moreoucr good experience of late yeeres beene made, by two Noble and Honourable Barons of this Realme, the Lord Villiams of Tame, and the Lord Cobbam, vvho both had growing about their houles as good Vines, as are in many places of France. And if they answere not in all points every mans expectation, the fault is rather to be imputed to the malice & disdaine peraduenture of the Frenchmen that kept them, then to any ill disposition, or fault of the soyle. For vvhere haue you in any place better, or pleafanter Wines, then about Backrach, Colin, Andernach, and divers other places of Germanie, that have in manner the selfe-same latitude and dispofition

#### To the Reader:

fition of the Heavens that we have? Belide, that the nearenelle to the South, is not altogether the causer of good Wines, appeareth in that you have about Orleans, great flore of good and excellent Wine: whereas, if you goe to Burges, two dayes journey farther to the South, you shall finde a Wine not worth the drinking. The like is (as I have heard reported by Master D. Date, Embassadour for his Maiestie in these parts) of Paris, and Barleduke, the Towne being Southward, with noughtie Wines: the other a great wayes farther to the North, with as good Wines as may be. But admit England would yeeld none so strong and pleasant Winesas are defired (as I am fully perswaded it would) yet is it worth the triall and trauaile to haue Wines of our owne, though they be the smaller: and therefore I thought it not meet to leave out of my booke the ordering and trimming of Vines. It remaineth now (good Reader) that thou take in good part my trauaile and good will, which vvere chiefely employed to the pleasuring and benefiting of thee, and not to quarrell with mee, as is the manner of the most fort, for every fault and overlight that hath escaped my hands, norto looke for any curious, or well measured stile, wherewith I am not able to fatisfie thee, and though I vvere, yet vvere it neither for the matter nor method necessary. And therefore I trust thou wilt accept it as it is, specially considering, that I neither had leisure. nor quietnesse at the doing of it, neither after the doing had ever any time to ouer looke it, but was driven to deliver it to the Printer, as I first wrote it : neither was I priny to the printing, till fuch time as it was finished. And therefore (though there be faults, and great faults in it) I am not to be charged with them, that if time, or opportunitie had serued, would not have suffered them.

Farewell.

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### The names of such Authours, and

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### The first Booke of Husbandry:

Entreating of Earable-ground, Tillage and Pasture.

Cono. Rigo. Metella. Hermes.

CONO.

trampling of Horses without, goe Hermes, go know what strangers there are.

Hermes. Sir, if my fight faile me not, it is Rigo, the principall Secres

METELLA. A godly matter, scarce you have beene two dayes at home, and now you must be sent for agains to the Court, perhaps to be sent abroad in some emphassage.

CONO. God fozbid : indge the best, it may be he comes

to fie me of curtefie and friendlip.

Rico. Ah maister Cono. I am glad I have found you in the misse of your country pleasures: surely you are a happy man, that thisting your selse from the turmoiles of the Court, can picke out so quiet a life, and gluing over all, can secretly lie hid in the pleasant Countries, suffering vs in the meane time to be tost with the cares and businesse of the common weale.

CONO. Surely I mult confeste I have taken a happy way, if these gods of the Carth would suffer me to enjoy such happinesse, that have bequeathed the troublesome life of the Court

#### The first Booke, entreating

to the bottome of the sca. But what doe you intend, to bying me againe to my old troubles, being thus happily discharged.

Rigo. Pothing leffe, though I would be very glad you should not so hastily socialise the Court, not rid your selfe from the affaires of the Common-wealth. You know we are not borne to line to our selves, not at our owns pleasures: but sot our country, our Common-wealt, that inhereto we are called. There cannot be a worse thing then sot a man to suffer his Country socialism, to come into the hands of villanous persons, and to restore with himselfe, that being out of Cunshot, he hath less the hurly burly of government. And though Cato had no need of Country are not Romand and Sate himselfe, when the friends had no need of Caro had no need of Caro had no need of Caro had no need of

Rome, pet Rome and Cato his friends had neede of him.

Lucullus.

Scipio.

Cicero.

Cono. I grant von as long as veres and Arength will beare it, we are bound to ferue in our vocation: but as you your felfe are driven to confesse, there is sometime a reasonable cause of air uing ouer. Lucullus is highly commended, that while his body was strong & lusty, he applyed himselfe wholy to the service of his country, a that after his honozable feruice both abroad and at home, in the end he got himselfe quietly againe to his boke. And Scipio who after he had conquered both Carthage & Numidia, was content rather to leave of & reft himfelfe, then to do as Marius did, who after so many victories and atchined honours could not content himselfe when he was wel, but pust by with bumeasure able defire of glozy & gouernment, would in his old age contend with youg men: whereby he brought himselfe at the length to most miserable miserie. Surely Cicero toke a better may by much, when after the overtheolo of Catelins conspiracy, he rather contented himselfe to live quietly at home, then by ambitious intermeddling with the contentions of the Common-wealth, to bring himself in danger of his life. The delire of bearing rule in a common-weale, is to be moderated with a bounded modeffie, specially in this age of ours, when Courts are subject to such ennies, hatreds, flatteries, flanders, conetous & ambitious defires, and where no place is left for vertuoufnes & Christian fimplicio tie. These are the things that drone Socrates & Plato from their common-weales, & dolike wife kiepe me, being now of god yeres and ackely, the Court forlaken, in this my pore cottage at home.

Raco:

RIGO. Pea,but age is no sufficient ercuse for pou to leave the governing of your Country. Dou know, Egya viav Bahoè yegovitar, the labour of young men & the counsell of old men, and how those common-weales are safeliest alwayes guided, where old mens heads, and young mens armes are ftirring. Father Nestor got great commendation for his counsell at the siege of Nestor. Troy, where as Pelcus and Lecrees were despited and accompa ted for bench-whittlers at home.

CONO. Some are tickled with glozy: some with gaine, gifts. e rewards, retaine the cockrowen Courtiers, yea fuch as have one of their feet already in the grave. Pow if we would content our felues with this life, & give our felues to the true & perfee life

In Princes Courts we should not gape nor gafe,

Nor ill succetse in sutes should vexe our minde:

No vaine nor fond deuise our eyes should dase, Nor lewd affection should our fancie blinde.

All fuch things should be left and layd aside,

Now lines alas each out of order quite: And to our shame the time away doth slide,

All seeke to liue, but none to liue vpright.

As the Poet excellently well writeth in his Epigram, it were the part of a mad man, or a corcombe, to run headlong without any profit into banger, when as he may live godly a quietly at home without all trouble, as our olde fathers were wont to doe.

RIGO. It is very true: the Poet accompteth him bleffen to whom this life can happen. But in the meane time you are alone, and lead your life with beafts, lowts of the Country, and træs, that have spent all your time before among wife and hos nourable personages. Socrates affirmeth wisedome to be lear Socrates.

ned in Cities, and not among bealts and tres.

CONO. Socrateshis indgement, though 3 will not gaine fap, pet it appeareth by his disputations with Ilchomachus in Xenophon, that he did not disalow the Country mans life. And as for mp liumg alone, it almost hapneth here to me, as Cicero repoze teth Scipio to fay, that he was never lette alone, then when he was alone: for being alone, I have continual conference with the gras west a wifest men: for either I apply my felfe wholp to the facred Dracles 912

The vse of a tolitarie life.

Dracles of the Wrophets and Apolles, who teach the true wife. dome, by which both laines rule, and Princes governe, and by which our fonles (which we chiefely ought to regard) are fed. which also how buto by the perfect way to that everlaffing Court aboue: 02 when I lift, I have the company of the great tell Princes and Monarchies of the world, with whom 3 conferre of the doubtfull frate & gouernment of Common weales. in reading the Histories and Chronicles of the world, travels ling as it were, throughout all nations, or reading the workes of fuch as write in husbandrie, I occupie my minde in the behole ding the wonderfull werkemanthip of God in Tres, Plants, and Beatts, whereby in the Creature, Jacknowledge the Cres atoz. And belides these dumbe companions, my friends come fometimes to fie me, fometimes Bentlemen, fometime Poble men, sometime the Prince himselfe bouchsafeth to bisit mee : so that there is scarcely any day but that some come buto me, forme for their pleasure, some for god will, & some for their bulls neffe: for to my friends and my neighbours, I neither veny my counsel, noz my travel. Therefoze it is very expedient that god choile be made of Lawiers, discreet men for the Countrie, als wayes provided, they give their counsell free & without wages. Dany times belide, you from the Court lend me hither processe and arbitrements to be tried before me. Thus have I in the Countrie liveter and pleasanter company then you have either in the Court oz Citie.

Rico. Tell me then I beliech you, how you bestem your time, and how you are occupied all the day, for I doubt not but you doe as much as in you lieth to spend the time as profitably

as vou may.

Cono. I will tell you throughly, and not dissemble with you, if you will give me the hearing, and to begin, I will be the words and verses of the foresaid Poet, though in other his writings scarce honest, yet in this speaking very grave a wisc.

First served on knees the Maiestie divine,

My servants next and ground I overlooke:

To every man his taske I doe assigne,

When this is done, I get me to my booke.

I ble commonly to rife first of all my felfe, specially in Some mer, when we lofe the healthfullest & sweetest time with fluggithneffe. Aristotle accounteth earely rifing the best, both for health, wealth, thudie. In the winter if I be loath to rife, if eps ther the unfeatonablenes of the weather, 02 fickenes cause me to kæpe my bed, I commit all to my Steward, whole faith & dilis gence I am fure of whom I have fo well inttruced, that I may fafely make him my deputie : I haue alfo Euriclia my maid, fo Chilfull in hulwifery, that the may well be my wines fuffragan, thefe twaine we appoint to supply our places; but if the weather and timeferue, I play the workemafter my felfe. And though I have a baplife as faiffull as may be, pet remembring the old faps ing that the best boung for the field is the Makers fort, the best The best provender for the horse the Palters eye, I play the overfeer my doing for felfe. That it is holfome to rife carely, I am perswaved both by ground is the council of the most grave Philosophers, and by mine owne the matter experience. When my feruants are all fet to worke, and enery fooe. man as buffe as may be, 3 get me into my closet to ferue God, and to read the holy Scriptures: (for this order 3 always keepe, to appoint my felfe every day my talke, in reading some part eis ther of the old Testament of of the Pew:) that done, I write or read fuch things as I thinke most needful, or dispatch what busto nelle fo ener I have in my house, or with suters abroad. A little before binner I walke abroad, if it be faire, either in my garden, or in the fields, if it be foule, in my galery: when I come in, I find an egge, a chicke, a peece of kid, oz a peece of beale, fith, butter, and fuch like, as my foldes, my yarde, or my dairy and filhponds will pelo: cometime a fallat, or fuch fruits as the garden or orchard both beare: which viduals without any charges my wife pronibeth me, inherwith I content my felfe afivel, as if I had the dame tielt dill in Gurope : I neuer lightly fit aboue one houre at my meat: after dinner I passe the time with talking with my wife, my fernants, or if I have any, with my ghefts: I rife & walke as bout mp ground, where I view my works men, mp Pastures, inp Devolves, my Coine, and my Cattell. Wilhen I am in the Countrie, I goe enery day, if the weather be god, and no other great businesse, about my ground: if not every day, at the least once 2 3

once in fivo or three dayes: as often as I come to the Citiescom the Countrie, I doe the like, to buderstand how my ground is hulbanded, and what is done, what budone: neither do I ever go about it, but some god commeth of my travaile. In the means while I behold the monderfull wifedome of Pature, and the incomprehensible working of the most mighty God in his creat Academ. tures, which as Cicero truly affirmeth, is the velicateff foo of the quelt.lib 1. Soule, the thing that maketh vs come nærest buto God. Here waigh I with my feife, the benefits and wonderfull weakes of Tod, who bringeth forth graffe for the Cattell, & grane hearbe Phl. 104. for the ble of man, that he may bring food out of the earth, accord ting to the Plaime. Here he preacheth to me.

The fruitfull Earth that tild in fundry wife, vnto the eye her goodly fruits doth yeeld: The Violets sweet that each where thicke doe rife, and staine with purple die the pleasant field.

The field with hearbes, the hearbes with branches bi zue, The glittering flowers that shine like starres of light,

And springing fast disclose the grace they have,

Each hearbe with fundry flowre most sweet in sight. Withat workeman is there in the world, that is able to frame or counterfeit such heavenly works. Thho could of a flender graffe make Wheat or Bread, and of a tender thrigge bring forth fo no. ble a licour as Wine: but only that mighty Lozd that hath created al things visible & invisible - With these fights do I recreate my minde, and give thanks buto God the Creatoz and conferner or all things, for his great and exceeding godnes, I fing the fong, To thee, D Lord, belongeth praises in Sion, 02, Praise thou the Lord Dmy soule, te. beseiching God to blesse the gists that his hath given vs, through his bounteous liberalitie, to enrich the Fields, and to prosper the Corne and the Grasse, and that he wil crowns the piere with his plent conficte, that we may enjoy the fruits of the earth with thankelgining, to the honour of him, and the profit of our neighbour. Then returning home, I goe to wate ting or reading, or fuch other bufines as I hanc: but with ftudy, or invention, I never meddle in three houres after I have dined. I suppe with a small pittans, and after supper Jeyther seldome

or neuer write or read, but rather passe the time fæing my thæpe come home from the Field, my Dren bragging home the plots with weary necks, in beholding the pleasant pastures sweet p finelling about my house, or my heards of cattell lowing hard by me: sometime I lift to reft me buder an old Holme, sometime boon & greene graffe, in the mean time passeth by me the pleasant River, the ftreames falling from the fprings with a comfortable noise, or else waiting by the Riverlibe, or in my garden, or neerel pastures, I confer with my wife or secuents of husbanday, appointing what I will have done : if my Bailiffe have any thing to fap, if any thing be to be bought or ford: for a good hulband, as Caro faith, muft rather be a feliar then a buyer. Somtimes (fpecis A good ally in winter) after supper, I make my Dinister to tel somthing husband out of the holy Scripture, oz elfe fome pleafant fozy, fo that it muftrather be honelt & goody, and fuch as may eothe. Two or three hours af, be a fellar ter supper I get me to bed, and commonly, as I said besoze, the buyer. late in the house, except my Thambelaine and my Steward.

RIGO. In the meane time being farre from the Church, neither can you heare the Sermons, not be prefent with your wife and your household at service : for your owne part, though pe may supply the matter with reading pet your wife and your fernants can not fo dec.

Cono. For my part (without vaunt be it spoken, I have fernice every day at certains appointed houres, where preacheth to me daily the Brophets, the Apostles. Balil, Chrysoftome, Nazianzen, Cyril, Cyprian, Ambrole, Austen, and other excellent preachers, whom Jam fure, I heare with greater profit, then if I hould heare your fir John lack-latines, and folish feliowes in your Churches. My wife also being given to reading, readeth the Bible, & certaine Plalmes, translated into our owne tonque, if there be any thing to hard or darke for her, I make her to bus deritand it: belides, the hath prinate prayers of her owne that the vieth: in the meane time I have one, that byon the holy daies (if the weather or our busines be such as we can not go to church) readeth the Golpel, teacheth the Catechilme, and ministreth the Sacraments when time requires : but in the Sommer time, if the weather be not unreasonable, wee goe alwayes upon the

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Sundapes

Sundaies and fellinall dayes to our Parish Church, where we heare our Curate, and recease the bleffed Communion : as for mp household, I bring them to this order, that thepalwates ferue God before their going to worke, at their comming to meales. ing of faint It is written of Anthonic the Ermite, that being bemaunded of Anthony. a certaine Philosopher how he could in the solitarie inibernesse without any bokes, occupie himfelfe in the fludie of Dimittie: he answered, that the whole world served him for bokes, as a well furnished Libzary: in which he alwayes read the wonders full weakemanihip of God, which in every place stood before his epes. In the like fort have I my household feruants well inffrus ded in the chiefe grounds of true Keligion, who leaning to their becation and innocencie of their life, not carried alway with the vaine entifements and pleasures of Cities, do behold the Maies Rie of Cod in his workes, and honor the Creatour in his Treas tures, not onely boon Sundayes, but enery day in the yeare, where they may also heare the little birds, and other creatures in their kindes, letting out the glozy and Waiestie of God.

RICO. Bou fæme to tell me of a Schole of Dininitr, anot of a Pulband-mans cottage: this was the very order of the Pas

triarkes, and the monasteries in the Primative Thurch.

CONO. Indiede Chrysostome would have all Christians, Homil. 56. marted folkes and bnunarted, to lead their lines according to the rule and order of Ponkes: but of fuch Ponkes as lived in those 16. of Mat. bayes, not such good-fellowes as ours be now: for the profes sherplaces. from of a Donke in that age, was no other but the life of the purest and perfectes Chaistians, which kinde of life the olde Batris

arkes, as the Scripture doe witnesse, did lead. Rico. I oftentimes wonded, that having so godly a house and so well furnished in the citie as you have, what you meant to defire rather to divell in the Countrie : but now that I fee the

god order of your life, I leave to wonder any longer.

Con of It is naturall to me, and left me by my parents, to delight in hulbandzy: for my Father, my Grandfather, my great Grandfather, and as farre as I can fetch inp petigre, all my Auncestours were occupiers of hulbandzy, and were all bozus and died in this house that you lie.

RIGO

RIGO. Fremeinbernot long fince, being in bufineffe with the Chauncelioz Hypsographus, a sober man, pour neighbour, and one that delights in hulbandry, it was my chaunce to fee your father, furely a man would have taken him for old Lacrees in Homer, or rather for Abraham, or Isac, and as the Chancellor told me, he was foure-fcoze and ten peres olde : but fo faire he bare his age, as that I twhe him to be scarce fiftic, his memory and judgement fæmed to ferue him wonderous well he would talke of the orders of the Countrie, of the antiquities there as bouts, of the Rozies of the Scripture, to fwetly and eloquently, as I was wonderfully in love with him : hechao the Waophets and the Quangeliffs at his fingers ends, fo that I faw the noble men had him in estimation, not without great cause.

Co No. Inded he twhe fuch delight in the holy Scriptures, as no day pacted him without reading some part of them: he vied to goe commonly enery day to the next Parith Church, neither would be mille any Sermon that he could heare of, he brought both Preacher and Priest into order, and caused them to frame

their lines according to the rule of the Gospell.

RIGO. Dou paint me here the patterne of a Bilhop, oz an ouerfer : indeed the most part of these Priests had need of fuch onerfærs to reffraine their conctonficite, the spring of all their

abuses. CONO. To returne to my quiemes, or my Husbandry, from whence 3 digreffed: doe you get maruaile how 3 can delighting felfe with this so honest and profitable a quietnes, then which in the inogement of the holicit & wiscli men, there is nothing more honest nor better, neither is there belide any trade of life more The commiet for a Gentleman, nor trauatie more acceptable to God, then mendation is the tilling of the ground. The people in the old time (as Cato, a of Hufman of great wifedome, a teacher of hul banday doth witnesse) bandry. as oft as they would give a man the name of anhonest man, they mould call him a good hulband comprehending in that name as much commentation, as they could give him : beades most Emperours mightie kings and Emperozs were no whit ashamed so professes this trade, as Xenophon reporteth of king Cirus: the like writeth of Hul-Quintu Curtius of Abdolominus, Numa the king of the Romans bandry.

bare.

bare a fingular affection to hulbandep, for that hee thought there was no kind of life to fit to maintaine either peace of warres, of for the provision of a mans life, being rather a giver of good life, then riches. Dozconer, Hiero, Philometor, Attalus, Archilaus, and a great number of Princes more, were delighted with the profession of husbandry: this knowledge is also highly commended by Homer, the very fountaine in his time of wildome, where as bee describeth Alcinus the king of the Pheaces, whose velight in the planting \* pleasures of his occhards was wonderful. And Lacrics the olde man, that with his continuall occupping of hulbanday, brought his mind better to beare the absence of his son. Hesiodus in his worker egyw xai nuegov gineth great praise to Altrea, that being banished the city, gave himselfe to the life of the countrie: yea, the ground hath before time bin tilled by the hands of Emperozs, the Earth in the meane time, rejoycing to be tozne with a victorers share, and to be plowed with the hands of a tris umphant conquerer, either because they dealt with the like regard in their feed, as in their warres, or vied fuch diligence in the come fields, as they did in the campe, or elfe because all things handled with honest and vertuous fingers prosper the better, being more carefully loked to. Serranus when he was called to hos nour, was found fowing of fied. The Dictators office was brought Cincinatus by the purceuant to Cincinatus, being all naked & beimeared with Iweat and duft. The purcenants had first their name of calling Denators and Gouernoss out of the Countrie to the Citie. In like fort had this name at the first, the Fabij, the Pisons, the Curi, the Lentuli, the Ciceroes, the Pilumni, and other auncient houses. Horace telleth, that of husbandmen have bene bred the valiantest and worthiest fouldiers: affirming, that the hand that hath bene bled to the spade, proueth often of greatest value in the field. Homer reporteth agreat valiancie in Vlifles his neat hear o, in the flaughter of those fellowes that would have ranished his mis men come Arelle. Spott certaine it is, that a great number of Emperours to be Em- have spring from the plow And to let others goe, it is knowne that the Emperous Galerius & Maximinus came both from pope Heardmen to the imperiall dignitie. The like is written of lufline, Constantianus, Probus, and Aurelianus. The Rogies report,

that

Husbandperours.

that M. Curius the Empereur was found in his house boyling of a rape rote, when he refused the great sums of gold brought by the Sammits Emballadors. What Mould I speake of the antiquitte of it the holy Scriptures declare hulbanday to be the and quite of cientest of all trades. And to begin with the very beginning of Husbanman, that neither Oficis, noz Dionifius, were the first founders dry. of this knowledge, as the Painims fable, but that the most migh, tie Lord himselfe did first ordaine it: for Adam and his sons were all hulbandmen, Noe mas a planter of bines, Abraham, Isaac, and The fielt Iacob, were thepheares, Saul from his Affes, a David from his Vines. Hep, were called to the crowne, Elius & Amos of thepherds were made prophets. Ozias as we read, professed husbandry. Iefus the found of Syrach commending hulbanday abone the reft, faith, he customably vied himselfe to hald the plow to drive the cart, a to kæpe eattell:but what nied we moze? Dur Saufour Chaift hims felfe glazieth to be the fon of ahulbandman, g frameth his paras bles of planting of vines, of thepe a thephearss: mozeover, as it isin Luke, our Lord fremeth to be a teacher of husbandry, where he theweth, that trees are to be digged about & bunged, that they may prosper the better. For siththis knowledge is of all other most innocent, without which it is most plaine we are not able to line: the best men have alwayes imbraced it, and the old far thers have ever counted it very Tolen-Derman to lufedome. Cicero calleth it the Dittris of Justice, viligence, and thristines : some others call it the mother and nurse of all other arts. For Husbaninhereas we may live without the other, without this we are not mother & able to sustaine our life: belides, the gaine that hereof ariseth, is nurse of moltgodly, and least subject to enuy, for it hath to deale with the all other earth, that restozeth with gaine such things as is committed bus Aris. to her, specially if it be furthered with the bleffing of God. The onely gentlemanly may of encreating the house, is the trade of hulbandry: and for this cause they were alwayes accounted the perfected Gentlemen , that, content with the liaing their Auncestozs left them , lived in the Countrie of their Lands, The wornot meddling with figging, chopping, and changing, not fix, thincle of king their lining by handicrafts. M. Varro in his time, fayth, dry, there was great complaint made, that the Fathers forlaking the Plough and the Sichle, began to crope into the Towne,

and buffed themselves rather with Pageants and Didsommers games, then with the Uincpard of the Field, whereas the Gouernours of Rome to benided the pare, as they affigued onely the ninth day for businesse of the Citie, etherest of the time for the tillage of the Countrie, whereby being hardened with labor in peace, they might the better be able to abide the travaile of warres. Which countrie people were alwayes preferred before the people of the Citie, and moze Pobility thought to be in them that till the ground abroad, then in those that lining idely within the walles, spent their time bnoer the havolv of the penthonse: except a man will, with the common fort, thinke it more honek to get his living with the blod and calamitie of poze foules, oz not daring to deale with the swood, to make his gaine of mars chandize, and being a creature of the land, contrary to his kinde, give himselfe to the rage of the Seas, and the pleasure of the Windes, wandering like a bird, from those to those, and country to countrie, or to follow this goody profession of bawling at a barre, for gaine to open his fawes at every bench. Surely, as I faid before, this onely hath bene ever counted the innocentes trade of life of all men, and in all ages. 13p hulbandzy were made rich the godly fathers, Abraham, Lot, Iacob, and Ioab, and most certaine it is, that this profession & this gaine is most acceptable to God, when hee commanded Adam to till the ground, and to gethis living with the sweat of his brownes Thus is husbandey of fuch authority, as God with his open witnesse hath allowed it, and afterwards by his fernant Moles hath added his bleffing buto it, saying, I will give the ground my ble Ming in the firt yeere, and it Chall bring forth the fruits of three yeeres. And againe, If you will kéepe my commanndements, I will send you raine in due feason, and the earth Mall pield her increase, and your trees Mall be loden with fruit, the threshing time shall laste till the vintage, and the bintage hall endure till the folding time, a you thall eat your bread with plenteoutnes. What can there be now more pleasant to a Christian man, than to get his living by such meanes as he knoweth both please God, and to play the Philos sopher in the moutsweet contemplation of the benefits of God, and to acknowledge and reverence the wifoome a power of the Diuine:

Genef.3.

Husbandry pleafing to God. Lcuit.26. divine Paieltie, and his bounteoulnelle to mankinde, to give thankes and praise for his godnelle, the very hearbes and creatures in the field in the meane time preaching unto us.

RIGO. Pou frame me here of a hulbandman a diume, and almost bring mee in minde to become a hulbandman, who almaies hitherto with the common fort, accounted this hulbands

rie to be a beaftly and beggarly occupation.

CONO. What divinitie there is in it, and what a field of the acknowledged benefits of God, you have heard. That the common fort doe thinke it a beaffly and beggerly kinde of life, it is no maruell, fith the common people do neuer indgea right, The common people doe wonder at the pompe of the Court, and judge them for the happiest men that deckt with gold and purple, are in greatest fauour with Princes, and Officers, and Councellors to them, little knowing in the meane time what heapes of foromes lies his bnder that braue & glittering milery. The common fort preferreth thamefull and beattly delicatie bes fore honest & vertuous labour, toying to confume the night in dunkennes, lechery, and villany, and the day in Ciepe & pastime, thinking such happy as neither behald the riling not fetting of the Summe. But those that are of founder judgement, account the hulbanoman most happy, if they knew their owne felis citie, to whom the Carthin a farre quieter maner doth minister a lufficient living.

And though with gorgeous gates the building high, With earthly greetings alwayes doe not flow,

Nor feeling garnisht gay with imagrie,

Nor rich attire wee see, nor costly show:

Yet stedfast state and life vinskild of guile,

With wealth ynough and Pastures wide at will,
And people strong traind up to paine and toile,

And youth with diet small contented still,

Where Godly zeale and vertues all did dwell,

When luftice last did bid the world farewell.

As the Poet hath most gravely written in the praise of the Georg. 2. husbandman. Aglus Sophidius was judged happy by the Dracke of Apollo, because he occupied a small corner of Arcadia, but yet sufficient

sufficient for his livelod, where he spent his life without ever comming abroad: whose order of life sheweth, that he was new ther vered with greedy or sire, neither with any other trouble of minde, as Pliny witnesseth. But I holde you to long with commendation of that which of it selfe is sufficiently commended.

Halv, wife, I pray you let be goe to dinner.

METELLA. Pouthall fir by and by. God morrow matter Rigo, I thought Xenoplucus had beene here, who vieth to fetch my hulband away, he hath by chance bene now at home a weeke or twaine, which some misliking, prefer him to most painefull and troublesome busines, procuring him to be sent in embastage beyond the pillers of Hercules, and (which they should be loath to beare themselves) they cast all whom his backe, as a common packhorse, who being now old, reason would he would be spared and suffered to be in quiet, that being at the last free from the turnoiles of the world, he might give himselfe to his prayers, and prepare himselfe for heaven.

Rigo. It were more for the benefit of his Country, that maker Cono came oftner to the court, but he is the seldomer there, because he taketh such pleasure in his husbandry: howest, I came so, no such purpose, but onely to visite him, being my old friend.

CONO. Boumust beare with a womans babling.

Rico. A pray you, fince it is not yet dinner time, let be walke about, that A may view your house till dinner be readie.
Co No. If it please you, I will thew you my house, where I

have appointed my kingdome.

RIGO, Pow surely you have as happy and as pleasant a

kingbome as may be.

Who is happy.

CONO. Indied I confessemy selfe happy in this, that contentsing my self with my pose estate, I desire no mose: for as he saith.

Horace.

The man that most doth heere possesse,
Thou canst not justly happy name,
But he whom God with gifts doth blesse,
And well doth know to vie the same:
Him maiest thou rather rightly call,

A happy man aboue them all.

Hurely I, in this my kingdoni, of rather pose cottage, am more happy

happy then a great fort of kings & princes of the world, that are lozos of many & large dominions. Kiches are not to be measured by their multitude, but by the mind of the postestoz. And as Da- Who is rick. uid faith, a little is better with the godly, then the great riches of the wicked. Cincinatus occupied only 4.acres of ground. Socrates having but 20. Parkes in all the world, was counted a rich man. So 3 with Virgill doe commend great pollettions, but had rather occupie little. Therefore loke not to fe here the house of Lucullus of Hyrcius, inhich is faid to be feld for 4000000. HS. fuch fately dwellings & marble flores, as Cicero faith, I despile.

Rico. Potwithstanding, here is all things faire, and as

it appeareth commodioully built.

CONO. For my part, I build my house, as they say, accorbing tomy purle, agreable tomp calling, tomy living. I will thely you in order how I have call it, following the adults of Ifcomachus in Xenophon, whom Cicero both greatly commend. And first, the feat of my house hath mooned me to build it after The order of this fort. Cato would have a man long in determination to building of a build, but to plant and fois out of hand. Dur fathers here be house for the fore, observed the same, and sæmed to follow the councell of Countrie. Cato and Columella, with whom agreeth also Plinie, that the owner buildhis house in god oader, so as neither the house be to great for the land, nor the land to much for the house. And heres in it is written, that L. Lucullus, and Qu. Scauola, were both to blame: for one of them had a greater house then was answerable to his living: the other, which was Scavola, built a smaller house then his living required, where both are unprofitable to the mas ter: for the great rumous house, not only is more chargeable in building but also asketh greater cost in the maintaining. Again, if the house be tw litle, it will be a destruction & losse of pour some and fruit: therefore it is greatly to purpole, in what fort wie build & ozdaine our house. Caro would haue the house so feated, as the ayre be good about it, and (if it may be) placed at the bote The feat of a tome of a hill, loking biredly South, in a wholesome corner. house, Va ros minde is, to have it placed toward the East, that it map have the hadow in Summer, & the Sunne in Wlinter : with Inhom Columella agreeth, laying, that if abilitie, ferue the feats IS .

is to be wished in a holesome place (for Cato, as thall hereaster be theired, would have healthy standing chiefely regarded) with a fruitful mould, some part of it champion, some hilly, lying Cate or South, well watered and wooded and standing not farre off from some haven, or nanigable river, to the end he may cary and transport such things as him listeth. Cornelius Tacicus writeth that the Germans were wont to build their houses, as the hill, the River, the Mod, or the Lake, would best suffer them.

RIGO. Hereof I thinke sprang at the first so many surmames as are at this day derived from Pountaines, Rivers,

Lakes, and Woos.

CONO. It may be, pet others no counsaile, in no case to fet pour house niere a Warth, oz a great Kiner : foz the Fens and Parthes, in the heat of the yeare, do fend forth pettilent and beadly bampes, and a great number of benomous creatures: which dying, for lacks of their olde moisture, infedeth the agre, and bredeth fundry and ftrange difeales. Homer affirmeth bery truly, that the ayze which in the morning commeth from the River, is very buhollome and dangerous : and therefore if the house must needs be built niere a River, they would have such hede taken, as the River rather Cand on the bancklide of the house, then befoze it: and that the frunt of the house be turned from the hurtfull & buholefoine winds, and placed towards the healthick quarters. Since all waters commonly with dampily vapours in Sommer, and Minking colo milts in Winter, ercept they be well purged with holesome Windes, do infect both man and beaft with pettilence: best is it therefore in goo & healthy places, to let the house toward the Galt, or the South, in sue spected aires to place them against the Porth. From the Sea it is good to beas far as may be, because the winds that blow from the fea, are unholesome, and the spacelying betwirt you and it, pælos allvapes a loathfome aire. Dou must belvare besides, that you let not your house by any great hie-way, left you be moles fted with passengers, and troubled oftentines with more guells then you would have.

Neighbourhood.

Rigo. As far as I remember, old fellowes did measure the gwones of their dwelling, by the qualities of their neighbours.

CONO.

Cono. Pou say very well: indeed That almost forgotten it, a froward knaue to a mans neighbour, is not one of the least mischiefes, as thalbe layd in the end of this boke. I have knowne fundap god men, befirous of quietnelle, that haue fogfaten god owellings, rather then they would abide the injuries and trous bles of fuch companions: wherefore Hesiodus had some reason in laping:

As great a mischiefe is a froward knaue, As is the joy a neighbour good to have.

But you maruell what I meane by fuch a long preamble, fures ly I am the longer in this matter, because you should buderstand the reason of building of my house. For whereas there are sunday purposes of building; some buile for pleasure, some for wans tonnelle, and some for necellitie, I thought it good to recite the minds of the old writers, concerning the building of a house. And when as every one will not fuffer fuch curiofitie as they require in the placing of a house, some building upon riners, some with out or within the March wals, who cannot thun the neighborhoo of the river of the fea, some in lakes, some in woos, & some buils ding bpon mountaines, are driven to supply the defeat of nature with art & industrie: I my felfe, fith I can by no means auoid the nærenelle of the river, do læke as much as in me lies, to turne as way the discommodities; and because I feele the discommoditie of the rising of the floos, I have let my house in this place without the banks, a mounted it as high as I could: and left the rage of the mater, and force of the ife Mould beare it away, I have plans ted round about it great tres; and that I might thun the damps of the ground, and the blacks of but hollome winds, I have turned my dozes and my windowes to the wholfamelt quarters.

Rico. Surely, either you, or your ancestors have both come modioully and handlomely placed this houle; for the front is bous ble, one part loking towards the Gaff, the other towards the South, and to built with Galeries and Gables, as it both receiv ueth the Sunne in Minter, and the Madow in Summer : befides, you have a faire Porch as you enter in, that keepeth away

the minde and the raine from the dwie.

CONO. All the one five, if you marke it, where the front is,

lieth South, receiving from the first corner, the rising of thesian in Winter, veclining somewhat from the West, whereby it is warme in winter, and not troubled with over-great heat in some mer: for this kinde of building hath an equal medly of the winter windes stommer windes, so that it receives the cole winds in sommer, and is not subject to the bitter blass in winter.

Rico. Some part of the building, me thinketh, is after the

Italian manner.

CONO. Some part of it being ruinous, I built after my fancie, and such as I found sound, I thought enough for mee to keepe in reparations.

Rigo. I pray you, proceed to describing of the rest. This base court seemes to be after the Italian fashion, with two gates.

Cono. This Court I thus deviced my selfe. Here was a kind of Court before, but not so commodious: therefore I made a square wall here with a great gate, for the bringing in of my carriages, a lever for people to passe in a out. In the void place here besides the porch, I have made a little walke, covered with a Aine, with divers seats in it for shadow, where I many times walke a talke with such suters as I have: I have in it a table of some to sup upon when I am disposed. Duer against the gate, as you see, at the south side of the Court, there is a Bake-house, a Corner will, with Duens sor bread, so ther baked meates, there is also a Brewhouse, with an Dasse sorying of walt to make borre with.

RIGO. Surely, all very handlome, and in very god order.

Cono. These offices (for feare of fire) you see, are all severed from the house: there is hereunto adiogning a faire Mell, which befives the service here, both also serve my kitchin, and other houses of office: for within the house, I have neither Mell nor Fountaine, which is a great discommodity, such as I would give a great deale of money to remedie, both for health & colenes in sommer and for watering my Bardens & Drehards. Water is one of the principalest things to be cared for, as the greatest cause of health both in man & beast: but this want is supplied partly by a god Mell without, & partly by Testernes, receiving the raine water that fals in certaine Conduits and Pipes, which water is most wholesome for the body; and beside, the river is not far off.

RIGO.

Rigo. Come on I pray you, let be fee this back-house, I beare that you have a new fathioned Will, of your owne denise.

great need of Cozne milies, and the common Milles, being farre off, the way foule, and I at mine own libertie to grind at home, or where I lift, thinking to make a Mill here at home, when new ther place nor authoritie will ferue me to build either a water mill or a wind mill, and a Duerne, or a hand mill, both but a little god: and to build a horse mill were more troublesome. When I saw the wheles that they be to draw water with, turned with Asses or men, I thought in the like sort the whele of a mil might be turned, a after this sort deuised I this engine, which a couple of Asses, guided by a boy, doe easily turne, and make very fine meale, sufficient for mine owne house, and most times for my neighbours, whom I suffer to grinde toll free.

Rico. Surely I like well your denice. What will not the

diligence of man bying to palls?

Cono. I finde it profitable buto me, but because it is not the speciest way of grinding, I have beside a horse-will, which if need require, is turned about with a Lade or two.

Rico. Lo, here is a great lead placed handfomly in a brick furnace in the corner, which I thinke ferueth to brew withall.

C o N o. Indeed, to that end it is most occupied, but it serveth other turnes beside.

Rigo. There is a Hopper (me thinketh) over the top of the Daft: where to serveth it?

Cono. It serveth to convey downe the Malt, after it is was tered but the hairecloth, where it is dayed.

RIGO. Waherefoze ferueth that great Tunne ?

Cono. To water the Barley in . when need is, otherwise it serneth so a mash sat. Hereby is a bake-house, and a pastric with two Duens, one serving so household bread, the other so manchet so mine owne table, and so tarts and sine bakemeats. Here are also troughs to keepe meale in, and troughs to lay leaven in, and there is a faire table to mould by on.

Rigo. All is handsome: but what meanes this building

about your Court ?

Cono. These buildings severed from the rest, do serve for guest chambers, with a chamber for my hot house: this side you see lieth against the setting of the Sunne in Summer, where the Sunne may lie from none till night.

Rigo. But that little Ile moated about, and senered from the court with a bridge, seemeth to be more gorgiously and sumpetuously built, I take it to bee your owne lodging, where you,

your wife, and pour feruants, meane to lpe fafely.

Cono. It is even lo, and therefore it is built byon a higher ground, both for the better agre and fagrer prospect: beside, my Garden and my Drehard are adiogning to it, which with the street smell of the slowers, and the faire beautie of the trees, brungeth both health and pleasure. The windowes, for the most pact open all Cast, and some Porth, very sew West, except from such chambers or galleries Southward, where I dine and sup, to receive the sume in winter abundantly, and in summer very little: the Tower that you see serveth for my Done-house.

RIGO. The great flights of this house must needs fill the

Mailters purfe, and ferue the Bitchin well.

Cono. Inded, if as that noble and passing well learned Varro affirmeth, they might be sold, as in some ages they have beine, at eight pound a payze, or that a man might meet with such soles, as Columella writeth of, that have given 40. pound for a paire: I graunt I could make a good handsome gaine of them, but as they be, they hardly serve mine owne table.

Rigo. What both not the mad desire of delicasse procure : enen in our daies of late, I have heard, there was threscore

Flozens giuen foz a payze.

Cono. I will keepe you no longer here about mine owne lodging, you have feene a great number of better houses, and peraduenture had rather overloke my out-houses.

Rico. I had fo indeed: you have, I fie, deutded your house

into the parts.

mp husbandmen, and the third for graine and fruit.

Rigo. What meaneth this Tell here, so handsomely built

at the entrance :

CONO.

CONO. This is, fir, my Bailiffes lodging, 3 lay him by the gate, that he may fee who goeth in and out, and what is brought and goeth forth: from thence he map also loke into the kitchin. and fee, & heare what is there done: for befide the meate that is breffed, there are other things done there in the Winter moznings. Duer my gate I have late my Steward , from whence he may loke into the Court, and to the gate, and overlee his neighbour the Bailiffe.

Rigo. Parry fir, here is watch and ward indede, this I

thinke, you learned of Varro, for it is a part of his order.

CONO. Thus experience teacheth. Wereby is my Mozehouse. Rigo. Mercifult God! what a fort of twies have you here? Cono. Hefiodus would have a husband have all his furniture ready, and will not have him borrow in any cafe.

Of others borrow not, left they refuse to lend,

So thou shalt want, the time shall passe, and busines neuer end. Therefore I have to furnithed mp Bailiffe, as he hath of every fort two. Marcus Varro divideth his hulbanden necessaries into thee parts: vowels where he puts his owne fernants, and fuch as he hireth: halfe vowels, where his working cattel be: a mutes, be thefe that you foe, whereof the smaller fort be thefe, ares, hate chets, and fithes, of all forts, come fithes, graffe fithes, flubble fithes, handbils, fickles, knines, pealeholies, spades, shouels, wedges,draghokes, great lawes, leffer lawes, hand lawes, time ber lawes, pitchfozkes, iron hokes, iron fozkes, twybils, boung forkes, tonges, theares, fpfars, mattockes, files, cleavers, ciafpes, launcets, ftrings, cutting knives, gelding twics, clipping theares, leavers, preffes, rulers, garden-rakes, hammers, chippe-ares, winches, pullepes, wheeles, rakes, fingle & Double, polics, collers, bridle reins, headstals halters, trances, cords, Haames, Baskets, Fannes, Wibips, Flayles, Strikes, Spoakes, Dzawing kniues, Sackes, Mallets, Bottels, Medhokes, Bakes, Dempebe. tels, Dictaues, Symoles, Wharls, Firechonels, Firectones, Bredfrons, Handbarrowes, Doung-Carts, Whielbarrowes, Maunds, Hampers, Kopes, and Line, of all forts.

The forts and parts of Plowes and Waines, I will thefu you when wee come into the Court, wert the Paybarne, Pog-Theos.

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Opens, Tunnes, a Tlessels, so Wine, Bere, and Mater, Pipes, Tonnels, and such like, chall likewise be chelucd you, when you come to the Brewhouse, and incleder: with Colerakes, Sines, Sercers, Boulting, tubs, Boulters, that you chal se in the Back, house, and instruments so all other purposes, laid by every one in his place, till they be to be occupied: for it is very necessary to have of every sort time, as the number of your servants and no cessitie requires, that if one be lost or broken, you be not driven to goe a borrowing, or to leave your worke, whereby your men chalbe idle, while your twees be a seking: for to runne every day to get new, is not for a husbands prosit. Beside in the mean time your servants loiter, and lose more then the value of their twics.

Rico. Ernely they be all placed in good ogder.

Cono. I place first by themselves, such as are most in vse, that they may be the readier, a next to them, such as be occupied once a moneth, or in a yere: I give the keeping of them all by tale, to my selvard or my bayliste, that they may deliver them out as need is, and lay them by againe, and charge them in any case to loke to them every moneth, that they may mend what is amisse in them.

Rigo. Deder is a folly fellow, and no godlier a thing in a man, then to do every thing oederly, and to lay up every thing in such oeder, as it may readily be found: of which, a lingular erample doth Iscomachus thew in Xenophon, in his Phinician barke, wherein a wonder it is to see what a deale of Auste hee had be stowed in so small a vessell: he carried with him all the furniture that a man should nied, and every thing in such oeder placed, as they were at hand when nied was, without any trouble.

on o. I my felse have an inventory of all my hulbandry interplements, and so hath my Baily and his iniscinny Steward hath the key of the Assebouse, and delivers out and receives as I told you, what every man nixes: for I willingly neither borrow nor lend: I have a neighbor or twaine of whom sometime I borow, and lend againe: but except them, to none, as Caro teacheth me.

R 1 G 0. The same Caroalso, as I remember, teacheth to know a mans husbanday by his twies, therfore by your great number of twies, a man may guesse you have a great deale of occupying.

CONO. The double number of them makes the mucker the

greater: otherwise, if there were but to serue the turne they would not sæme so many.

Rico. I pray you goe forward with your description.

CONO. Pou le a voyd rome befoze the Bitchin, which is an entrie both to the Bitchin, to the Folkes chamber, and to the Dre-houses, so that if any missostune happen to the cattell in the night, my men may speedly helps them.

Rigo. The Kitchin is very well handled, in that you have The Kit-

so well pargetted the rosse.

Cono. It is because I have a great number of servants, subject for lacke of other come, doe dine and suppere: beside, the pargetting or sking, is a god safetie against fire.

Rico. Here is a good handsome rose by the chimney, well kozed with red Herring, Bacon, and Martilmas bice, there is

also a handsome Sincke by the Kitchin.

Cono. This lettiled wall that you lee, to yneth to my Bay. liffes chamber, so that hee may lie what is done in the Bitchin, and about the house. Deceunto is also topned my Larder, a bault Larder. with thee rames, one feruing for Butter and Wilke, the other for Bere and Wine, the third for to keeps Fleth in : here have I no windowes to the South, not to the West, but all to the Porth, and to the Caft, because these quarters are leaft subject to corruption, and will longest preserve any thing. Above in the loft ponder, doe I lay my come, byon a faire flore, closely fenced Corneloft. and fieled against Dife, receining the light by Lattise windowes from the Dorth. Bard by, is another loft very close, with like Appleloft. windowes toward the porth, feruing for my fruit: for that quarter is colo, and not mort, whereby it preferues belt, both Deat, Come, and Fruit. Powifyou will goe through this doze, von map behold the back-fide of my house : loe here a faire three thing flore, whereupon my corne is fundry times threshed, fanned, and winneled, and many other things done, chiefly in the winter mornings, though I have befide a threshing place in mp barne. On each fide are lodgings for mp Scruants and other romes and lofts for Straw and Fodder for my Cattell: and there by the Stables, are also Servants lodge ings on every fide, and my Maides chamber neare the Mitching 23.4

and the walking house. Pou see this forestall closed round about. to the end that the cattell, when they be watred and put forth, while their houses be made cleane, may be in safety. And here I keepeallo Beele, Duckes, Peacockes, Turkicockes, a other pouls trep. It is as you lie, so enclosed with ftables, barnes, and other houses, that nothing can get out. Varro will in any case have two Courts, an inner court with a little pond in it of franding water. of running water, in manner of a filhpond, and there he would have Horse and Dren, comming from the field, or stable, to be watered and walhed, a to ferue like wife for Shape, S wine, and Diese. In the otter Court would hee have a lake to cast in wheeles, staues, and pecces of timber, for instruments of husband day, that they might there be feasoned. This Tourt he would have often framed with fram, and chaffe, that being trampled with cattell, it may ferue to lay opon the ground. Dou fee in this court a double dounghill, one of them newly throwen out of the Rables, an other old, and ferning for the field : for new doung is nothing to god as the old, for manuring of the ground.

R 1 G o. Withat meanes thefe twigges, bowes, and Crawes,

caft bpon the boung ?

CONO. This preferres the doung, that the supce that the ground requires, be not sucked out of the sunne: and hither also runs the water from the Laundry to most it the better. Varro would have here also alonging for servants: But least we tarry two long among the dounghils, let be goe set the other buildings about the Court. These great romes that you see, be Barnes to lay Come in: in some places they be houses, in other sagaine, stackes, set by on props, which they call mowes: but the houses are a great deale better. Pert to the Barnes, are the Stables, standing arow round about the court. And because Virgil would have the stable stand toward the South, and Virguius, neare the fire, I have followed their order in building my stables. And first have I set here my stable sor my cart-horse. I have another stable neare my owne lodging, sor my horses of service, and hackness.

RIGO. That sæmeth to be very handsomely built.

Cono. The next are houses for my thicke, a next them for kine, calues, and heyfers. There is a hogitic with two romes, one

Barnes.

Stables:

for my farrowing fowes, the other for Hogs, and boares. There is also a third the, not farre from the walhhouse, for the fatting of my Borkes: every kinde hath their keepers lying neare them, that they may be at hand what somer channeth. Last of all, there stands my Daybarne, which bath in the upper romes my Day. E beneath, waines, carts, carres, waggons, coaches, harrows, flees, plowes, rowers, wheles, naues, pokes, rakes, plowbeames, and fuch like, which are there lake from wet, and from pilferers.

Rigo. I pray you, who doth loke to all this geare, and

keepeth enery man to his worke ?

Co No. Dy Bailiffe, as I told you befoze, overfeth both my worke and my workemen : belides. I have a Steward that low keth to the receauing of my revenues and commodities.

Rico. Dour bailiffe had need to be a fkilful and trufty man. Cono. Don far true, for as Xenophon faith, the chorse of a Bailiffe and a Philition ought to be one: you must chose such a one, as being a very expert hulbandman, map wel be able to take The the charge, and not to be ignozant of those things himselfe, that he choise of a commandeth others to do, for nothing is well taught or learned, husbandry without example. For as Cato faith of a hulband of the old Campe, it goeth ill with that mafter whom the Bayliffe must teach. As Iscomachus being demaunded of Socrates, whether hee would buye a Bapliffe, as he would hire a fmith or rather teach him himselfe at home ? We answered, he would have him of his owne teaching.

Rico. But this is after the old world, wherein no man was buffilfull: but it is a wonder, how you that have alwayes beene brought bp in princes affaires, could in thefe dapes when berp few, ercept plowmen, and fuch as hane no other trade of life, have any faill in it) apply your mind to buto it, as a man would thinke

pou had never minded any other profession.

Cono. Surely, I think he that never have a god Bailiffe, that is not able himfelfe to tudge failfully of him: nog let him euer thinke to have his worke well done, that knowerh not how, nor which way things ought to be done, but must be faine to learne of his man: for there is none can inoge of a worke, but a worke man. Therefore in the choyle of a Bailiffe, I would have foure things

What things ought to be in a Bailiffe of

things chicfly confidered: that he be louing, viligent, meet to rule, and truftie, tif you will adde a fift, I am well contented, that is, that he be not given to dzunkenneise: for a dzunken man lwseth with his memory, the regard of his dutie. I do not enquire wher husbandry ther hee have bene brought by civilly or daintely, but I would have him a hard fellow, brought up from his childhod to labour, and one that were throughly well failed, of a meane age, that he be not unwilling to worke for youth, nor unable to trauaile for. age. I would have him have some skill in carpentrie, that if there happen to be any thing broken about his Stables, his Carts, or any other his instruments, he might speedly mend them, & that he could mend Wals and Wedges. I would have him also not bushilfull in the diseases of Cattell: such a one as hath beene brought up with skilfull husbands, will proue metelf to have charge. For there be a great number, that though they be Chilfull enough in their profession, vet have they not government in thembut eyther ving to much tharpenedle, or to much gentlenes to wards such as be buder them, doe hinder the profit of their mas Art: and therefore I would have a Bailiffe well tried before he be taken: neither is it onely to be fought, whether he be skilfull in this craft, but whether he be truffic and louing to his Wafter. without which, he is not worth army, though his fkill be never so great. And chiefely he must be skilfull in this, to know what worke is meeteft for every man: for some works require frength moze then skill, and others, otherwise. And therefoze in appoint ting of thefethe ought to have great indgement's good discretion. which hee cannot have, except he have god faill. Therefore a Bailiffe is as well to be taught, as a Smith, or a Carpenter: and the knowledge of hulbanday is greater e of moze difficultie: Wherefore I mervaile, that in this so necessary an occupation, there are found to few Walters and Wentices.

Rigo. Derhaps the tedionshesse and hardresse thereof defi

neth them away.

Cono. Why: have not Deatoes bene likewife deiven as map ? foz, as Cicero faith, there hath bin no perfect Datoz found. Rigo. Df whom would you have your Walliffe to be taught? CONO. Pour question is goo, I will thew you, though very feur few have taught what belongeth to a husband in all things, neis ther thall you kinde many fkilfull in every pount. Therefore he that Mall be a Bailiffe, mult be taught by degrees, he mult first begin when he is a childe, with keeping of Sheepe or Swine, and The traywhen he is cloer, with droues of Cattell, and keeping of Porle: Bailiffe. he must learne next to bigge, to thresh, to set, to some, to hedge, to build, to mend fuch things as are broken, to play the butcher, to give drinkes and medicines to ficke Cattell, and fuch other like things. And thus must be proceede from one to another.

RIGO. Don hew mee wonderfull Philosophie.

Co No. As I faid at the first, his best age is betwirt thirtie and theescore: for the flames of lufty youth beginning to abate, he will not be so hot in his woing: for whiles he followes that came he will have no minde but of his minion neither shall any reward be so welcome buto him, as the fruit of his fancie, noz any griefe fo great to him, as the failing of his defire. If he once passe theescore, he wareth sothfull a brable to labour : for I hav rather have the worke of a painefull & biligent Bailiffe, then the feruice of a great number of flothfull lubbers: as he that had ras ther have a Lion captaine over Barts, then a Bart captaine over Lions. This muft chiefly be loked buto (fince earely going to worke is a great matter) that the Bailiffe be a god rifer, that, supplying his Batters place, he may be first by in the morning, and the last that goeth to bed, that he fee the deozes fast locked, and enery man in bed, that the cattell have meat enough, a be weil littured, that he fet forward, according to the time of the yeere, fuch as do lopter in their laboz, that he himselfe go luttily before, that he fuffer no man, after it is day, to lag behind, but that they follow the Bailiffe luftily with a courage, as if he were their caps taine in afkirmith: and that he ble fundap deuiles to cheere them by in their labor, sometime to helpe him that fainteth, to take his toole out of his hand, & labour luffily before him. And as a carco full hispheard, earely carrying out his thispe, & bringing them home late, looketh that he leave none of his flocke behinde him: to likewife ought a good Bailiffe to carry out his men, to have good regard ouer them. If any of them be burt or ficke, let him looke to the drelling of them, and if they be very ficke, to carry

#### I he hrit Booke, entreating

them to the ficke folkes lodging, a to fee that they be well order red: and to that ble have I built ponder house that you fee remoneo from the other buildings, that the ficke may be had thither & loked buto, specially if their diseases be contagious, least other thould be infected. It is the Paisters dutie to have such regard of the health of his fernants, that their fickenes may be prevented by god medicines & god loking to: as to lie that their meate and dainke be wholefome & god, and given in due feafon : befice, that the Bayliffe cate his meat with them, and not by himselfe, inhereby it shall be the better ordered. And because Phisitians are not alwayes at hand in the country, it behoueth to vie fuch remedies, as experience hath taught, fluch as have holpen others of like diseases. Those that labour in the Sunne (because the Sunne hurteth the body & vaines) their diet muft be the thinner, that they make not to great meales, but eate little and often: this order kæpeth them in health, & helpeth digestion. Some do ble to give Mozmewod- Mine, or pottage made of Mozmewod. It is very necessary for them somtimes to recreate themselves, so that in the meane while they give not themselves to naughtis nelle. There must be heed taken, that they dainke not when they be hot, noz lye bpon the cold ground: if their water be not god, it must be well purified. It is very good also to let them drinke barley water. Memult remember that fernants be men : bes fides, such good loking to, will breed a greater good will a dutie, and lightly they will serve the faithfuller and better when they have their health, which have had good cherrishing in their fickes nelle: and belides (which is not well observed in greater gouers nors) the Bailiffe must beware that he deale not twernelly, nor tw gently with them, that he alwayes make much of thosethat be viligent & painefull, that he be not to halfie with the worfer fort, that they may rather renerence him for his feneritie, then hate him for his crueltie, which he thall easely bring to patte, if he rather bemare that they offend not, then after their offence, tw late, to punish them. For there is none so god a bridle for an euill desposed person, as to let him alwayes be occupied. So that Caroes faying heerein is most true, that men in doing nothing, learne to doe euill. Let them have their allowance, and their meat

meate in due leafon, let them alwayes feed together in one place, and the Bailiffe with them, that he may be an example to them of all thriftines. If he finde any of them to have laboured paince fully and truly, let him give them a good countenance, and encourage them with rewards, to make them the willinger to dee their dutie: belide, let him looke that they bee rather well clos thed, then curioully apparelled, that their garments may keepe them from the colde & the raine : let their wages be well pated them, that the want thereof be no excuse for them to logter in their labour. And as meat and apparell is necessary for them, fo likewife is correction. For the wife man faith, give a Horle the whip, an Alle the fnaffle, and a foole the rod. And againe, hie that deales too gently with his fernants, shall make them in the end Aubborne and froward. Aboue all things let him fee that they feare God, let him in no wife luffer them to lweare, or to blafpheme, not to ble filthy or bugodly speech : but let him prouide that they bee instructed in the Catechisme, that they ble prayer, that they goe to Sermons boon the holy dayes, and receive the Sacraments at times appointed, that they be not hunters of Alehouses or enill company. For, as the Poet layth, it is law. full to be well occupied, even on the feltivall daies. When they have ferned God, & dined, let them walke abzoad in the ground, let them looke there be no Cattell in the Come, and Stop such gaps as they finde open, and looke that their Tattell be in lafety abroad. To be Mort, the Bailiffe must in all these matters be, as it were a Bildop, or a Patter of the workes, to thail every man the better doe the worke that belongeth buto him. The Wailiffe mult neuer be from their heles, leaft in his absence they fall to loptering , neither must he suffer them any time to be idle: he himselfe must not be given to drinking or gaming, nor to hunting or filhing, ercept for his malters profit: let him very feldome entertaine any gueffs, ercept they be of his mafters retinew: let him not bestow his masters money about his owne merchandize, for such kinde of bargaining makes him the flacker in his dutie, and maketh his accompts seldome fall out iuft. About all things this is to be willed in the Bailiffe, that he do not thinke himselfe wifer then his matter, or suppose himselfe to have more skill then he

he hath, a that he alwaies leke to learne such things as he is ignorant of. For as it is very profitable to do any thing skilfully, so is it more hurtful to do it untowardly. Columella had rather have a Bailiffe that could neither read nor write, so that his memory be god: for such a Bailiffe (saith he) will oftner bring his Pais ster mony, then a boke: because (not able to write) he cannot so The Bay-easily frame a false account. The Bayliffes wife must alwaies lifted write, be with him, that she may keep him from running at rovers, and may helpe him in his labours: her age must be such also, as we required in the Bayliffe before, the must be painful, healthy, carefull, a honest, the must not be to ill savored, less she loathsome but him, nor to beautifull, less he doat to much upon her, and keep home when he should be abroad. She must in the meane

faries, and give them their allowance.

Rigo. Dou fame to me here, to make the Bapliffe a Dais

time loke to the kitchin, and to other works at home, governe the Daides, and keepe them at their works, loke to their neces

fter, and the Maifter a Bapliffe.

CON O. This age of ours, quite corrupted with delicacie and vaintines, little regardeth the honest a profitable orders of our force fathers: for in those dates the Baifters themselves plato the bul bands, a thought it not to goe well with that Baifter that muft he taught by his Bayliffe, as Cato witneffeth, a Varro alfo coms plaineth, that the hufvands in his dates had forfaken the ploin & the fithe, a gotten themselves within the walls, and spent their time rather in maygames & miolummer lights, then with tilling the ground, or planting of Wines. Therefore Caro & the old wais ters, do attribute many things to the Daifter, that we aligne to the Bailife. And J. though I feme to put the charge of the houls hold in the hands of my Bayliffe, vet wil I my felfe be ouerfeer, and have every thing done as Jappoint, entreating gently (as I taught the Baplife afore) both the Bailife & my labourers, regard Ding moze their labour then my gaines. But I carry you about to long being falling. I pray you let us goe to dinner: you hall not dine at Court to day, neither meant I to thely you, as you fee, the palace of Lucullus, but the pore cotage of Cincinatus, Abdolominus, or Lacres. Here you le the romes for my hufbandmen, **levered** 

fenered from mine own house, but yet so, as I may easily se what they doe. Here 3 and my wife, with our household sernants lie.

RIGO. All very excellently well as may be, there is nothing wanting that is to be wilhed for. Wilfrisse Metella, pour trouble your felfe to much, like Martha, about the prouiding of pour dinner.

METELLA. Pot a whit Sir, you must be contented with Countrey fare, you hall neither haus red Diere, Parchpaine, noz Sturgion, noz any Courtiers fare : but an Egge, and a Sallet, a Pullet, oz a pece of Lambe.

Rico. This diet contenteth me aboue all other.

CONO. Fall to it then, and tell me how you like our countrep Mine.

RIGO. Surely it palleth either wine of Deleans, or Aniow: 3010 not thinks to have found fo god a cup of wine in thefe quarters.

CONO. The hulbandry, and good feafon of the peredoth

vield the fame.

RIGO. Well, we fit too long at binner : the weather being fo faire and fo pleafant abzoad, it is a thame to fit any longer, but

to walke out and loke bpon your ground.

CONO. The weather being faire, pour bring a horse to the field (as they fay) when you speake to me of going abroad: for 3 mp felfe, if the weather or bufineffe bo not let me, am enery day, according to Catoes countel, abroad in my ground : # if it pleafe pou. I will carry you abroad and their you my ground. You must not lob to fee the great countries of Merellus, 02 Lucullus, but the polletions of a poze country man, that contented with his frate would be as he is a would not change lives with the Emperour.

RIGO. I pray you let me heave your opinion of the field and Of the tilthe tilture thereof: for 3 fe you area perfect hufband, and nos ling and thing bulkilfull. I have a great defire to heare some rules, and husbanfuch as ferue our turne beft.

Cono. If it bee a thame for an apprentife at the Law, and a ground. pleader of causes, to be ignozant of the law wherein he dealeth, a greater thame is it for a profettor of hufbandry, to be bufkilfull in the around whereon his whole tradelyeth. How is he able to subge buzightly in hulbandzy, that knowes not which way to till hig:

ding of the

nature of the huf-

The de-

forts of

ground.

his land: The profestors of all other arts, do commonly keepe to themselves, such things as be the chiefe mysteries of their knows ledge. Contrariwife, the hulbandman rejoyceth to have every bandman, body made priur to his fkill, & being bemaunded in what fort he both this and that, he gladly declareth his whole dealing in every point: fuch god natured men doth this knowledge make. Thave ordered my ground here, according to the diligence of the old fas thers, rather then for the wantonnes of these times. Therefore I will first thely pour their opinions, and afterwards mine ofone grees and fancie. First, Cato appointed nine begrees of the land in Italy. The first, the Timeyard, that peeldeth much and good wine: the next the well watered Garden: the third, the Williow Grone: the fourth, the Dline tras : the fift, for Deddolv: the firt, Come ground : the feauenth, for Copie ground : the eight, for Timber tres : the latt for Daft. But thefe tegres, as Varro fapth, are not generally allowed of neither have we the vie of them all in these countries: but make most account of such land as ferueth for Barden or Dechard ground, Come, or Filhponds. Df Come ground I will first entreat, and afterwards of Pasture, Dedow, Of Come Wood-land, and Willow Brones.

ground.

RIGO. I pray you then take the paines to thew the nature

of it, and which way the best ground may be knowen.

CONO. Caro counteth that the best ground, that lieth af the foote of a mountaine, being levell, and lying toward the Sunne, as the whole countrie of Italie lieth. In coide and Portherly countries, it is good to have the land lying Call and South leaft thefe two quarters, being bard off by any hill, the land be frozen with colde: but in hot countries it is better to have the ground lye Porth, both for pleasure and health.

RIGO. They lay it is needfull to know the conditions of enes

ry ground.

of the ground.

Cono. It is lo, and looner thall you doe it, then the condi How to ! tions of a man: for being well tilled, it will not deceine you, but know the deale justly with you. To know the nature of every ground, goodnesse Iscomacus in Xenophon, both will you to marke well the plants and the vield of the Countrie, except you will loofe your labour or fight with God. Varro counsels vou to looke whether there

bein the land either Stone, Parble, Sand, Cauell, Raddell, Chaike, Llay, Prebie, or Carbuncle, that is, ground ouer heated and parched with the funne, which will burne the rotes of whats foeuer commeth in it. Also ifit be wet og wæping ground, og subted buto other inconveniences, and fuch ground also, according to the nature of the foile is good or enill. In some Countries Conie ground is altogether barren , specially for Corne and Fruit: In other places againe, they ble from s in the manuring and bette ring of their land, as in certaine places of Arden is to be fene. Theophrastus writeth, that the Corinchs to cast away all the Renes out of the fields of Sarragola , there by made the ground the worfe, when, the Kones being away, & the country bot, there was no fuccour left to befend the ground from the extreame heat of the funne. In other places in Conte and hilly ground, Dtes do profper well. In like fort alfo, in all Countries we mult regard the lapze of the Countrie, and the nature of the fied that we folve: for Granell in some places, is cast byon the ground in stead of dung, flome things prosper best in gravelly grounds. In Barbary (as Columella both inititeite) the bery rotten lands erced any os ther ground in fruitfulnelle. It is also something to the purpose, whether the gravell be white, red, oz pellow: befides, some ground both Deceive both with colour and quality. In fome Countries the blacke mould is onely effermed: in others, the fat red mould is thought beft. In England, the chalkie ground beareth god come. and pastures very well. In some places the thicke and the clams mie ground is most fruitfull. In all thefe it is to be learned, what is best for the hilly ground, what for the vally, what for the tilled. inhat for the lay ground, what the moift feggie ground requires. and what the day and barren. Also in planting, what ground is belt for Mines, what for other trees, what delights in brie ground. what in moil ground. Virgil commendetha mellow ground that is fat, and will some be resolved, for such ground is tilled with fmailest charge and labour : the nert, that which is fat and Riffe, which greatly recompenseth the hulbandman his travaile and charges : the world is, that which is dape, leane, and fiffe : for both it is tilled with great labour: and belide, neither answereth in his crope the hulbandmans transile, neither forneth it for god medbolo or patture any time after, and therefore fuch ground is not

ground.

Signes of not to be meddled withall. Also, the godnesse of the ground is the good- easily perceived by perfect tokens: for a clod sprinkled with a little nes of the water, if in working with the hand it be clammy, and cleuing, and Micketh to the fingers like pitch, when it is handled, as the Post fagth, and breaketh not in falling to the ground, this Weweth a naturall fatnette and richnette to be in it : belides, pou may know the mould that is god for Come, if it beare Bulruffes, Thifties, Thireleaued graffe, Danwort, Brambles, Blackethorne, and fuch like, as never grow but in good ground: as on the other fide, lothsome and ill favoured weedes, veclare a leane and a bitter ground: Ferne, and withered plants, a cold ground, fad and hear uie coloured, a moift and a wet ground: a raddel & a fony ground, is discerned by the epe, a fiffe and a tough clap, by the labour and toile of the Dren. A good token is it also of good ground, where the Crowes & Pies follow in great number the Plow, fcraping in the fleps of the Plotoman. The goodneffe is likewife knowen, if at the Sun letting, after a Kainebow, and in a Mowze of raine, following a great drought, it peldetha pleasant saueur: also in tate it will appeare: if taking a clod that hath bene watered in an earthen veffeil, you finde it fiviet, it is a figne of rich ground, if bits ter, a great token of barren ground, ifit be faltith, it is to be thurs ned, and not to be bled bpon the dounghill. Dou muft remember alfo, that ground will fometimes change, and of fruitfull become barren, which hath bene fene, as Plinierepozteth, in the old time in Thellalic, and in our time, in fundap places of our Countrey. Beffde, one kind of ground, though it be neuer fo fertill, will not The dispo- beare all things, as the Boet wifely noteth, Ne ferues one ground fition of for every crop. Dozeover, the disposition of the Beauens is a great matter, all Countries have not the weather and appealike: wherefore it is the part of a good husband to know the nature and propertie of his ground, and to marke the disposition of it for euce ry part of the pere: he must ails consider what trop is best for eucs ry layer. Some ground ferueth for Corne, some for Wines, some for Difues, some for Deddow, some for Patture, neither may all things wel be fowen in rich ground, not nothing in barren ground. Such things as need not much moilture, are best sowen in light ground, as the great Caluer, Sperie, Chich, and the other pulles that are pulled and not sut. Those that require moze sustenance,

ars

Ground llivy change.

the heavens to be obserued.

are folone in richer ground, as Pot-hearbs, Wheat, Rye, Barly, Lin-fied. Some of them doe good to the ground the piere fole lowing as Lupines that are bled to be fowen for the bettering of the ground. There is difference also to be put betwirt fruits for pleasure, and such as be for profit : as fruit tres and flowers, and fuch things as peld both pleasure and suffenance, and are also profitable to the ground. Pou must chose for Willowes, Digres, and Redes, a wet and a marriff ground, and contrary where you will have Come & Pulse, that delights in die ground: Sperage and fuchlike, must be fowen in thadowy places, and other ground for Duicklets, Timber, Maft, and Fewell: yea, fuch ground as is very gravelly and barren, hath his ble, where you may plant Birch, and fuch like, and watry grounds where you may fet Ab ders, 1520me, and Bulrufhes.

Rigo. Surely the temperature of the agre, both much in the fruitfulnes of the ground, for I have oftentimes marked, that one kind of ground is moze fruitful in one Countrep then in another.

CO NO. In Venefri, the granell ground beares Dlines beft, where as about Granado, they require the richest ground that may be. Withen in other places the Time both not profper bery well in Conp grounds, about the Rhine the very ragged rockes Dee pelo as feuttfull Mines as map be fene. Plinie doth witneffe, that in some places the Mines doe grow even in the Fennes and Marthes, fuch a fecret force is therein nature. About Chalcia, an Iland about the Rodes, it is faid there is a piece of ground fo fruitfull, that they mow their barley being fowed in his feafon, and their Croppe, fow it againe, and gather it with their other graine. The Albanoyses receive the fruit of their land απαρτα ngs avngora, butilled and busowen, and being once sowen, it piels beth his croppe that peres together. Homer calleth Phriges αμπελοέαςαι, & Argos πολύποςου. Hedorutus inziteth, that Babilon is fo fruitfull as the ground pelbeth increale two hundred & three hundred fold. Plinie affirmeth, the increase in his time to be fiftie, e to god bulbands an hundred fold. About Monte Gibello it is reported by credible persons, to be an hundred fold. Italy is so fruit. Italy, the full, that Varro calleth it the garden of the world, because it is so the world. fertile & wel planted in enery place. Campania, being ful of come: Apulia, plenteous with wine: and Venefri, abounding with Dyle.

Rico. I have heard fay, that Germany's France have not bene in times pall very fortill, and that they have bene altegether without Tlines, a new we fix no country more fruitfall, that piels deth greater abundance of all things. Where can you Ende better wines, then about 15 auger and the Phine : I speake not of their The fruit great Rose of graine, Wines of gold filuer, iron, and lead. In the fulneffe of countrie of Thurin in Germany, it is layd, that after wheat once Germanie folven, the ground will pield Kie of it selfe two gieres together.

Barbary.

CONO. Dea, and in our Countrie here, we have ground that will beare Wheate energy ere. Nape-feed being once fower with bs, both oftentimes yeld his Crop two peres together, without

folding or labouring.

RIGO. Ander the Porthren Wole, it is reported the ground is so fertill, as they sowe in the Morning, and reape at None. In The fruit- Barbary, where the ground is low, they plant buter the Date tre fulnelle of the Dlive, bnder the Dlive the Figge tree, bender the Figge the Pomegranate, bnder it the Uine, bnder the Uine they lowe Wilheat, and binder wheat Polic, all prospering one binder the others hadow, and pedding their fruit the same pere.

Cono. That made me to fap, that the ground followes the

disposition of the heavens.

Rico. But fith in all places the ground is not of like goods nelle, what if we chance byon a leane and a barren around, as heathy, brufly, and granelly ground: may thefe be made fruitfull, and mended by Art ?

CONO. Merely well, there is no countrep that the most grav tions Lozd bath left without fufficient pield, if labour and tranell

benotrefused.

Rico. That skill I would gladly bnderstand.

Of dunging of ground.

Cono. It is brought to passe diners waves, principally by bounging and diligent labour : and to this end foruethole heapes of doung that I lately thewed you.

Rico. I pray you let me know what boung both most ene

rich the ground.

The forts

CONO. Varro and Columella his follower, appoint the forts of doings of doings: the first of Woultry, the next of Den, the third of Cats tell. Of the first fort, the best is that which is had out of Douce houses, the next is of Pulline, all other fowle, except Gele and Duckes.

Duckes, which is hurtful. The people in the old age had fuch fore of Boultry and Fowle, as the doung of them luffiled for the manus ring of their ground. The next to this, is mans ofdure, if it be mirco with other rubbith of the houle: for of it felfe it is to hot, and burnes the ground. Pans vine, being fire moneths kept, and Vrine. polized bpon the rotes of Apple tres and Uines, bringeth great fruitfulnelle to the trees, and giueth a pleasant talte to the fruit. In the third place is the downg of Tattell, whereof the best is the boung of Alles, because this bealt both chaw with most leasure, whereby his meate being well digefted, is made the profitabler boung. Pert to this is the boung of Shiepe, nert of Goates, then of Dren, and Horses: the work of all of Swine, very hurtfull to Come, but bled in some places for Barbens, for lacke of other boung, but is a great bieder of noylome weeds: pet Plinie fæmeth to allow it, as the filth of a filthie creature. The doung of Horles likewife, where the Borles are fed with Barley, doth bred great Hoze of mieds. The Lupine, before he beare his cod, is most come mended, being turned up with the Plow or Pattocke, and layd in bundels about the rotes of Trees of Mines. Where they have no Roze of Cattell, they ble to mend their ground with Araw and Ferne, with the Kalkes of Lupines, and the branches land toges ther in some Ditch : hereunto you may call Albes , the filth of finkes and printes, and fraw, with duft and other things raked to gether: but in the midit, you must lay some sound matter against the breding of Adders & Snakes: allo Demlockes, Walivort, and the waves growing about willow Tres and Ferne, with other fuch rotten wedes, pou may gather and lay bnoer your Shape. They that dwel in Granelly and Deathy grounds, doe take the Turnes of the Garth and the Death, and laying them in heapes powdzed with alittle doung, fuffer them to lye and rot, and after lap it bpon barren ground, but specially where they keepe great Boze of Shape, they call into their folds fuch Turues pared from the ground. Columella counts them but suill husbands, that have of enery one of the letter kinde of Cattel, lette then a Cartload of Old dang boung in 200. dapes, & each of the greater lost ten load, believe belt for filth and durt of the yard. This is also to be noted, that the dung Corne, that hath line a yeare, is best for Corne, for it both is of sufficient doing for Account, and breedeth leffe weedes, but boon Deodow and Pas Meddow.

Aure.

finre, you must lay the newest, because it brings most grasse, and this must be done in February, the Hone encreasing, for this is the best time to cause encrease of grasse. In the manuring of your ground, loke that you lay most doung bpon the fop of the Will, for the raine will beare it to the lower parts fast enough. Wee that mindes to have his ground beare Come, if hee meane to fowe in the end of Summer, must turne in his doung in Deptember : if in the Spring, he map lay it on at any time all the winter. What ferning of time focuerit be done, you must loke that the wind be Westerly, and the Done in the wayne. This observation helpeth greatly Moone, in to the bettering of the ground. Wellde, you mult not forget to let the doung be dape before it bee land boon the ground. For though Columella do bid the contrary, our ofone experience wils bs not to follow him: for boung while it is moift, both more harme Wet dung to the ground then god, as daily experience teacheth. Pow as harts the your land will ware colde, if it be not dounged, to will it be daico or burnt, if it be manured perly, or to much. The watrie ground

requireth more flore of boung, and the drie ground the leffe. Rico. I remember, I have yer this feene Carth taken out of the fields nere adjoyning, and layd byon the land, I therefore

guelle the earth map be mended with earth.

CONO. The Germanes, besides sundepother forts of ens riching of their grounds, doe insteed of doung, cast byon it akinde of pitch and fatnette of the earth: (Plinic counts it to be first de uifed in England and Fraunce) called Marga, as it were the fat of the earth: but I rather thinks it to be the invention of the Gere vied com- manes, with whom yet both the name and the vie is retayned: it monly at is gotten in the tiepe pits, but not alike in all foyles. That part of this day in France that lies boon the Paale, both thew a fandy kind of Parle, differing from the fat Darle of Germanic, but of the same quality: which, caried byon the Sea in vestels, is folde as a great mar-Kent, for chandize. In some places the scolveing of Pones and Ditches, is bled, to the great enriching of the ground, in the mountaine and barrengrounds. In some Countries they make their land very fruitfull with laying on of Chalke, as Plinic tellifieth of the Burs gundians, and the Gascoynes, and in Bermanie in our dayes, this mending manner of mending of ground is common. But long ble of it, in of ground the end brings the ground to be Karke nought, whereby the come

the winde and the mending of the ground field.

The ob-

Marle,a fat kinde of earth parts of Suffex & the enriching of land. Chalke v-

MONE

mon people have a speech, that ground enriched with Chalkes makes a rich Father, and a beggerly fonne. A little lower, not a farre from the Maafe, in the Countrie of Lyege, they mend their land with a kind of flate frome, which cast boon the ground both moulder alway, and makes the ground fatter. In Lombardie they Dunging like so well the vie of ashes, as they esteeme it farre aboue any with ashes doing, thinking doing not meet to be bled for the bulpholesome neffe thereof. Columella watteth, that his Unde was wont to mend fandie and granely grounds with Chalke, and chalkie and hard grounds with gravell and fand, whereby hee had alwayes godly Come. Sodo I thinke, that Kiner-land by overflowings, and fall ground with mudde, mingled with fand and gravell, will be made much better.

RIGO. Pou have taught me funday wayes of mending of ground, I would gladly now learne the right way of plowing

and folding.

CONO. In plowing, and severly preparing ground for fixt, The mane confifts the chiefest poput of husbandap. Cato affirmeth the first ner of poput of hulbanday to be to paepare the ground well : the fecond, plowing. to plow it well: and the third, to downg it well. Of plowing, and turning by the ground, the fashion is divers, according to the nas ture of enery logic and countrie. All great fields are tilled with the Plow and Share, the letter with the Spade. The Plowes are of funday fashious, according to the diversitie of Countries, some fingle, some double, some with whieles, some without. The parts of the Ploto, are the Taile, the Shelfe, the Beame, The parts the Fote, the Coulter, the Share, the Witheles, and the Raffe, of the The Share, is that which first cuts the way for the Coulter, that Plow. afterwards turnes by the Furrow. Where the ground is light, they ble onely a small thare. In Liffland they have for their Plow nothing but a Forte. In Syria, where thep cannot goe very depe, they ble (as Theophrastus writes) very little plowes. Plinic writeth, that whieles for Plowes were deutsed by the Frenchmen, and cailed Plugrat, a Germaine name, which cozo ruptly is printed Planarati. In Divers places, where the ground is Ciffe, thep have a little wing on the right live of the Coulter, which wing is to be remoued to which lide you list: with the red or Caffe, well pointed, the Plowman maketh cleane his Coulter. Minen

This draw. ing with the head, is vied in the vpper parts of Fraunce

The like is vied

Withen you worke, your Dren must be yoked even together, that they may draw more handsomly with their heads at libertie, and lesse hurt to their neckes. This kind of poaking is better liked of many, then to be poked by the hornes: for the Cattell Maibe able. to draw better with the necke and the breft, then they shall with their heads: and this way they put to the force of their inhole box dies, whereas the other way (being restrained by the yoke on their heads) they are fo grieved, as they fearcely race the opper. & Spaine, part of the earth. Withere horfes map be bled, their ble is more commodious for the Plow, and the fewer of them the better: for many horses draw to hastily, & make to large furroines, which is not god: whereby weefer the ground to be excellently well plowed in Gelderland, about Coleyne, where they plow aiwaics with two horles, going very foftly. In Fraunce, and other places, with vs in where they plow with Dren, they make their Furrowes rather Norfolke, depe then broad. Where the ground is Aiffe, the coulter must be colnshire. the greater & the Aronger, that it map goe the deper: for if the crust of the earth be turned by bery broad it remaineth stil whole, whereby neither the lowdes are killed, not the ground can be wel harrowed. The Furrow ought not to erced one hundred & timens to fot in length, for if it boe, as Columella faith, it is hurtfull to the beafts, because they are to much wearied withall: but this rule, where the fields are large, is not in many places regarded, as in the Countrie of Gulicke, where the fields are great, their Furrowes aredzawne very long. You must not plow in wet wear ther, not wet ground, not when after a long drought a little raine falling hathbut wet the opper part, a not gone beepe. If it be to wet when it is plowed, it both no god that piere. Dou must therefore have a regard to the temperature of your feafon, that it be neither twozy noz twinet: foz, tw much moisture maketh it tw durtie, and to great depresse maketh that it will never worke well: for eyther the hardnes of the Carth reliketh the Plow, or if it do enter, it breakes it not small enough, but surneth by great flakes, hurtfull to the next plowing. For though the land be as rich as may be, yet if you goe any depth, you thall have it barren, which is turned by in these great cloddes, whereby it happeneth that the basde mould, mired with the good, valdeth the worfer Corne.

Dead mould.

Where you have plomed in a dry featon, it is good to have fome moisture in your fecond stirring, which moistning the ground, chall make your labour the lighter. Where the ground is rich, and hath long borne water, it is to be firred again when the weather war eth warme, and when the wedes are full growne, and have their fædes in their toppe, which being plowed so thicke, as you can scarle se where the Coulter hath gone, otterly killeth & destroys eth the wedes: befoes, through many Kirrings, your fallow is brought to so fine a mould, as it that nico very little or no harrows ing at all when you fow it: for the old Romans, as Columella witnesseth, would say that the ground was ill husbanded, that after sowing has need of the harrow. Pozesuer the good husband must Triall of trie whether it be well plowed or no, e not onely trust your eyes, good which (the balks being covered with mould) may easily be deceis plowing. ued, but trie it with your hand, ( which is a certeiner profe ) by thaulting downe a rod into the furrow, which if it pierce alike in enery place, it theweth that the ground is well plowed. If it be Mallow in one place, & deepe in another, it declares the ground to be euil handled in the plowing. If you are to plow byon a hill, you The plovemust plow overthwart, a not op and bolame: for thereby the incons ing of a hill uentence of the feepnes is met with, and the labour of both man and Cattell is lightned: But herein you must beware, that you ploin not alwaies one way, but somtime higher, sometime lewer, morking allope as you hall fix cause. Touching the season of your The best plowing, it must be chiefly in the spring, as the Poet wel teacheth: time of When as the pleasant spring, &c. For in Summer the ground is to plowing. hard and churlish, and in Wisnter to foule and virtie: but in the Spring, the ground being mellow, is easily to be wrought, and the wedes are then best turned in, which both do god for the enrich ing of the ground, and plucked by by the rotes before they have fieded, will never spring againe. And therefore with be, we ble to begin to plow about the middelf of March: but in landy and light ground, they ble to plow in the middest of winter, if the leason wil luffer. Plinic is of opinion, that fliffe ground also thould then be Airred. A flender and levell ground, subject to water, would be Art piowed in the end of August, firred againe in September, and prepared for fowing about the twelfth of March. The light billy ground, is not to be broken by in Summer, but about the Balends

Balends of September: for ifit be broken by afore, being barren and without inpee, it is burnt by with the Somme, and hath no godnelle remayning in it. Wet ground, some would have broken by after the Joes of Appill, which being plowed at that time, Hould be Airred againe about the tenth of June, and after againe, about the kalends of September, according to Columellacs minde. But those that are skilfull in husbanday, agrie that after the tenth of June, without great fore of raine, you shall not plow: for if the piece be wet, there is nothing to the contrary but you may plow in July. In the meane time, beware that you deale not with ground oner-wet, as I gave you warning before.

RIGO. May I plow in the night, if I lift ?

Plowing inthe Night.

Cono. Dea, very well, in Summer time, and in hot couns tries you may begin in the evening, and continue till the Sunne rife, that the moissure and fatnesse of the ground, may remaine Haddowed boder the clod: and that the Cattell through overs much heate of the Sunne, benot diseased not hurt. How oft you shall plow the ground that you meane to solv, partly the nature of the loyle, and partly the condition of his lede will teach you, as when we come to it, I will tell you : for it is not niedfull to ffir a gravelly and a light ground, fo often as the fiffe ground: pet we finde, that land, the oftner it is ffirred, the better it beares. So that for some seede, you must not onely twyfallow, and threfallow your ground, but also fourefallow it, as they ble in the fruitfullest places of Italy and Germanie. In Milnia and Austria they plow but twife. Stiffeground, as they commonly doe in Italy, is best to be sowed byon the fift stirring: in Tuscan, byon the ninth. Thus hath enery Countrie, both in this, and other matters, his falbion, according to the nature of the ground.

R 1 G 0. Wat may I not folve one pace of ground enery pare

without resting ?

Co No. There are some grounds you may som perely, as in Italy, and in Austria, & likewise in some parts here about the Us ner, that are fruitful either by nature, vz by overflowing. In other places you must observe the old saying of the husband, Take not too much of your ground. Virgill would have ground reft energ other pere: which if you have fore of ground, out of all doubt is bett. Hereof had the ground that is sowed enery piere, his name

in the old time: but commonly cuen the best ground requireth rest the third, the fourth, 02 (at the farthest) the fift piere. Varro waiteth, that in Olynthia the land beareth enery pere, and enery third yere most plentifully. But if you will do well, you must let it live enery other viere, according to the nature of the fople, or cife fowe it with lighter fiede, that loketh out leffe the fubstance of the ground, as Lupines tothers, that we will thortly intreat of. It is also much to be considered, whether the ground that you plow be lay ground perely fotone,oz fallow: If you break by new ground, if it be rich, heavy, and prepared for fied, it fufficeth to plow it once, and to fow it immediately, and harrow it. If it belight & granelly ground, you must thapfallswit, specially at the first breaking bp.

R 1 G o. Were you fpeake of omers tearmes belonging to this trade, I pray you make me biderland them, before you proceede

any farther.

Cono. This Art, (as likewise all other) hath certaine words Latine peculiar, and belonging to it felfe: and because sunday men of god words belearning haue herein bone deceined, left my matter Mould be longing to marred with darke and frange tearmes, I will declare the words husbandry as playne as I can, digreffing a while from my former frech.

Rigo. I beleech you heartily.

CONO. Metake Agrum, a field in our speech, not for a Jus Agri Vecas rifoidion, a Diocelle, or a Shire, as the old lawiers take it, but with -labolenus & Florentinus, we count it a parcell of ground, either cas rable or pafture. Ager, Aruus, or Aruum, we call earable ground that is to be plowed and fowne. Varro would rather haue it called Aratum, and net Satum. The Field that is called Reflibilis, is that which is renued, and enery pere fowne, called of the Greekes παλομφικς, because his fruitfulnette continueth to the next piere, and pecloeth his croppe energ pere. Ager Novalis, is called of Varro, the ground that hathbiene fowne and fallowed : of Plinic counted to be sowne cuery other pere: with the Lawpers it is counted ground new plowed, that hath lyen a vere: we according to the bulgar spech for we must speak with the most, and Timge with the fewelt) doe call Nouale Agrum, that which is fleto broken bp, and hath not before bene plowed, whereof committh Novalium Decimæ, the Tithes of new broken-by land: yet 3 know there are some learned that countit that, which after his trop

crop lies lap. Veruactum is of Varro taken for that ground, that in the spring time is turned by, and hath beine for a while spared. Dftentimes is this also called Nouale, both the field that hath lie en a pere, and that which is broken by the first spring : for thus faith Varro : There is great difference whether you fow in bus tilled ground, or in that which is perely fowne, and is called Restibilis, or in that which hathlien awhile, and is broken by in the spring. Moreover, both Columella and Plinic do ble, not seldome. Veruactum, for ground new broken bp in the spring, taking their reason of the time. The field is said to be plowed, to be firred with the plow, when it is turned bp. It is broken by when it is first plowed, lying in great clods. The second plowing is called Offringere Agrum, oz Iterare, to plow againe : Tertiare, to thaifale low it. Ager iteratus, and tertiatus, be bluall mozds with Columella and Plinie. Novare, is to change the ground, well bulbans bed before, and to plow it and prepare it for the folving. Occare, to harrow it as Varro laith, is so to breake it, as there remaine no clod. The harrow is an infirmment croffe lettused, to breake the clods withall, and to cover the feedes. Cratice is likewife bled in the same signification. Acrare is, when that which is sowne and come to some growth, is turned in with the plow. Plinic calleth Ararare, as it were Aratrare, to plow often that which is fowne. Sarrire, is to purge with the rake. Runcare, is to wede out of the ground notiome weds, for which is also bled Auerruncare, Deruncare : and of Columella, Exherbare, Pastinare, and Repastinare, is to digge about the Mines. Pastinum, is a foaked instrument be fed in the planting of Mines. Lirare and Occare, are almost one, where we plow, so as we leave betwirt two Furrowes a Ridge, for the drie kieping of the graine, like a garden bed. And hereaf is the space called Lira, a Kidge, which the husbandmen cal Porcas, because the place being raised high, defendeth the come from the water, and Lira Hortensis, abed in a garden. Scamnum, a balke, is the groffe earth that hath scaped the plow. Plinic willeth, that there be no balke made, not great clods remaining, meaning the great turffe that is turned by at the first plowing. Scamnatus ager, is called of Vibius Vrbicus, that land which runneth all in length from Welt to Call, which if it be moze of length then bredth, and leeth bpon the Porth, is called Strigatus. The land it selfe is also callea

called grotte and raw, that is not well mellowed, which hath need to be leasoned with the heat of the Summer, and the cold of Mins ter, and to be plowed in the Spring. It is also called rich, fruitfull, fertill: and that which is nought, and pieles not his fruit, is called leane, barren, hungry, or brinish: also satt, bitter, fennish, where the water Will continues: West, that sometime lies drie: Carbunkled, that is burnt with the Sunne, rotten and mosse. It is also called pleasant ground, fluct, blacke, rotten, and mellowed, which are the fignes of god ground: but hereof I thinke 3 haue now fpoken fufficiently.

Rico. That you may continue your speech, I pray you gos

to your former matter againe.

CONO. Withen you have broken by your ground, if it be Noualis, as I faid, and not tilled before, you may folve it prefently, and harrowit, and if neede bee, rake it. The ground that is yeerely fowne, and that hath lyen space, is to be plowed thrise, according to the nature of the foyle, and the feede that you meane to fowe.

Rico. Dow pou hane told me how to order my land for fiede, I pray you let me biderstand the lorts of lede, and in what lort

they must be folved.

CONO. That must Jose: The leede that commeth of that Of Seede, which the Latines call Fruges, as Pulle, and Corne, we here doe and their call Fruges, all forts of harvest graine: which the Germans call divertity. yuia and agaia, because they are gathered in their beautie, and their ripenesse. Iulian the Lawier, calleth Fruges, ail things where with a man is fed. The ancient writers doe underfand it more largely, for all the fruits of the earth. Plinie deutdes it into thus kindes, into Come that growes on care, as Gallus the Lawier Des fines it : the other, that beareth cods, as all kinde of Pulle, oz Pedware. Df the first kinse, is Wiheate, Rie, Barley, Bigge, Dates, Biechwheat, oz Wuck, oz if you will in Bzieke ony onveoc, Rife, and Lenten Wheate, though all kindes grow not in all plas ces, not have in every place all one name. In some places pour have not Lenten Wheate, thiefip where there is plenty of Big. In other places they ble neyther Dates noz Bucke. Dethe kinds of Pulse are these, Beance, Peason, Lentiles, Thiches, Tares, Old Scede Lintels, Lupines, and such like. And though there be sunday soats not to be Amtels, Lupines, and fuch like. And though there be fully losted not to be officede, and enery Country hath his kinde, and somes such as best sowne. agrass

agræs with their nature: pet generally this is to be regarded. that you sowe none that are old and dayed, but the newest: for old feed both oftentimes, as they write, change their nature: as the feed of Colworts, that being fowne, turneth to Kapes; and Kape fed likewise into Colworts. The fed of the first pere is best, of two piere old worle, and of thee, world of all, the reft is barren and naught. The best fied also is that inhich is waytiest, and lyeth in the bottome, and such as is full, and being broken, hath a god cos lour: fuch as is wrinckled, and thin in the eare, is to be throwne as way. There is also another necessary note, to have the seed from Arange ground, & from the worle to the better, and not the contras rie, noz from cold Countries into hot, noz from the forward to the flow, e to beware that it be not bitten with Birds, Dife, 02 Ants: and to prosper the better, sprinkle them before they be sown, with the tupce of Houllicke. If you mingle with your graine the fixe of Bearfot, flow it about your ground, you hal laue it from the and

The order noyance of birds. Pou must sow your Kidges with an equal hand, of sowing. xai oualas, and all alike in every place, letting your soite (specially your right sot) and your hand goe together: Theat, Kie, Barley, Dtes, to ther, chiefly such as bear cods, as Melium t Panicum, must be sowne with a full hand, but Kape six onely with their singers.

RIGO. A man must ble his hand I perceiue, as the Harper,

both, to make it perfect.

Cono. He must inded. And as we put more water to stronger Mine, then we doe to small, and lay the greater burden byon the stronger man, and some stomacke requires the stronger sod, so some ground may beare much sed, and some alway with less : neither can it be certainely appointed, how much sed is generally to be cast byon an Acre: though I know the old writers appointed a certaine quantitie to enery Acre, which perhaps might serve with them: but we should soulely deceive our selves, if we should observe the like in every place: First, because some ground requires more sed then other, as the ground is of stiffeness or lightnesse: sor the stiffer ground (as in Polland near the Shine) requires much sede, where lighter ground requires here. The timely sowing, the thinner: and the later, as Columella saith, the thicker. Secondly, their measures and Acres differ, as the thing that at this day is not throughly agreed upon. But now

you thall heare what fiede enery ground requireth.

Rico. That I long to heare.

CONO. After long reft, og the first dunging, epther Barley og Theate is to be fowne : but Theate, though it require goo ground, pet if the ground bie to rich lubere it is fomen, it will grow to ranke, and lye leadge bpon the ground. And theres fore bpon fuch ground, it is best to fot pour Wheat after a crop of Barley, Beale, or Bucke, and after your Wheat crop, to lowe it with Rie: and then againe (if the ground ware not poze) with Barley. In very rich ground, immediatly after the gathering of Rape feed, plow it prefently for Bucke, whereby you may have two croppes in one piere. In the like manner Cabegged rape fowen after Rie, maketh two haruelts in one peere. Beale, Beanes, Wares, and fitches, and almost all Bulle elle', requis reth rich ground, which afterwards may pierely ferue for Wheat, Milium, and Rape. Plinic would not have Rapes folven , but in bery well bunged ground: but we finde by experience, that after a Crop of Rie, in meane ground, you shal have the same piere great Rapes. Sandie and granelly ground, muft reff every third yeere, for two or three peres, that being then well bounged, you map foive Kie, oz Buch, after Dates. In good Balture ground nelv · broken bp, von may foive Dates after the first plowing, after that, Rape fied, then Barloy, after that Wheat, or Rie, and at last Dates, or Rie,if the nature of the Countrie be for it. Withen this is done, you muck epther doung it, og let it lye lay. If the ground be mellow after Barley, in some places they solve Millie, then Ravish, after that Barley, and Wiheat, as in Campania: and fuch ground is sufficiently plowed, when it is sowen in some place where Lenten Wheato is sowne, it reffs their moneths, & after is fowen with Beancs in the Spring, Ar no other wife map pour charge indifferent ground. If after tino featons of Corne, pou fow Bulle or Pedioare, the barrener ground must rest three peres, Some will in no safe have you sowe wheat, or Barley, in ground Harrovethat lies fallow. After yechane thus fowen your fiede in ground ing. thrice plowed & well prepared, then must you straightwaies hars row it, which is done with a lettused instrument full of teth, drawen opon the ground, whereby the clods are broken, a the feed concred; in some places it is done with a boyd tyed to the Piolo, inhich )

Raking.

which they call in latine Lirare. Sometime raking is néofull. which in the Spring, lofeth the earth, made changed with the cold of winter, and letteth in the fresh warmeth. It is best to rake

Waheate, Barley, and Beance twife.: Wezeouer, they breake Rowling. asunder with the Rowler the greater and Atter clods. Weeding is when the Come is knotted, the noughtre wees being plucked The time by delinereth the rotes of the Come and fenerethit. To fpeake for lowing of the leason of Sowing, it is agreed byon of all men, that there ought to be no folding in Winter: for the Winter corne, when it is folved before winter, appeareth about the ground sometimes within a feauen-night after, which if it bie fowed after winter is begun, it fearcely appeareth in forty dayes after. Dome bery fonde ly thinke it better to fowe in the Spring, then in Autumne. Plinie watteth that in Trevers the Barueft being in they have folwed in the coldest of winter, and raking their ground in the Bpzing, have had an excellent good crop after. Among tour harueft feedes, there are some harder, that are able to abide the winter, which are fowne in hot Countries, as Virgill faith, about the fetting of the feauen Carres, which Columella buder Candeth to be about one and thirtie papes after the Autumne Acquinoctiall, that is, the 9. Halends of Pouember, and in France and Bermanie in Sepe tember, and the beginning of Daober, as Rape leed, EBbeat, Rie, Winter Barley, that are nourished in the blade all Winter, and grow by towards earing in the Spring. Some there be that will you to fowe before, onely in dry ground and hot Countries.

tayleth.

Some againe would have you to fowe in cold Countries after Late fow- the Autumne Acquinochiall, in hot Countries later, left they ing alwaics thould flourish before winter, and be destroyed of wormes, or blas Red. Some on the other fide make halfe, faping, That loone fowing fometimes deceives, but late lowing ever. It is goo reason to foive timely in wet grounds, that the fixbe rot not with overmuch moissure: and later in day grounds, lest lying long & not space. ting, it come to nought. Alfo, in timely folding, to fowe thicker, because it is flow in roting: and in later sowing thinner, left with the thicknesse it be choaked. Summer liedes, which are sowed bes fore the rifing of the feauen Carres, & in the Spring, are Beanes, Weale, and fuch, Bulle, Millet, Panicum, Sciamum. Summer, Barley, Flare, Dempe, Dates, Bucke, Sporia, and fuch other,

Summer graine.

are foliced in the Spring time. In Alia and Greece they folive all, as they fay, at the fetting of the feauen farres. Pow, although there be certaine precepts of the time of folding, and how much feede is meete for every quantity of ground, furely, they might as I have faid before, for their ofone Countrey and nature of their ground, give a kinde of guelle, but to determine any thing herein tertainely, there is no man that can doe it, but the ground and every mans owne practife is herein the best Waster. One ancis A generall ent generall rule of hul bandry there is, wherein we are warned rule. in cold Countries to fowe late, in temperate Countries foner, and in one hote Regions conest of all. Eratofthenes faith, that India is Subject to much raines in Summer, and that then they sow Flar, Selamum, Mice, and Millet: and in Minter, Wheat, Barley, Dede ware, and other fruits that we have not. Heliodus, the Prince in his time of hul bandap, wils be to low according to the cuftome of Greece, his naturall Countrey. Virgil, Cato, Varro, Columella, and Plinic, appoint their rules for Italy, whose mindes if you will have followed in all other places, you thall but like to cover enes ry pot with one couer. But to come to the matter, lith the fedes of funder natures require funder times of folding, and divers foets of ordering, and that herein enery Countrep hath his quife. I will here (observing such customes as are most generall to them all) feuerally thew you of every feede by himfelfe, and so declare buto pout he order of their folding. And first, amongst all the fruits and graine that the earth both veeld for our full enance, the chiefelt place is rightly ginen buto wheat, called in Græke mogic in Itas lian Grano, in Spanish Trigo, in Dutch Weyls, in French Four- Wheate. ment, as a graine molt neofull for a man, and therefore mott fruits ful, because God hath ordained it to nourily man withal. It is wonderfull what peelo it hath beine of in some Countries. Augustus his Deputie fent him from Bilaice in Africa of one graine of wheat foure hundred branches. And Plinic witnesseth, that in the same place, one buthell hath peloed abundzed and fiftie buthels.

Rigo. There are that hold opinion, that this which the common people call Wheat, the Germaines Weyls, and the Hollans bers Terue, is not the true Wheat, but a kinde of Rie, and that the true Wheat which the Italians call Grano, groweth onely in

Ataly and in Spaine.

CONO. That which growes in Italy and Cicillat this day. differeth not from ours in falhion, colour, not flowee, though the graine there be somewhat great, and the flowe more clammie, which maketh it that it cannot be long kept, specially about Rome. And inhercas our Wheate is either bearbed og pollard, theirs is altogether pold: we call it pold or pollars that hath no Annes byon the eares. And that we call the Aane, which grows eth out of the care, like a long pricke or a Dart, whereby the care is defended from the danger of Birds. With Virgill the Maneis vico for the come, as the parke for the wheat. Gluma is the huike of the come, whose top is the Ame. Frit is the small graine, lester then the come that growes in the top of the ripe eare. To returne to the wheat, I graunt there are some that boubt of this wheat of ours, such hath beene the iniury of the time (as all things almost forgotten) we fearfely know how to name the fote that we baily fiede of. For my part, I will follow common ble, as a Willris in speach. The old waiters have waitten of sunday foats of wheate, whereof they have thought that most nædfull to be fowne, which they called Robus, as the fayzest and waightiest. The second called Siligo, they bled in their fineft cheate. The third, they called Trimeffre, because it would be ripe in the moneths after the sowing. Though Columella alow no fuch kinde, yet was it most aunch ent with the Wickes, and called Trimenon, growing onelp in the cold countries. In Thracia, they have a kinde that is ripe in tivo moneths, and is covered with a number of hulks, against the extreame cold of the countrey. In our Countries also we have Wheat and Rie, that we folw with our Summer graine, as we like wife doe Kape feede, but to no great commoditie: for the wind ter feedes to farre erciede them, and being nourifhed in the earth all winter, they prome, as Theophrastus saith, of more substance and profit. Amongst all these forts, Plinie recounteththe wheat of Italie to be the belt, both for beautie and weight. We ble with bs onely two forts, differing in this, that the one hath smothe eares without any beards, the other with long beards of Aanes, bery rough and harpe, not much bulike to Uninter Barley: mall other properties they are both alike. It is fowne in Seps

for Wheat tember, the feafon being faire, the ground thaice plowed and well raked or harrowed, although you may fow it very well after fowing.

once:

once plowing boon ground where Deale, Tares, oz Bucke hath beene newly had of, in a good foyle. Plinic & Columella would have pou fow of Wheat and Rie, fine buthels bpon an acre : but as 3 faid before, this measure is to be measured with reason. We at this day fold not fo much wheat boon an acre, as rie, noz fo much rie, as barley. It is beft, if the winter be like to becold, to fow the foner : if warme, the later. Wheat belighteth in a levell, rich, warme, and a dry ground: a Chadolved, wedo, and a billy ground, it loueth not, though Plinic fay the hill yieldeth harder wheat, but no great floze. Afterit is fowne, it putteth out a great company of fmail rotes, and appeareth at the first top or blade: it hath funday stalks, but such as cannot branch all the winter, as other winter come is, it is nourished in blade : when the Spring draweth on, it beginneth to fpinole: bpon the third or fourth fornt thereof, commeth out the eare, which first appeareth inclosed in the blade. it flowzeth the fourth oz fifth day after: if it grow to ranke at the first it is eaten bowne withcattell,og in some place mowed: it is after weded: it flowes about the 10. of June, soner or later, as the piere falles out, even at one time almost with the Wine : two mobile flowers, with comfortable fauour flourishing at once. Varro affirmeth, that the wheat leth I 5. dayes in the blade, flouriffeth 15. and ripeth 15. After it hath flowed it wareth greater, and as Theophrastus saith, is within fortie daies after full ripe, where with the latest they reape in the eight moneth. Dther lay in Gre and thirtie daies, and reaped in the ninth moneth. It never eares. till all his joynts oz knots be growne. There are four e joynts in Wheat, as Plinie faith, and eight in barley: but in our country and our daies, both Wiheat, Rie, Barley, & Dtes, have but foure, and not that alwaies. Wefore the full number of the toynts, there is no appearing of the eare: which when it commeth, beginneth to flowes within foure or five dayes, and fo many, or little more, it fadeth. Wahen the flowie is gone, the graine begins to fivell, and infoure or five dayes after, to ripe. The blade of the wheate is fomething like a Sedge, but narrower then the barley : the fpins ble, Calke, or frame thereof, is smother and gentler, and not so betttle as Barley. It is closed in many coates. The stalke that beareth the eare is higher then that of barley : the eare groweth more buright, and farther from the blade, the chaffe is fofter, sweeter, D 2

smæter, and moze full of supre, the eare of wheate is out of ozder and buenen, as well of the Pollard, as of the bearded, whereas, Warley hath his care of inft number, and in perfect order. In Ba-Aria, it is faid a graine of wheat is equall in quantitie to an eare of our wheat. In Babylon, the blades both of wheat and barley, as Herodotus reporteth, arefoure inches broad. Wheat, as Columella writethafter the third folding changeth to Rie, which hath bene knowne in Germanie, as I faid befoze in many places. Df wheat is made Amylathe making whereof, Cato and Dioscorides teacheth. After wheat we sow with vs rie. There are that thinks it to be that which the Greekes call dauga though Homer take chupge, for a kinde of fode for horses: some others take it for a kinde of wheat. Herodotus faith, bread was made of it. Df Laurentius it is called Far. Df Gala, Siligo. Divers learned men call it Secale, and take it for Plinies farrago. The French men call it Segle. The Dutchmen Rock. The Italians, almost as the Latines, Sagala : the graine is fomething blacke, and maketh blackiff becad. But to passe over all controverses, I follow the Country speech, & take Siligo for our common Rie, which is folved immediately af ter wheat, about the end of September, 02 in the beginning of De tober, in god ground: in landy and granelly ground, it is lowed in February, realled Summer wheat:it requireth the best ground, warme, & falt, and refuseth not light ground & granelly, so it be hele ped with dung: it loueth wet ground as ill as wheate, then both require to be folven in a diepe mould and a plaine foile: but Rie is sowed a little after wheat, in the sowing whereof, pou must occupie a third part moze then of Wheat: it prospereth lightly in any ground, and many times with the yello of a hundred for one. It must be solved after the third plowing, as Wiheat, and harrowed. much after the fame fort, the stalk or steale thereof, is smaller then the Wheate Stalke, taller, and Gronger, his eare hangeth downes wards, and therefore more subject to blaffing, because it receiveth and kiepeth the water that fals while it flowzeth, and fuffereth the biolence of milisand frofts: the frain thereof is gentle and flerible, ferning for this and coverings of houses. Dow followeth Warley, accounted in the cloe generations among the worthieft fort of graine, and not of small estimation at this bay. The Italians call it Beade oz Beauc, oz Orza: the Spaniards Ceuada:

Barley.

the Dutch men Gerft: the French men Orge: the Grecians ugish: and though it be bled in Grace and Italie, and fuch warme and fruitfull Countries for Cattels fod, as Homer alfo witneffeth, pet in the Portherne Countries it supplies the place both of bread and wine. There are of it two forts, Hexastichon and Polystichum whole eares are thire, foure, and fometimes fire fquare, and biners eares fpringing from one grayne, every care contayning above fourescore graphes, so wonderfull are the gifts and bleffings of God. The other fort is called Distichon, having in the eare but two rancks or orders onely. Againe, there is one kinde of it to be Towed in winter, another for fummer. The winter Barley is of better vield, but it is some hurt, specially with much wet & frosts following. There is nothing moze hurtfull to winter Corne, fpc. cially Barley, Kape feede, and Ric, then the wet of winter, nipped with often frolks, and after a warme thaw, to be presently from sen againe: both the forts of Barley require ground that is very rich. Winter Barley, after two or three plowings, is to be fower in September: Summer Barley in Warch og Appill, after twife plowing; and many times, necellitie forcing, after once plowing : in the folding, you must occupy moze feede by halfe, then in folding of wheate: it requireth a mellow and a fat ground, and therefore is belt fowed, where the ground is molt manured. The winter feede flowzeth in May, and is ripe in June at the furthett. This kinde was not wont to be fowed in thefe parts, but great nums bers, now moued by my example, do ble and receive great gaines by it. The fummer Barley in many Countries is ripe and ready in thee moneths after the fowing. In Aragon, as Plinie waiteth, it maketh double harnelts enery pere. The feuenth day after it is fowne, it commeth bp, and one end of the feede runneth downe in rote: the other, the comer fpringeth, & commeth bp in blade: the greater end of the grayne maketh the rote, and the flenderer the flowie. In other graphe the rote and the blade fpring both from one part, the blades of both kindes are rough. It must be gathered with moze fred then other graines, for the ftraw of it is very brite tle. Df Barley is made, as Dioscorides writeth, both Beere & Ale.

RIGO. I like your Bere you have excellently well, I pray

you tell me in what fort you make it?

Con o. I will not hide my cuming in this matter. Dy Barly

is first steeped in a Celeerne of water a day or two, if if be winter facte it is harder hulled, and requireth the longer watring. The Summer graine is thinner, and requireth a letter time. When it is watred. I day it boon a flore or a kiele, till it fluell and. breake, putting out as it were little berds or threds, if it beland thin it will in fummer specially in Warch, buy & breake of it feife. without anv fire. Don mult take good heed, that in specioting it o. pen not to much and lofe his floinge. This being done, I grindeit, and put the Deale into a Daly- Rat, whereunto I put my licour. fodden, and after let it fothe thee or foure times, adding buto it. both for wholeformes and taffe, the flower of the Hop: after this, 3 put on Dat, and fet it a working, and then cleanfe it. The more it is cleanfed, the wholfomer a clearer it is: that which commeth. of the spurging, is kept both for Brewing and Baking: the drinke. will be the better, it you put to it a fourth part, or a firt part of wheat: the more Come you lay on, the pleasanter and better coloured will your Biere be. Pour greatest care mut bie to fie it well fodden, well cleanfed, and well hopped, otherwife Walt of it felfe will fone corrupt. Dbferuing this order, your drinke thall be both wholesome & pleasant: that endureth best and longest, that is brewed in Parch. There is made of Barley Alica, a reasonable god meat, and Prilan. Dow they must be made, nou may read in Plinie: Pert to wheat and bariey, followeth Zea, which the come mon people, both in Italy, Spaine, and Flanders, call Spelta, the French call it Espeltra, with Homer is greatly commended, ZeiAwgog agspagethe fields that beareth the Zeam, being as Galen faith, the meane betwirt wheat and barley, for he hath the qualilittes of each of them, tis of two forts, the one in Calke, iount, and eare, like to luheat and carrieth in enery huske two faces, and therefore is called dinounce, the other having both stalke and eare Moster, and but one graine in every bushe, growing into rancks, din the top resembling Barly with his Marve Aanes. In Italie, specially about Mirandula and Concordia, it is bled in provender for Worles, it is not in thefe countries in ble. I would fow it here, Ath the ground will fexue for it, & that both bread & brinke might. be made of it very well, but that it is something troublesome to grind, because of the couble husks. It desireth a moist ground, rich . and god, it is folued after the fame maner that wheat is fowed,

ZED.

in September of October: it flowseth in June, and is ripe in July, very meete for colde. Countries, because it can abide frosts and kormes.

R 1 G O. There is (as I remember) a kinde of wheat called Far, Far, Ador auncient people called it Adoreum, that groweth in many Counsteam.

trics.

CONO. Don lay true, for with the olde fort, Far was a genes rall name to all come, as wheat Far, Warley Far, and Mie Far, and when mils were not pet denifed, they did beat their come in mozters, wherof came, that the meale was called Farina: pet after, was the name of Far onely given to Adoreum, though Columella called it alwaies Far Adoreum, making foure sunday soats of it. The Frenchmen call it Brance, the Italians Sandala, the Spaniards Elcandia, the most people of our Country call it Farro, the Dutch Keskorne, whose graine is very like wheate, but that it is thorter and thicker, and where wheat hath a clift, there hath it a rifing. It is heavier then barly, a lighter then wheat, it yeeldeth moze meale then any other Come. The people of Rome as Plinic faith, line with this Come at the first their hundred pieces, it groweth in Egypt without Aane, with a greater care and a waightier: it hath in the stalke feauen toints, and cannot be cleanfed except it be pars ched. France bath two fosts thereof, one of a reddiff colour, which the reorie call red wheate, the other whiter, which they call white wheate : the care is the founte, not bulike to fpelt. In Itas lie they make pottage of it for their labourers. Far or Adorcum, Virgil would have fowne befoze the fetting of the feauen farres, after the Aequinoctiall of Autumne : but in wet and cold barren grounds, it is best to sow it about the Balends of Dctober, that it may take dieperote befoze the frazing and cold in winter. It is fowed in low ground, watriff, and chalky: after it is fowed it muft be harrowed, raked, and weeded: the raking lwfeth in the fpring, the heavy thaces of winter. In raking or harrowing, you must take hed, as I faid before, that you hurt not the rotes : wooling when it is knotted fenereth the Come from all annopances. The French men fow it in hollow furrowes, because it is very subled to blatting, thinking thereby to preferue it both from blatt and miloci. To fow it in hie ground is discomended, though it profe per there well inough, because eattell cannot away with it, for the Charpe

tharpnette and ruffnes of the eares, and because it requireth great labour in getting off the hulks, which if it be not clered of, is not ther god for mannor beaft: the bucleane chaffe both burt with the Cough, the Cattels lungs. Amongst the winter leedes, Kape fiede doth challenge his place, which I take to be the feede of the Rape, which Plinie maketh for his third kinde, and wilde, whose rote, like the Raddith, runneth in length, the leaves being ruffe, like the other kindes, and the falke bulhp and full of branches: the rote of it is god for nothing, but is onely folmed for the fede, whereof they make Dyle, feruing for pore mens kitchins, falls, and lights, specially in Germanie, where they want the Dyle of Olines, whereby artieth great gaines to the hulbandman. In the hot Countries where they have other Dyle mough, this fied is of no ble, but in feeding of Birds : it is fowed in the end of August. of the beginning of September: how be it, sometime it is sowne in Parch among the Summer febes, but to nothing fo great a profit : it is cast into very rich ground, or well manured, thrice plowed and well tilled, it must be sowed very thin : for being a very small seed, it must not be sowed with the fullhand, as wheat is, but onely with their fingers: it floweeth in Parch, or thereabouts, as the piere is forward, and continueth his flowing a long time: the flowie is yellow, and very sweet, wherein Bes boe much delight : as some as it hath left flowing, it is presently ripe : it groweth two cubits in height, bearing a plentifull feede in little small cods, it rendereth for one bushell, a hundred bushels. of fiede. Hitherto hane I spoken of Winter fiedes, now must I tell pou of such as are sowne towards Summer.

R 1 c 0. Will you speake nothing of the Kape rote, which is greatly occupied of the husbandman, and not to be despised as a thing that groweth in great quantitie, and is meetely good meate.

both for man and beaft?

Cono. The Kape is named of the Grekes yoyidan, in Italian Rapo, in Spanish Nabo, in French Raven. The ordering of which, though I twke it to belong to the Garden, wherein you are able to say more then I, yet because you require it, a that some time the husbandmen do plant them in their fields I wil tell you as much as I know therein. There are 2 kinds of them, the first doth rate all in length like the Raddich, which in many places of Germanie.

Rape

Germaine is bled for a daintie meat: the other eyther groweth in great roundnesse, or else very flat: they are nourished with milts, frofts, and cold, thee months together, and grow to an ercoding greatnesse. Plinic writeth, that hee hath feene Rotes of them that have weighed fortie pound. Some say, they have fæne of them that have weighed an hundzed pound. It is wonders full, that of so little a seed thould come so great a rot. The Bres cians make two kindes of them, the male & the female, both comming of one feed, the male when it is fowed thicke, and the female when it is folved thin. There are two featons for the folwing of it, eyther in Warch, which will be ripe about the tenth of June, or in July, or August, after the first plowing, commonly bpon the ground where Kie & winter Barley have bene newly had of. It is thought they are the sweeter by lying in the ground all winter, when as the encrease is not in the lease, but in the rote. They are also sowed (as Plinie writeth) in hot and moist Countries in the Spring, and will the better encrease if they be sowed with chaffe, who would also have the sower naked, and in casting the Ciede, to with good lucke to himselfe, and to his neighbours. They are preferred from the Caterpiller, which commonly confumeth the young leaves, by mingling the feed with Sote, or traping them all a night in the invce of Houseke: Columella affirmeth, that he himselfe hath sæne it proued.

RIGO. Pow proceede (I pray you) with your Sommer feeds. CONO. The Sommer lædes are almost all such as are ripe within their moneths, or foure at the ottermost after they are fowen, and some of them somer, if the ground and the weather be god. Among the Sommer fædes we will first talke of graine, and after of pulle. De the graine, Dates are the first that are Oates. lowed, though Virgill count them barren, & Plinie counteth them rather wieds then come, affirming, that Barley when it prospes reth not, will many times turne to Dates : yet the Frenchmen ethe Germanes count (it at this day) the best provender for Hore fes, and foo for Cattell. Plinie also witnesseth, that the Bers manes vied to make pottage of Dates. And Dioicorides maketh mention of Daten pottage, πόλτος έμ βεάμε γίνηπα, pottage of gruell is made of Dates, it is called of the Brickes Beauce, in Italian Vens, in Spanish Auena, in French Auoine, in Dutch Hauer

Haver, which though it grow not commonly in Italy, pet bpon Monte Ficelto, and in the kingcome of Paples about Siponto ft is found. Wee have amongst vs two kindes of than, one full and weightie, ferning in dere yeeres, to make bread and drinke of, specially if it be medled with a little Barley, and this kinde prospereth in rich and new broken-by ground exceedingly. The other kinde is lighter, which the common people call Ewen and Brumhauer, it is bery light, and veloeth but little flowe noz fode: it groweth bpon fandy and barren grounds, and ferueth well for Tattell and for Dorfe: both the kindes have bushy tops. from whence hangeth the leede, in likewise resembling the graffe, hopper: the floinze of it is white, a from one graine, there fprins geth divers falkes: with Dioscoridos, Bromos, is a kinde of Data that resembleth wheat in the stalke and the blade, & groweth like wilde inheat. Theophrastus calleth it ἀιγύλοπα. The Dat is not dangerous in the choyle of his ground, but groweth like a god-fele low in enery place, where no fixe elle will grow. Dfthe like die sposition almost is Buck or Bechwheat, buknoinne to our old far thers. It is called φαγόπυρου Bechweat, 02 μελάμπυρου, Blacke wheat, though μελάμφεου fignifieth another graine. I had rather call it Bechwheat, because the graine thereof is the ecornerd, not bulike the Bechmast both in colour & forme, differing only in the smalnette. The Calke is very great, a Craked like to the greater fearne: it hath many branches, with a buthy top, a great fort of white flowers in a knop, like the flowers of Elder: it floweth long together, safter appeareth the graine, first white and gras nilly, in thape theiresenerd: after they be ripe the colour chaungeth to blacke oz bzownish, like a Theunut. This graine hath not long fince bene brought from Kullia & the Porthren parts in Germas nie: now it is become common, and bled for fatting of Hogs, and serueth the common people in deare seasons, to make bread and drinke withal. It may be fowed in any ground, and is fowen in As paill, Pay, and in June, after the reaping of Rape lied. Pou mult sowe leste of it byon an Acre by a fourth part then of Wheat of Rie: it is much bled to be solved byon the ground where Rapes grow, whereby the ground both pielo a double crop in one piere. Withen it is folven, it commeth bp, if it be moit weather, within foure of fine dayes after, having two leanes at the first appearing,

Buck.

not much bulike to Purlaine. Amongst the sommer ledes is also received formmer Barley, which from the Sunnes entring into Sommer the Aquino Riall, till the end of Parch & Appill, is folnen, and is Barley. reaped againe for the most part in three moneths, or at the bitere most foure. It requireth (as winter Barley both) a rich and a mellow ground, to be fowed after twice plowing, though some time for necessitie it is sowed after the first plowing. And though ft peeld not fo god noz fo perfect a graine as the winter Come Doth Whole graine as Theophrastus writeth, is farre more perfed and of Aronger Substance, bringing greater Araw and weight tier eares, vet because it is harder husked, and the Summers wo more tine and gentle, is therefore of molt men belired, and counted to pelo moze flowze then the winter graine : some againe Millet. preferre the other Miller, called in Latine, Millium, in Greete nevxeop, in Italian Milio, oz Miglio, hauing as it were, a thous fand graines in a eare, as Fellus fæmeth to auow, in Spanish Mijo, in French Millet , and in Dutch Hyers, where they make pottage of it and bread. The Ruffians and Duscoulans are chiefe Ip nourished with this kinde of pottage, which they make with the flower mingled with milke, and the blod that they let from their horles. The men of Ind, as Plinic farth, know no other graine but Barley and Dillet, which grew in his time plentisfulleft in Campania, it is the beft leanen that may be made, neis ther is there any graine comparable to it for waight, that more increaseth in baking: for of one bulbell hath bin drawen threscore pound of bread, a bulhell of fodden meat, made of this quartes wet and busod. It is solved at this day in every place, though very little in the low Countries: it groweth with a falke full of topnts, a cubit high, a leafe like a reede, a round and a finall feede hanging bowne in long rimmes with many tops : it groweth sometime senen fote high, it belighteth in a watrilly mozy ground, and in gravell, fo it be now and then overflowne, it hateth bate and chalate grounds. Some giue counfell to fowe it first in a cold and wet ground, and then in a hot ground : befoze the Spaing pou must not sowe it, fozit delighteth much in warmth. A little fiede of it, is fufficient for a great deale of ground: if it be fowed thicke, it comes to nought: a great handfull will ferue a whole Acre, wherefore in raking, you must rake out what is more then

then nædfull : an acre beareth fourtie bulhels, if it be well fowed. euery fiede peldeth about a pottell. It is fozbioden to be fowne as mong Mines of fruit Trees, and mult continually be weded and raked. When the eare is full growne, it must be gathered with the hand, and daped in the Sunne, lest the hot weather hatter the fædes. This graine may very long be preserved, for being well layd by where the winde cannot come, it will well last an hundzed pære. There is another like graine that they call Indian Willet, with a great graine, and a blacke and big redy falke. which was first brought into Italie in the raigne of Nero, which (as Plinic faith) was called Loba, whereas Loba are rather the Tods of all Dulle, and Phobæ, the manes and toppes of Willet, as it appeareth by Theophrastus. Panicum is called of the Breks Edunos, of the Dutch Plennich, oz Heidengreisis, of the Italie ans Pannacho, the Spaniards Panizo, the Frenchmen Paniz, fo called of the little Pannicles, wherein the feed lieth. It commeth by like Willet, with many leanes, and Aippes, glittering with a reddill bulhie top, full of liedes, like Bultard liede, some pellow. purple, blacke, and white: it must be ozdered in all things almost as Millet: being fowed in Sommer, it is ripe in forty dayes af ter : in other places folved in Day in wet ground, it is to be gas thered in September. The harnest, and the vie of it, is almost all one with Willet, neither can it, as Willet, be fined without parching: when it beginnes to spinble, it must be well weeded, least the wedes overgrow it : being well deeft with Chefill and Dilke, it maketh indifferent god meat: in bread it is not fo much vied as Willet, for the bread is very drie, and crumbleth like Sand of Athes, being altogether without moissure of cleaning: but the common people remedying that with Larde or Dyle, do make a thift with it as well as they can. They that dwell about Pontus, are fago to effeme it abone all other fode, asthe people of Navare boe at this day. In many countryes it is bled onely to fade Pigeons withall.

Rife.

Df the number of outlandish graine, is Kile, in shape as Theophrastus sayth, like Darnell, having a bushie toppe like Willet or Pannicle, but no eare: his graphe is like the kinde of Barley, called Zea, the leaves are thicke like the leaves of Likes, but broader, the stalke a cubit high, the source purple. This graine is

but

but geason in Fraunce and Germanie, but in Italie and Lump bardie common, where it is called Elriso, and Menestro Delriso, the French men leaving the first letter, doe call it Rison, the Grækes Egusa, the Spaniards call it Arross. Plinic supposeth it to be engended of the water Sedge. There is made of it Furmentie, as Horace calles it, Kise Furmentie. It is sowen in Parch, as Pillet and Pannicle is. The Indians (they say) doe bense it before they sowe it, to make it the lighter of digestion. And as Strabo reporteth, they make drinke of it.

RIGO. What say you to Scsamum, that was greatly in vie

in the olde time ?

CONO. Sesamum is named with the Brækes σύσαμου, the Sesamum. Italians Sesamo, the Spaniards Aionioli, the Frenchmen Iugiolin. In times paft, it hath beene moze bled and greatly commended, both of Columella and Plinie. At this day it is knowen to a very few, as a great fort of feedes elfe are, in fo much as the very come that we daily fied of, we fearcely know what it is. Some reckon it in the number of Graine, and some of Pulse: the Stalke there. of is not like Pillet or Pannicle, full of toynts, but playne and Smoth, like a rede, the leaves thereof rudoy, the feed white, not le bigge as Linfed, and is contained in little knops like Poppie: it is fowen befoze the rifing of the feauen farres, after the mans ner of Italy. Columella fayth, that he hath fæne it in Cilicia and Syria fowed in June & July, and reaped in Autumne. It requires a mellow blacke mould, though it will grow byon good fandy ground, forced ground, raine is hurtfull buto it after it is folved, where as it both god to all other Graine: no great Cattell noz Mermine will meddle with it, it hurteth ground very much, bee cause of the great quantitie and thickenesse of the stalke, and the number of the rotes. Plinie waiteth, that it was brought out of India, and bled both for meate and oyle. But to returne to fuch graine as we are acquainted with. Amongst the sommer fædes is Piscelin to be reckoned. The husbandmen doe somes time make a medley of fundzy forts of fædes, and sowe them partly for Cattell, and partly for hope that though some of them faile, pet some will growe. But here must you beware, lest you mingle not winter Come and sommer Come together, for that were a great overlight, and one of them must nedes perith. Some

Some barley may well be mingled with Dates or Buck, as well for brewing, as for fixeding of Cattell: and Aares or other like Pulse may be mingled with Dates, as very good for beafts. They are to be sowed in time and place as I have tolde before, in my severall entreating of them.

Rico. You have well satisfied mee foz Graine and Cozne,

you may now (if it please you) doe as much in Pulse.

Of Pulce.

CON O. Pulle or Dedware, is called of the Brickes coneia. the other parts of the fruites of the ground : of these there are funday fortes, as you have fiene of Corne: fome put Willet. Wans nicle, and Sclamum, to this kinde, because Columella sometimes puts them in the number of Graine, and fometime of Bulle: but I following Plinie herein, doe put them amongst the kindes of Graine, accounting those to be Bulle, whose seedes are contained in coddes, as Beanes, Deale, Lentiles, Tares, Chyches, Fitches, and fuch like, which all are to be fowen in the fpzing. Dfall kinde of Bulle, the greatest honour is due to the Beane, as Plinie witnesseth, as to a Bulle that is most commodious for man and beaft. In Breite it is called núa uoc, in Italian and Latine Faba. in Spanish Haua, in French Feue, in Dutch Bonen. This amonate all other Pulse groweth in height without any stap, it hath a thicke leafe, a created flower of divers colours, spotted white and blacke, which Varro calles the lamentable letters: it hath a long coode, his fruit within broad, like the nayle of a man, of die uers colours, it appeareth at the first with many leaves like a Deale, and not with one alone, like Wiheat. It is lowed first of all other Pulse in the spring time, as Virgill will have it, and timely, because of Fabalia, which is the offall of the Beanes, for both the cods and the falke, is a fode that cattell much delights in. Columella reporteth how he heard a skilfull husbandman say, that he had rather have the offall of Beanes timely sowed, then the Crop of that which is ripe in their moneths, you must some their in the encrease of the Done, and after once plowing. It is said, that if they bee enclosed in Goates doung and sowed, they will pielo great encrease, and the parts that are eaten or gnatone, in the encrease of the Done will fill by againe. If they be solved niere to the rotes of Trees, they will kill them. Some holde opis mion, that if they be freped in Capons blod, they will be lafe from

Beanes.

all burtfull weedes, a that layed in water a day or two before they be soiven, they will grow the soner. The Beane delighteth in rich & well bunged ground, as all other Pulse both: wet and low ground it doth not refuse, though all the rell defire daie ground, it maieth not wieding, being able to overgrow them. De all other Bulle it onely springeth with an brright stalke full of knots, and hollow. And whereas at other Pulleare long in flower, this flowreth longest, flowzing fortie dapes together, one stalke beginning when others end, a not all at one time as wheat, they cod in fund dry dapes, the lowest part of the stalke flowing first, & so boward Will in order. So fruitful are they in some places, as you thall find one stalke to beare a hundred beanes. The Beanes sticke close to their Tobs: the blacke in their tops, the Latines call Hilum, the coos Valuuli, the warmes that baced in them, Mida. Lomentum is the meale which the people in olde time did ble for the imothing of their (kins. Frefa Faba was the beane that was but fmally bad tien, and hulled in the Will. Refrina was that which they bled to offer in facrifice for good lucke with their Come. It is good to free pour Beanes in the water of Saltpeter, a day before pour fold them, you that keep them from Wiyuels, as (Palladius faith) if you gather them in the wane of the Bone, s cheriff them, s lap them by before the encrease. Beanes, and all other Bulle doe mend the around that they are fowen in. The next to beanes in worthines and folving, is Beale, called in Grieke miros, in Italian Pife, and Peale. Pifelie, in Spanish Aruera, in French Pele, in Dutch Errettem, a Bulle that groweth with hollow stalkes and full of branches lye ing upon the ground, many leanes and long, the cobscound, containing in them round fedes and white: though Plinie write, that they be cornerd as Chych, of which fort we have some at this day blewith, with flowes in shape like the Butterflie, purple coloured toward the mioft. There are two forts of peale, the one fort co. neteth to climbe aloft, trunneth bp bpon flickes, which with little winders he bindeth himfelfe, & is for the most part only fowen in gardens: the other fort groweth low, a creepeth byon the ground: both kindes are bery good to be eaten, specially when they beyong and tender, they must be folune in warme ground, for they can in no wife away with cold, they are folved eyther byon fallowes, oz rather in rich and percely bearing ground once plowed, and as. all

all other pulle, in a gentle and a mellow mould, the feafon being warme and moult. Columella fayth, that ground is made bery rich with them, if they be presently plowed, and the conster turne in, and cover that which the Doke hath newly left. They are fowed among fummer Corne, commonly with the first. First Weanes, Deale, and Lentiles, then Tares and Dates, as is faio before. Peale and Wares muft be lowen in Barch and Aprill. and in the wane of the Done, left they grow to ranke, and flower out of order, whereas the best sowing for all other pulse & graine, is in the encrease of the Done. There are that count Pease to be the Pulle that the Grækes call deosos, the Latines Eruum, the Italians Eruo, the Spaniards Yeruo, the Dutchmen Eruen, of which there are two kindes, the one white, the other red. The latter is wilde, and groweth in hedges and come fields: it is a fmall plant, having his leaves narrow and flender, his flowe epther white, or medled with purple, growing nære together like Deale, there is no great bufineffe about it: it delighteth in a leane barren ground, not mouth, for it will be spilt with to much ranches neste: it must be sowed befoze March, with which moneth it as greeth not, because it is then hurtfull bnto Cattell. Eruilia is a pulse like small beanes, some white, some blacke, and others spece kled, it hath a stalke like pease, and climbeth like a Doppe, the Coddes are fmoth like Peafcods. The leaves longer then the leaves of Beanes: the flowige is a pleasant fode to 18es. In France and Lumbardie it is called Dora, 02 Dorella. Phaseolus in Latine, in Græke oudas unacia, garden Smalar, some call it Faliolum, among the Italians fomecall it Fagiuoli, some Smilace, de glihorti, others Faginolo Turcheles, others Lafanio, the Spaniards call it Frisoles, the Frenchmen Fasioles, and Fales Pinccos, the Dutchmen Facelen, oz wilde bonen. It is a kinde of Pulse, whereof there are white, redde, and yellow, and some speckled with blacke spots, the leaves are like Juic leaves, but some thing tenderer, the stalke is stender, winding with claspes about such plants as are next him, running by so high, as you may make Arbours buder him: the coddes are longer then Fennigræke, the Graines withindiners coloured, and falhioned like kidneyes: it prospereth in a fat and a perely bearing ground, in Gardens, og where you will: and because it climeth alost, there

there must be fet by them poles of stanes, from the running to the tops, it climbeth boon trees, feruing well for the Madowing of Arbours and Sommer houses. It is sowen of divers from the Des of Daober to the Halendes of Pouember in some places, and with be in Parch, it flowseth in Sommer, the meat of them is but indifferent, the imprenot very good, the cods and the grains are eaten together , og like Sperage. The Jewes fell them at Mome, preferned, to be eaten rame. Lens and Lenticula, in Bricke Lyntles. φακίς and φακά, in Italian Lendi iz bon manaftre, in Spanish Lenteza,in French Lentilla,in Dutch Linfen,isa pulle bery thick and buthie, with leaves like the Eare, with thee or foure very fmall graines in enery cod, of all Pulles the leaft, they are foft and flat. The white ones tor their pleasantnesse are the best and fuch as are apteff to feeth & confume most water in their boyling.

It is sowne with be in Germanie, in Parch and in Appill, the Mone encreasing, in mellow ground, being rich, and daye : pet Plinic would rather have the ground leane then rich, and the feas Con drie: it flowseth in July, at which time by ouermuch ranchnes and mopfture, it some corrupteth. Therefore to cause it quickely to fpring and well to profper, it must be mingled with dry boung before it be fowen, and when it hath I pen fo mingled foure or fius - dayes, it must be cast into the ground. It groweth high (as they Cap) When it is wet in warme water and faltpeter, befoze it be fowen, and will never corrupt being fprinckled with 15 engwing and Wineger. Varro willeth, that you low it from the five and twentie day of the Moone to the thirtieth, so Challit be fafe from Snaples. And Columella affirmeth, that if it be mingled with aches, it will be fafe from all annopance. Cicer in Latine, in Breke egésiv 905, in Italian Ceci, Cicere Rollo, and Cicere biance, in Spas nith Garuangos, in French Chiche, and in Dutch Cicererbs, is a Ciche. buthie kinde of Pulse, haning a round Cod, & therein a couple of thee cornerd fedes, whereof there are that make thee kindes. white, red, and black, differing onely in the colour of their flower: the best kinde hath a flickie stalke, croked, little leaues indented, a white, a purple, or a blacke flowre. And whereas other pulse have their Cods long and broad, according to their feede, this bear reth them round : it belighteth in a black and a rich mould, it is a great spopler of land, and therefore not good for new broken by ground :

ground: it may be sowen at any time in Warch, in rainte weather. and in very rich ground: the feed must be steeped in water a day before it be somen, to the end it may spring the soner: it flowreth in June and July, and then falleth to feede: it flowzeth a berpe long while, and is gathered the fourth day, being ripe in a very Mozt time: when it is in flowie, of all other pulse it receiveth. harme by raine: when it is ripe it must be gathered out of hand, for it scattereth very some, and lieth hid when it is fallen. In the Thich there never briedeth any worme, contrary to all Bulle elle: and because it defueth away Caterpillers, it is counted good to be Cicercula, fet in gardens. Cicercula in Latine, in Greite doi Jugos, in Itae lian Cicerfe,in Spanish Cizerche,it differeth from the Chich, only in that it is somewhat blacker, which Plinic accounteth to have bneuen corners, as peafe bath: and in many places about bs, they ble them in ffeo of Peale, efteming themfarre aboue pealon : for they both viels more flower then peale, & is lighter of digellia on, and not fo subject to wormes. Columella counts it rather in the

Tares and number offodder for Cattell, then of pulle for man: in which nump

Cattell.

fodder for ber are these that follow. And first, Vicia in Latine, in Greeks Binenov, in Dutch Wycken, in French Vellac, fo called, as Varro thinks, of winding, because it hath tendzels oz claspes, as the Uline hath, whereby it climbeth byon such stalkes as grow next it: it. groweth halfe a pard high, leaved like Tintare, laving that thep be something narrower, the flowie like the flowie of Dease, has ning little blacke feedes in coos, not altogether round, but broad like the Lintell: it requireth a dive ground, though it will also. grow well enough in hadowy places, or in any ground, with smal labour, being not troublesome to the husbandman: it requireth, but once plowing, and loketh for neither harrowing nor dunging, but enricheth the land of it feife, specially if the ground be plotned when the crop is of, to that the falkes may be turned in: for others. wife therotes and falkes remaining, do lucke out the godnelle of the ground: yet Caro would have it somen in graffie ground, not watriff, & innew broken-bp ground, after the seate be gone, and the moissure dried by with the Sunne & the winde. You must beware that you sowe no moze, then you may well cover the same day: for the least deale in the world both spoyle it. Reither must you sow them before the Done be twentie-foure vales olde, others

otherwise the Snaile will benouve it : his time of solving is, as Plinic waiteth, at the fetting of the farre, called the Berward, that it may ferne to feed in December: the fecond folding is in Januas rie: the laft in Warch. In Germanie they ble to low them in Barch oz Apzill, chiefely foz fobber foz their Cattell. To fow Tares, as Plinic faith Beanes in not broken by ground without loffe, is a great piece of hulbanday: they flower in June, at which time they are very good to scowe Worles : it is good to lay them by in the cod, & to heepe them to ferue cattell withall. Tares and Dates make a god medine foived together. Lupinus in Latine, in Lupines. Breke Jegudgunegog, in Italian & French, almoff as in latine, in Spanith Altramuz, in Dutch Roomsche Boonen, is a Pulse has uing one onely talke, the leafe tagged in fine dinifions lik a Carre, the flowe white, the coos tagged, findented about, hauing within them fine og fire feedes, hard, broad, a red, the leanes therof Do fall. This Bulle requireth least trouble, a is of small price, and pet most helpeth the ground of any thing that is fowne : for there can be no better manuring foz barraine Ainepards & Come fields then this, which either bpon barraine ground prospereth, oz, kept in the Garner, endureth a wonderfull while: being fodden & laid in water it fedeth Dren in winter bery well : in time of bearth (as Columella faith) ferueth men to all wage their hunger: it paos spereth in sandy e granelly grounds, in the worst land that may be: neither loueth it to have any labour bestowed byon it, noz waigheth the goones of the ground. So fruitfull it is, as if it be talk among Buthese Bziers, vet will it rote and profper : it res fuleth both harrowing and raking, & is not annoyed with weedes, but killeth the wedes about it. If dung be wanting to mend the ground withall, this ferues the turne aboue all other; for being Towed, and turned in with the plow, it serueth the turne in fread of dunging : it is fowed timelieft of all other, and reaped laft : it is fowed before all other Pulle, a little after Parueft : concr it how Henderly you will, it careth not (an excellent god feede for an enill husband) pet desireth it the warmth of Autumne, that it may be well roted befoze winter come, for other wife the cold is hurtfull untoit. It flowzeththaile, firft in Pay, then againe in June, and Taft in July: after enery flowing it beareth his coode. Wefore it howzeth, they ble to put in cattell: for where as they will fiede noug

byon all other graffe or wedes, onely this for the bitternes theres of while it is græne, they leave butouched. Being dzied, it ferueth for full enance both of man and beatt to cattell it is given medled with chaffe, and for bread for mans vie, it is mingled with wheat flowie, oz barly flowie: it is very god to keepe it in a fmoke loaft, for if it lye any thing mort, it is eaten of little wormes, and thereby spopled. The leafe keepeth a certaine course and turs neth with the Sunne, whereby it theweth ever to the hulband. Fenugreek man even in cloudy weather, what time of the day it is. Fenum grecum in Latine, in French Fenegres, and Fenigrent, in Italian Fanigraco, in Spanish Alholuas, in Dutch sometime by the Latine name, and commonly Rohome, and Lockshorne: commeth by with a small Calke, the leafe like a the deauch graffe, it is fowed well in a flender barren ground, you must take hed you plow it thicke, and not very depe, for if the fied be couce red about foure fingers thicke, it will very hardly grow. There. fore the ground must be tild with small Plowes, and the feed pres fently concred with Rakes. There are two forts of it, the one called of the common people Siliqua oz Coode, which they foin for Fodder in September, the other in January, or the beginning of February: when they fow it for feede, it flowseth in June and July, when also it beareth his Codde, but the seede is not ripe till August: it is dressed to be eaten after the order of Lupins, with vineger, water, and falt, some put to a little ople: it is bled both for fooder, and divers other bles. Furthermore, of Bulle called of Gellius, Legamenta, we have thefe generall rules, that they all beare cods, thave fingle rotes every one, except the Beane, the Chich grolving depett. The stalks of the beane & the Lupine is: alfolingle, the others are all full of branches and flender flips, and all hollow. All Pulle for the most part, are to be sowed in the spring, and require very rich ground, except the Lupine, that cares not where belies, they are all sowen in the encrease of the Monc, ercept Beale: if they be watered befoze their folding, thep profect the better: they are speedily to be gathered when they be ripe, for they suddenly hotter, they will endure longest, being gathered in the change of the Pone. It is much to be regarded whether you will kiepe or fell them, for the fieds in the encrease of the Mone

doe ware greater, there are that preferue them in earthen beffels,

**Urawing** 

Arawing alhes buder them, and sprinckling them with Wineger: fome vie alhes alone, others vie to fpainchle them with 25 erges win vineger, as I have late of the Lentill. Dozeoner, the Greekes have willed to mingle with the dung a little faltpeter when you fow them, whereby they mail the better feeth and be the tenderer, and if they be not presently tender, they will to call into the pot a little Duffard feed, which will make them Araightway well. Theophraitus addeth diners things belide, which were to long to

Rico. Is it neofull for energ husbandman to sow all these

Graine and Duise in his ground?

Cono. Po: but as I sayo before, in speaking of ground and feed, you must chiefely sow such as best agree with the nature of your ground : howbeit, there are some of them that refuse no ground. There are certaine of them, as Varro layth, that are not fomed for prefent necessitie, but for other afterturnes. And others againe that are of necellitie to be fowen, as Toane for man, and Fodder for Cattell : of which must speciall care be had, that there be no want of them, without which wee can not line: as Rie, Dates, and Buck. Lupines, and certaine Bulle eile, for fooder, refuse no ground, though it be neuer so barren. Besides, when as Fodder the husbandman must not onely have a care of prouting such for Catas ferue for the fuftenance of man, but also for such as ferue for tell. the feeding of pore Cattell, without which the ground cannot be husbanded: therefore must be soive Bulle for the ble of man and beaft, and Fodder in moze abundance for the fuftenance of beafis. Among all forts of Fodder, that is counted for the chiefe and the belt, which the people of olde time, & the Italians at this day call Medica, some call it Treesoile, the Frenchmen call it Grandirefle, Medica? the Spaniards Alfalia others call it Burgundie-graffe, because it was brought in by the Burgundians, it is now also come into Bermanie, and there called Welsholken. Plinie waiteth, that it was brought by the Romanes, out of Media into Italy, differing almost nothing from Tryfolly, or threeleaned gralle : but that it · is greater, higher, and ranker, foz in Calke, leafe, and flowige it is all one: it groweth altogether bulhing in leaves. In the toppe of the falke it putteth forth hortcoodes, writhen like hornes indens ted about, and having as it were, little prickles, wherein is the feed

lieve thaped like a Done, and growing to the Cod in bignes as the lentill, which being chamed, tafteth like Deale: enery cod hath his fede, it requireth a fat ground without Cones, full of iupce and rich in many places it commeth not bp, in others it fpzingeth berg thicke. Varro gineth charge, that it be not fowed in to by a ground or tickle, but in goo and well feafoned. Plinic would have the ground be days and very rich. Columella biodeth, that the field, where this Medica Hall be folved, thould be broken by about Daober, and fo to lie mellowing all the winter, and then to Airreit in February, & the Aones cast out, to harrow it well, and after in Barch to ozder it garden-wife, calling it into beds, every bed ten fote broad, and fiftie in length, fo that they may be eafily watred, and of enery five well weded: then laying on god old doung, let it lie till Appill, and at the end of Appill fowe it in fuch proportion, as enery handfull of feed may occupie five fotein breoth, and ten in length, and couer the feed out of hand, raking them with woven rakes, for the Sunne will cone burne them. After it is fowen, that it come by an inch in height, you mult be ware you touch not the ground with any you intrument, but epther with your fingers, or with Kakes of wood: wede it well from all other noviome things, otherwise it will grow wilde and turns to patture. Let the first harnest be long deferred, to the end he may somewhat shed his sædes: at other times you may mole it as some as you will, and give it to your Tattell. Such as are fhilfull in hulbanday, doe fay, that if you mingle Dates with the feed of Medica, and fow them, they will cause them to Bock bery well: it is folded in Appill, or later in May, to scape the frosts, and the sæd is calkin like forts as wheat is. When it beginneth to branch, all other wedesmuft be weded away, and being thus or dered you may mowe it fire times a piere. It flowseth fire times, or at the least five times, so it be not cut. When you have mowed it, water it well, as it springeth, wede it agains. And thus as I fayd, you may mow it fire times a piere, and it shall thus continue ten peresitogether, it enricheth the ground, all poze and feeble Cattell are soone brought up with it, it likewise healeth Cattell that are difeated, but when it first springeth, till cattel be acquainted with it, you mult give them but little at once, least the stranges nelle of the foods burt them for it maketh them to fivell, and bree deth!

beth great abundance of blood. Columella writeth, that one acre of it will well Ande thee Poeles a giere. In some Countries this bearbe both growin great plentie in every Dedoow, eyther of the nature of the ground, or through the bisposition of the Deauens, and fometime the relickes of that which bath beene long agos fowen both perely fpring of the feede that falleth, & ouergrowen with Graffe and weedes, both change into Deddow. I fee no saufe but that it map grow of it felfe, but that perhaps such Plantes as are brought out of ftrange Countries require folding and defling: it is belt to be momed when it beginneth to flowie, for it must not be suffered to led, whereby the Fooder Shall bee the better: which being well land up, will continue in goodnelle the pieres, to the great profit of the grafter, for as I have layd befoze, there can be no better Fodder Deuiled foz Cattell, where with they will better feede, and fooner rife. The nert in goodnes to this Medica is Cytifus, wonderfully as Plinic writeth, commens Cytifus. sed of Aristomachus, and as Virgill fayth, a good fooder for Shape, and being bie, a belightfull food to Smine: it may be mowed funday times in the piere, to the great commoditie of the husbandman : a little whereof both soone fat by cattell, neither is there any other graffe that pieloeth epther moze abundance oz better Wilke, the most foueraigne medicine for the fickenesse of Cattell that map be: befide, the Philosophers promise, that Bies will never faile that have this graffe growing nere them: there forettis necessary to have your ground stored with it, as the thing that belt ferneth for Poultrie and Cattell : the leanes and fiedes are to be given to leane and drouping Bullen: some call it Telinen, fome Trefoile, fome great Delilot, the Romanes call it Trifolumaius, great trafle, it is a plant all hairp and whitish, as Rhamnus is, haufng branches halfe a pard long a more, whereupon groweth leaves like buto Fenigræke og Clauer, but something lette, having a rifing creft in the midft of them. Whis plant was first found in the Bland Cythno, and from thence spread through out the Cyclads, and fo to Grecce, whereby the Roze of Theele came to be great: neither is there any countrep at this day, where they may not have great plenty (as Columella faith) of this fhaub. In Italy it groweth about the enclotiers of bineparos, it thainketh neither for heat, colo, froff, nor inow it requireth good ground, if the meather

weather be very day, it mult be waterd, and when it first fraings well harrowed: after the pieres, you may cut it downe, and give it your Cattell. Varro would have it fowen in well 020210 ground. as the fiede of Colehouts thould be, and after remoued and fet a fot and a halfe alumber, or else to be set of the flips. The time of fowing of Cytifus is either in Autumne, oz in the fpzing, in ground well plowed and land out in bets: if you want the feed, you may take the flipe, so that you let them foure fort asunder, and a bancke cast about them with earth weil downged: you may also set them before September, when they will very well grow and abide the colde in winter, it latteth but the piere. Columella hath two kindes of Cytifus one wilde, the other of the garden. The wilde both with his claspers feeds very well: it windethabout, and kils his neighbours as the Jute both: it is found in Come fields, spes cially amongst Warley, the flower thereof is like the flower of Deafe, the leafe, if it be baufed, smeileth like rocket, and being champed in the mouth, it talteth like Thiche, or Peale. There is an other kinde of Fooder among the plants, buknowen to the olde writers, very good to feed both Cattelland Poultrie. I know not whether it be knolven in other Countries befide Germanie, the common people call it Spurie, or Sperie : it hath a stalke a. fote in height or more, buther forth in many branches, it hath a white flower without any leafe: the flower endeth in little knops as flare hath, containing in them a very little feedlike Kapeleed. They are much decemed that take it for Cytifus, when that (as Dioscorides faith) hath leaves like frenugreeke, and this is altogether without leaues : neither is the feed any thing like, though the vie be almost one. The best mitte and butter in Germanic, commeth of this feeding : wherefore it is chamed almost as god as Warley,02 other graine: the Araw is better then any Dep: the chaffe fedethas well as any graines: the fed fedeth Digcons and Poultrie in winter palling well: it is sowed in fandie and light grounds all the Sommer long, and some some it in Spring time with Dates for the feede fake: in Autumne and Parucit time it is solved to fiede Cattell: it is profitable for Husbandmen that owell in landy and granelly Countries, wherefore they Mould never bee without good froze of it, for Hennes, Bas, Goates, Shoepe, Dren, and all kinde of Cattell delight bery much

Sperie.

much in it: now remaineth the sowing of Flare and Hempe.

Rico. Ilmkefozit.

Con o. These, although they be not to be received in the num. ber of Come nor Pulse. Fooder nor Hearbs, yet is there great account to be made of them with the hulvandmans things, with out which no house can be furnished, noz man well apparrelled: which being beaten to a softnesse, serueth for webs of linnen, and twilling of Cozds: and moze, of this to little a fiede doth fpzing that, which (as Plinie faith) carrieth the whole world hither and thether, that bringeth Egypt to Italy, & carrieth bs from Cales to Oftia in 7. daies. Linum in Latine: in Bricke, ywov in Italian and Spanish, Lino: in French Dulin: in Dutch almost like, sauing that they call the feed Lin. And the plant Flaxe, is a very common Flaxe. hearbe, wherewith women are let a worke: it hath a flender Kalke, not much bulike to Spery, but that it groweth higher a little, and bigger, with narrow leaves, and long blew flowers in the top, which falling away, leaveth behind them little round knops as big as a peace, wherin are enclosed pellow fæds: it belighteth in rich ground, fomewhat moilt: some sow it in barraine ground, after once plowing, it is fowed in the spring, and gathered in summer. In Gelderland and Gulicke, where there is great Coze of it: they fow it about the beginning of May: there are againe that obferue thee featons for folding of it, as the weather shall fall out, for it requirethraine & moissure: the ripenesse of it is perceived by the waring yellow, & swelling of the knops that holo the feed, being then plucked by, and made in litle bundles, it is dayed in the funne, the rotes Canding opward, that the fiede may fall out. Some ble againe to card off the knops with an your combe & days ing them in the funne to gather the feed. The bundles afterinards are laid in water heated with the funne, with some waight bpon them to keepe them downe, the rinde waring love, the weth when they have beene Weped enough. Then the bundles bniwled and deproin the fun, are beaten with beetles, when as the outer rinde is pilled off, and combed thacked byon anyzon combe; the moze wrong it suffereth, the better doth it proue : the towe is senered from the flare, and appointed for his vie, so are thep severally foun byon the diffaffe, made by in bottomes, and fent to the weas uers, whereof are wouen webs, to the great commoditie of all MILERE

men. Last of all, the web is laid out in the hot Sunne, and spained led with water, whereby it is brought in a passing whiteness. It may be remembred, that not long since the women of Germanie knew no costlier attyre. The best Flare that is at this day, is brought from Puscouia, Liuonia, and those Countries, far excelling ours in height and gwonesse, except there be great encrease of it, and plentie in the Countrey where you dwell. Columcila would not have you meddle with the sowing of it, sor it is most hurtfull to the ground, as Virgill hath noted.

Flaxe, where it growes doth burne the Field.
The like doth Oates and Poppey yeeld.

And therefore (but that women must have some things to occupe their hands withall) it were moze profit to fow the ground with Tozne, and to buy linnen abzoad, especially if you waigh the burt of your ground, the charges of the making. Hempe, in latine is Cannabis, in Bzethe nerva Giç ingegos, in Italian, Canabe, in Space nith Cannamo, in French Chamura, and in Dutch Haueph, is a plant of the Redich kinde, having a very Arong lauour : it grolps eth with a fingle Ralk, a many times to fuch a height, that it mate cheth with indifferent trees: it is of great necessitie for the ble of man, and serueth both for making of Canuas, framing of ropes: the Stalk hath many knots, out of which proceedeth branches with narrow leanes indented & tharpe. Diolcorides describeth both the wilde Bempe, the garden Bempe, to haue leaues like the Athe, hollow stalks, a ffinking fanour, eround feed. There are two kinds of it, the spale, that is without flowie, & beareth a fiede of fundip colours : and the Female, that, to recompence her barrennelle, both yeld a white flower. It is folved in Bardens, Dzchards, oz other god ground, (as Plinic would have it) after a Southwest winde, with voit is sownein the end of Appill, for it cannot away with cold : some sow it at the rising of the star, called the Berward, which is at the end of February, or the beginning of Parch: it loueth rich ground, well sunged & watred, and bepe plowed: it is naughtie sowing of it in raynie weather, the thicker you sow it, the tenderer it will be, and therfore many times it is fowne thrife, though some there be that appopnt to enery fot square sire seds. The Female, or firble hempe is first pulled by, afterward the Pale, 92 the earle, when his twoe is ripe, is plucked by, and made

Hempe.

made op in bundels, layd in the Sunne for three or foure dayes, and after is call into the water, with weight laive open him for eight or tenne dayes, till he be sufficiently watred, and as Flare, till the rinde ware lose: then taken out, it is dried with the Sun, and after broken in the brake, and then combed and hacked for yarne and Ropes. Of Hemp, are made Cables, Cords, Pets, and Sailes for Shippes, garments for Labourers, Shirts, and Shietes: the Cales or Calkes serve for heating of Duens, or kindling of fires.

Fraunce, I remember an hearbe planted of the common people

with great biligence, that scrueth as they faid for Diars.

CONO. Poulay true, that hearbe Celar in his Commentas ries of the warres of Fraunce, calleth Glaftum, in Breeke ioanis Woads. ingepos, in Italian Gnado, in Spanish Paste, in French Gudum, and Guelde, in Dutch Weye: the Diars doe ble it, and with them it is greatly elemed, & great gaine arifeth thereof buto the people of Welberland, Julies and Turin, & diners Countries elfe: the leanes as Plinic witeth, are like buto Dock leanes, Diofcorides writeth of two kindes, the wilde, and the Garden Woade, laying. that the Barden Totoade which Diars ble, haue leaues like Blane tine, but fomething thicker, and the wilde leanes like Lentill, with vellow flowers: with this hearbe Ccfar, faith the people of Eng. land, were wont to paint their faces and bodies, to fæme moze terrible to their enemies: it requireth like folding and foile as Taheate both : but it is a great foker of the ground, and much burteth it: it would have a very rich and a fat ground, and well bigged : for the ground were better to be turned by with fpabes then with Plowes for the folding of this plant, it must be bery wel weded. It is fowed in Belderland in Appil, and after the common peoples rule, in Caller wek: at the first fallowing they marle the ground, after fowe it : you must be very hedefull in the wee ding of it. When it is growen a handfull hye and moze, they ful fer it not to flowee, but with an instrument for the purpose, they cut it close by the rote, wall it, and carry it to the Will, and luffe. ring it to grow againe, they cut it thee or foure times, and fo leaus it to febe. The greene hearbe they grinde in Willes ithe Apple Mils prefling it til they get out al the fuice therof, then roule they it

by with their hands in round balles, and so lay it byon bozbed Awres to be daped.

R 1 G 0. Dou have greatly belighted me, in bescribing buto me the order of fowing of fæds, without which, not onely the people of the Countrep, but also the Courtier and Citizen are not able to live : my befire is now to bider fand the order of harveft, the Country mans long loised-for-time, the remard of all his tople.

Harueft.

CONO. I will proceede in the accomplishing of your request. Withen the come is ripe, befoze it be scorched with the great heat of the funne (which is most extreame at the rifing of the leffer dog) it is to be cut downe out of hand : for delay herein is dangerous. First, because that birds, and other vermine will denoure it: and againe, both the Graine and the Care, the toppe and the fraw being brittle and over bry, will some fall to the ground: if Rozme or tempel chance to arile, the greatest part therof wil to the ground, and therfore it must not be lingred, but when it both loke pellow in enery place; and befoze that the Graine be thorow hard, when they come to loke reddiff, you must then have it in, that it may rather ware in the barne, then in the field. Experience teacheth, that if it be cut downe in due time, the feede will grow in fulnes as it lyeth in the barne : for the Mone increasing, the Corne growes greater: at the change you must gather such sede as you would hould be least faultie. Varro faith, that the best time for Parueft, is betwirt the Sunne ftay, and the Dogge dayes: for the Come they fap, both lie in the blade fifteene daies, flower reth fifteene dayes, and ripeth in fifteene dates. Amongst Graine Rape Har. and Pulle, the first that is to be gathered, is Kape febe. And bes cause the siede, when the cod beginneth to ware pellow, declareth ripenelle, it must be gathered out of hand : and sith the fæse will easily scatter, it must be lapo eyther in plaine smoth places in the Field, oz bpon Canualle : and if it be presently to be carried, the Mayne oz Cart muft be lined with thetes, left with logging and trotting of the carriage, the feebe fall thozow. Pou must take god hede as well here, as in all other Pulfe, that you prevent the rayne, for the rayne falling, the coos doe open. As some as your Rape lede is off, if the ground be plowed, you may fow Bucke, or 15 ranke, as they call it: fo that of one piece of ground in one yere, you may make two Parucks. Pert buto Rape haruelt in thele

ucit.

thefe Countries, followeth the harvest of Winter Barley, which Harvest is to be dispatched befoze the læde (the Gares being ouer oxied) de for Winfall, for they have not hulkes to containe them as Wheate bath. and the eares being brittell, will some fall : yet some thinke it best to let the Barley lie a while in the field, whereby they thinke the Graine will ware the greater. Then followeth the Bempe har, Hempharueft. But first (as I sato befoze) the Fimble or the Female, is pulled, and is dried a while in the Sunne, then (bound bp in bundels) it is throwns into the water, and kept bowne with some weight, that it swimme not aboue. After likewise the Pale, the fiede declaring his ripsnelle is pulled by, and the fiede being threathed out, it is call into the water, till the Kalke be loft : ale ter, being dried in the Sunne, it is made by in bundels to be knockt and haled in Winter evenings. Rye is to be mowed in Rie and June of Auly, and after that, Wheats. Po better rule, then befoze barueft. the Graine be hard, and when it hath changed colour. An old P20nerbe (as Plinie laith) it is better to have in harvest two dayes to sone, then thee dayes to late. In Rie there is not such feare in feattering as in Wheate, which as some as it is ripe, will thev with every winde. Wherefore god hiede must be taken, that you linger not with Tabeate after it is ripe : although Plinic afe Armeth, that Wiheat will have greater yield when it Kands long: but furely deferring of it is vangerous, as well for the denouring of birds and bermine, as for thattering and falling of the fiede through Norme and weather: as the profe was feene in the great windes that were in the piere of our redemption, 1567. Then The harfolloweth the harnest of Peale, Beanes, Tares, and Lentils, ac, west of all cording as they are timely sowed, wherein you must take hede, as and pulse. I warned you before in Rape fied, that they lie not abroad in the raine: for if they doe, they will open and lofe their fed. Last of all commeth the Haruelt of the other Summer lede, as of Bars lep, Parmicle, Pillet, and Dates. It is found by experience, that raine is goo for Dates after they be downe: for it causeth them to fwell and to be fuller, and to that end they are left in the field many times tino or three weekes after they be downe. RIGO. What ozder have you in your reaping?

CONO. There are divers forts of reaping, according to the Divers manner of every Country. Some with Sythes, which differ also fores of

as reaping.

as the worke requires. In this Countrey we ble three forts of come Sithes, for either we have a Sithelike a Sickle, which hole ben in the right hand, they cut the Araw close by the ground, and have in the left hand a long hoke, where with they pull together that that they have cut, and lay it in heapes: and in this fort Wilheat and Rie, and luch Graine as hath the Aurdiell Araw, is reaped. In other places as in Iulis, where the ground being berp rich, the Come groweth higher and rancker, there they hold their left hand full of Come, and with the right hand with tothed Sickles they cut it, leaning the fraw under their hands long, to belve the ground withall. In other places they ble a greater Sithe with a long Swath, and fenced with a croked frame of fiches, wherewith with both their hands they cut downe the Come, and lay it in Swathes as they doe Graffe when they mowe it, and with that they mow the higher forts of Come. Varro and Columella, and other, doe tell of funday other forts of reaping. Palladius teacheth, belide the labour of men, a thorter way to be done with an Dre, that thall in thost time cut downeail that groweth, which was wont to be bled in Fraunce. The denile was, a low kinds of Carre with a couple of whieles, and the Frunt armed with tharpe lickles, which forced by the bealt through the Corne, did cut downe all befoze it. This tricke might be bled in levell and champion Countries: but with bsit would make butill-fanoured worke. In reaping, you must regard to goe with the winde: for if you worke against the winde, it will be hurtfull, as Xenophon faith, both to your eles and your hand. If the Aralu be but Most, pon must goe never the ground, if it be long, you may put your Sickles to the middell to dispatch it the foner, & to make it thresh the better: and the Aubble boon the ground mult either according to Virgils rule beburnt, og rot bpon the ground, fog the bettering of the land, Some preferue that which is longelt, to thatch Barns, Stables, Tountrey Cottages withall. And where Hay is scant, it ferneth for fooding of Cattell: for Warley Kraw is a foo that Bullocks love well, and beside, all kinde of strawis god to litter withall. When the Come is downe, it is presently to be bound in theaues: although Barley, Dates, and other Come and Pulle is made by in Cops and Riches, but not without hurt and hazard. The Come being cut, is not to be had into the Barne presently,

Pulse: for if it be carried in before it be through dry, it corupteth and rotteth. Dates and Bucke, are longest lest abroad, as also so kentiles, Pease and Pulse, because they are longest in drying. Wheat may somest be carryed, if it be not mingled with two many wides, that hinder the drying of it. Then Paruest is in, the plowing ground must out of hand be ploived, both to kill the wides, and after Harto make it the mixter sor the next sowing. The Corne cut volume uest, and drie, is to be laid either in Barnes, Powels, or Stacks: and after in Thinter; to be trove out with Beatts, or threshed out with Flailes, and to be cleaned with Fannes.

RIGO. In Italy they ble to tread out their Corne with Cate

tell: the like reperteth Xenophon of the Breekes.

Cono. I have fine it my selfe, where they rather take Possethen Dren: and that time they also winnow their Cosne, thinking the Southwest winde to be best sos that purpose: but to stay sos that, Columcha thinketh but the part of a small husband.

RIGO. I fee you have very large Barnes, what order obs

ferue you in the building of them ?

be well brought into it, and se it be very close on enery side, leasuing open aspace for two dozes, a fore doze, and a backe doze, but so, as neither of them open to the Wick, but rather Porthand Cast, and at both sides of the slove bestow your Corne in severall tastes and mows, so that you may easily come to every one at your pleasure. And though the Corne be layd voon battes in the sloves, yet let there be a space lest in the midst, that may be open to the very top, that you may fetch what sort you list to be three shed. In some places they have a Pully in the midst, wherewith they hopse by the Corne to the very rafters of the house. In Hold land they have sew close Barnes, but all Houels and Stacks, so placed with hanging rosses by on posses, that with pinnes and winches, they may heighten it, or let it downe as they list.

RIGO. Those kinde of Barnes they say, are not so subject to

Dife and Mats, noz fo chargeable as the other.

CONO. Howsoever the Barne be, you must place it as high as you may, lest the Corne be spoyled with morture or

vamps: some thinks it better for them to be thatched then tyled: the largenette must be according to the greatnes of pour occupy. ing. Some, to the end Cats and Caegels may the better come by. they bo bault the floze with bricks, and laying rafters thereon, dolay on their Come. The flore muft be fapre and fmoth made. to as the Corne may be well threshed or troven out. Columcia would have the floze faire paued with flint oz flone, whereby the Come will the foner be threshed, and the awre not burt with bear ting and trampling of Dren, and when it is fan'd or winnowed. it will not be full of gravell and durt, as the earthen flozes pield. But we content our felues with our earthen flozes, well made, and of god earth, mired with a little Chaffe, and the grounds of Dyle; for this preferueth the Cornefrom Wife and Emets. You must make it very even and levell, and after it is mingled with Chaffe, let it be well troden, and fo fuffered to day. Dou muft here also from it Beatles, and Poultrie, which with trampling a fcras ping will make it rugged and bneuen. When the floze is day, the Come lato on it, is beaten out with flayles, and cleanfed with Fans, though in some place they rather like to tread it out with Dren, and to immow it after the old fathion, with the winde.

RIGO. Well Dir, when you have thus threshed your Corne.

what waies have you to keepe it from wivels ?

Garners.

Co No. The Garners, oz Cozne Lofts, wherein pour Cozne thus threshed and cleansed thall be land, mult stand high, that they map be blowne through with the Casterne & Portherne winds, to which no morture from the places adjoyning mult be fuffered to come: for the quarters of the heaven that are coldect and depet, doe both preferne Cornethe longest. In Spaine and Apulia, being hot Countries, the winde is not onely let in on the fides, by wins dolves, but also at the bottome by grates. Some againe preserues it in vaults buder the ground, where the day earth both cherish fuch fruites as the hath brought forth, bled as Varro faith, in Spaine and Carthage : and in our daves wie ble to kiepe both Wine and Graine in such baults. In Countries that are wet and watriff, it is better to make them in Garrets, as high as may be, having god regard that it be well walled and flozed. Mozeover, where as Corne is lubica to Miusls and Mermine, except it be very lafely land by, it will lone be confumed : theres

fore you must make with Clay, mingled in stead of straw, with Against hapre, then oucreast it within and without with white Potters breeding Clay: last of all, thepe the rotes and leaves of wilde Cucums of Wyucls.

bers in water two dayes, and with that Water, and Lime, and Sand, make Plaifter, and wash therewithall the walles within : albeit, Plinic counts Lime as hurtfull a thing as may be for Come. Some mingle with Lime the Urine of Cattell, as a thing that will destroy Minels of the leaves of Houseicke, of Morme, mod, or Goppes: but specially if you have it, there is nothing fo god to deftroy all fuch Mermine, as the dregges and bottoms of Dyle: some vie in the Read thereof, the pickle of Werrings. Dauing in this fort ordred their fælings , and their flores being Drie, they suppose that no hurtfull worme shall annoy whatsoo euer Come they lay in them. Some lay bnoer their Come, flies wort: others thinke it an affured remedy, if they be often fanned and winnowed, and thereby coled: but Collumella thinkes it untrue, and that by this meanes the Termine chall not onely be not beinen out, but they shall be dispearled throughout all the Corne, which if they otherwise be left alone, will meddle with no more then the outward parts, for a handbredth depth within, · there never bredes any Tuvuels, and therefore he thinks it bets ter to let that alone that is already corrupted, and will goe no further, then with farther medling to marreall: fogit is an easie matter, whenfoeuer vie nieve to occupy it, to take away that is tainted, and to ble the reft. But for all this, experience teacheth bs, that there is not fo god a remedy to delitroy the Myuell, as is the often fanning and winnowing in Summer. After the firft two pieces, they hold opinion, they will not meddle with Come: but I weary you with carrying you to much about, and if it please you, we will returne home.

RIGO. If it be for your eafe fo to do: otherwise there can be no greater pleasure to me, then walking abroad to heare you talke ofhusbanday. Are thefethat I fie your Pattures, where your fat Of Pasture

Dren, and pour Pares, and your Colts goe leaping.

CONO. They are lo I lay all my pastures severall, for every kinde of Cattell to be by himfelfe : in the hithermost that you fix, are my Cattell that I fat: in the nert are my Horses, my Bares, and my Colts : in the next are my young brede, Derelings, and I wos

dove.

Two yeardings. The Peddowes that you lie in yonder Walley, iye all to be Powed. Herenext to my house, are my Sucklings, that are brought to their Pams to sucke thrise day, and therefore ought to be niere; howbeit, such as siedesarre est, must dis ligently and baily be loked to, sor seare of diseases.

Rigo. Since I have troubled you thus farre, I cannot leave

till I bnder Cand all your orders.

CONO. Potrouble at all to me; but rather as I faio before, the recording hereof, is my great toy: for in talking of these mate

ters you bring me a bed.

dering of Pakures and Pedowes, when as there liemeth to be a great affinitie betwirt them and Come ground, and because they are sometimes also to be plowed, me thinketh this part re-

maineth to be spoken of.

Cono. With all my heart; 3 will fatiffe your defire in as much as 3 am able : and indied, fince I have all this while spoken of Come ground, it is not out of ozber to tel you my minde of Par Gure : & although Cato in some places both give the preeminence to the Uinepard: pet other old waiters doe most of all preferrs Pactures, as the ground that requireth least to doe about it: and. therefore they were called, as Varro faith, Prata, because they were Parara, allway in readines, a needed neither great charge noz labour. 1102 are in danger of Rozme or tempetts, as other kinde of ground is, except fuch parcels as lie nere Kiners. Flands, which are fornetimes overfiowed: and that discommoditie is sufficiently recompensed with the fatuelle that the water leaves behinde it, which enricheth the ground, and makes it the better perely to yield his gaine cyther in Pasture or Aebbolu. The Pastures with vs doe commonly ferue both for Paffure or Dedoo when we lift, specially in such places to here the ground is rich and date, which they had rather to employ to Pasture, because with dungs ing of Cattell, it wareth alwaies the better, whereas with cons tinuall bearing of Hay, it hath growne to be modie and naught: but inhere the ground is alwaies wet and watriff, there it is bets ter to let it lye for Dedow. Columella maketh two kindes of Pasture ground, subereof one is alwaies day, the other overdowed. The god and rich ground bath no niede of overflowing,

the Bap being much better that groweth of the felfe gooneffe of the ground, then that which is forced by waters: which some Time notwithstanding is needfull, if the barrennesse of the ground requireth it : for in bad and naughty ground, god Weddow may be made, if it lie to be over-flowne: but then must the ground neither lie hollow, not in hils, least the one of them keepe the was ters byon it to long, and the other prefently let it forth againe. Therefore lyeth the ground best, that lieth lenellest, which suffer reth not the water to remaine very long, not audioeth it to lone. If in fuch ground it chaunce to Cand overslong, it may be avoided with water Areame at your pleasure: for both onerplus, and the want of water are althe hurtfull buto Deddowes. It is very handsome, where dry and barraine ground lieth so by the Kiner, as the water may be let in by trenches when you lift: in fine, the occupping of Pasture grounds require more care then travaile. First, that we luffer not Bulhes, Thornes, nor great Wedes, to over-grow them, but to delivor some of them, as Brambles, Brices, Bulrushes, and Sedges in the end of Summer, and the other that be Summer wedes, as Soluthiftell, and all other Thistels, in the Spring. You must take hede of Swine, that -fpoile and turne by the ground ill-fauouredly, and all other Tattell: except it be in hard and day weather, for other wife they gult and marre the ground with the depe lincking of their feete treads ing in the Bratte, and breaking of the Kotes. The bad and bars raine grounds are to be helped with dung in Winter, specially in February, the Done encreasing, and the Stones, Wickes, and fuch baggage as lye scattered abroad, are to be throwne out sws ner, or later as the ground is. There are some Webdowes that with long lying, are our growne with Motte, which the old hulbands were wont to remedy with calling of certaine liedes as broad, with laying on of bung, specially Digeons bung : but nos thing is so good for this purpose, as often to cast Athes bpon it. for that destroyeth Poste out of hand. Potwithstanding these are but troublesome remedies. The best and certainest is to Plowett: for the ground after his long reft, will beare goody Corne. Wut after you have plowed it, it will fcarfe recouer his old Mate again for Paffure & Deddow in thie or foure veres. Unhen you meane to let your ground lie againe for Dedoow or Paffure,

your best is to sowe it with Dates, and to Harrow the ground even and levell, and to hurle out all the Cones and fuch things as may burt the Sythe : for Dates is a great breder of graffe. Some doe cast Hap-sæde, gathered from the Hap-lost of the Rackes, over the ground before they harrow it. Others againe, when their Dedoowes have lien long, fowe Beanes byon them. of Rape lade, of Willet, and the piere after Wiheate: and the third peere they let them lie againe for Deddow or Pasture. You mult beware, that while the ground is lofe and foft, you let not in the water, for the force of the water will walh away the earth from the rotes of the Graffe, and will not fuffer them to grow together: neither must pou (for the like banger) fuffer Cattell to come bpon it, except in the fecond piere Boates, or Shape or fuch like, after you have mowed it, and that if the feason be very daie. The third years you may put on your greater fort of Cattellas gaine, and if the ground be hilly and barraine, you may bung the highest part of it in February, as I said before, casting on it some Day fiede, for the higher part being mended, the raine or water that comes to it, will carrie bowne forme part of the richneffe to the bottome, as I faid before, when I spake of the manuting of earable ground. But if you will lay in new ground for Dedoow, and that you may have your choile, take fuch as is rich, delup, les uell, or a little hanging, or chole fuch a valley, where the water can neither lye long, noz runne away to fast : neither is the ranke Graffe alwayes a figne of good ground : for what goodier Graffe is there laith Plinie, then is in Germanie, and pet you thall there have land within alittle of the opper part. Peither is it always watry ground where the Graffe growes high, for the very Youns taines in Sycherland pelogreat and high graffe foz Cattell. The Pattures that lies by the Lakes of Dumone in Auftry and Hungarie are but Aender, nor about the Rhine, specially at his fals ling into the Sea about Holland, as likewife in Freseland and Flaunders. Cælar Vopilcus, the Fieldsof Rolcius were the pains cipall of Italy, where the Graffe would so soone growe, as it would hide a Kaffe in a day. Dou map make good Beddowe of any ground, so it may be watred. Pour Deddowes are to be purged in September and October , and to be rid of all bushes, brambles, and great foute Woods, and all things else that

that annog them, then after that it hath often beine firred, and with many times plowing made fine, the ftones cast away, and othe closs in enery place broken, you must bung it well with feely bung, the Pone encreating. Let them be kept from gulling and trampling of Cattell. The moulobils and dunging of boxfe and bullocks, must with your spade be cast abroad, which if they remaine, would either be harbarours of Auts & luch like Mermine, or elle breders of hurtfall & buprofitable webs, your Dedoowes muff be land in towards Warch, and kept from Cattell, and made very cleane : if they be not rich, they must be mended with bung, which must be laid on, the Mone encreasing, and the newer the dung be, the better it is, and the more Graffe it makes: which mult be late byon the top of the highest of the ground, that the godnes map runne to the bottome. The best hearbe for Pasture or Dedpow is the Trefoile or Clauer: the next is fweet Graffe: the worft as Plinic faith, is Kulhes, Fearne, and Hogfetaile.

Rigo. How thail I know when the Graffe is ripe, and ready

to be cut ?

Cono. The time of cutting of it, is when the Bent beginneth to fade and ware kiffe, and befoze it wither. Carobids not to mow your Graffe with the latek, but befoze the sied be ripe. It is beke cut downe befoze it wither, whereby you had have both moze, and better Hey of it. Some, where they may overflow it, do water it a day befoze they cut it, it cutteth better after a dewie evening.

Rico. Doe you cut graffe in the like fort as you doe Come? CONO. Almost in the like fort, some voe ble Mort Sithes, moining it with one hand: but we here doe vie the common great Sith, mowing with both our hands, as I faid befoze, that Dates, and Barly, and fuch other like Come was mowed, which Sithes ine ble to tharpe with Withetstones, or instruments of wood drested with fand. The Graffe being cut, must be well tedded and turmed in the Summer, and not cocked till it be bay : and if it chance to be wet with raine, it must not be turned, till the upper part be bried. There is a measure to be bled in making of it, that it be not had in tw date, nog tw græne. The one foat, if the ingce be dated by fersicth onely for litter: the other (to graine and mouth) if it be carried into the Loft, rotteth, and the vapour being over, heated, falleth on fire and burneth. And if so be the raine chance to fall prou 亚 3

bponthegrate that is new cut volune, if it be not Wirred, if takes not fo much harme: but if it be once turned, you mult fill be fire ring of it, otherwise it will rot. Therefore the bppermost part. before it be turned, must be well dried with the Sunne and the winde: when it is drice, we lay it in windrowes, and then make it up in Cockes, and after that in Downes, which must be tharpe and piked in the top, the better to defend it from the raine, which if it doe not fall, yet is it good to to boe, that they may flucatin the faid Howes, and digest whatsomer moissure is in it. And therefore god hulbands doe not lay it by in their loftes, till fuch time as it hath fineat in the Field. Graffe is commonly mowed twile a perc, in Pay or June, and againe after Haruelt: the first mowing is counted the best. As some as the Way is off after the first mowing, it would be overflowed (if you may conveniently) to the end the after finath may be mowed in Autumne, which they call in Latine Cordum. In the Dukedome of Spoleto, it is faid they molve foure times a vere, being daie ground, and diners other places theise a piere. Medica may be cut fire times a pere, if it be ordered as it ought to be. It is best mowed when it beginneth to flowe, for it must not growe to lode: being dzied it is made bp in bundels, and kept god thee peres, to the great comfort of pore Cattell : but because 3 have tolde pou of Medica before, it is but baine to rehearfe it againe.

Rigo. Pou have spoken of a very large and great knowledge of husbandzy, which out of doubt requireth in a mangreat

trauaile and diligence.

Cono. It requires indicate great diligence and tranaile, howbeit, it recompenses the paines and the charges, not without great gaines, whereof Plinie bringeth for example Caius Cralinus, who when upon a little piece of ground he reaped more fruit and graines a great deale, then his neighbours did upon their great occupiers, grew into great hatred amongst them, as though hee had bewitched their field: whereof being accused by Spurius Albinus, and fearing to be condemned, when the Duest Chould passe upon him, he brings all his instruments of husbandry into the common place, and brought in therewithall his daughter, a folly great Koile, his frontwles perfectly well made, great Spadis, mightie Coulters, and lustic Cattell: Los here (quoth

(quothhe) mine enchauntments, neither can I bring before you The dilimy great and painefull labours, watchings, and sweat, where, Caus Craston bean here was presently quit by the voyces of them all. But I finus. here you to long about my husbandry, it is god time we leave and one home.

Rigo. With a goo will, If I may obtaine one thing at your hands, which when you have made an end with, I will

trouble pou no longer.

CONO. What is that?

Rico. If a man would buy a Farme of a Pannos, in what fort thall he best doe it - for I doubt not but you have goo skill

in fuch matters.

CONO. Ischomachus in Xenophon, telleth, that his father taught him that he thould never buy a piece of ground, that had beene failfully or curroufly husbanded before, but rather fuch ground as by the aothfulnede and pouerty of the Paitter, hath ipen butilled and neglected, and pet fæme to be berp god ground: as it is better to bup a leane Hogie, fo that he be not old, and that be have the tokens of a god Porle, then a fatte Porle, and one that is curioully kept. A well ordered piece of land is held diere. and pielos no great encrease, and therefore is neyther so pleas fant, noz so profitable, as that which by good husbandry may be made better. Caro would have two thinges to be observed in buying of land: The godnette of the ground, and the wholes fomeneffe of the aire : of which two, if either be lacking, who for ever doth bupit, he judgeth him madde, and mete to be fent to Bedlam: for none that is well in his wittes, will bestow cost by on barraine ground, noz hazard himfelfe foz alittle rich ground, to be alwaies subject to pestilentiall diseases: for where a man mult deale with the Dinell, there is not onely his commoditie, but his life doubtfull, and rather his death then his gaine certaine. After thefe two principali notes, as Columella faith, Cato added of like weight these thie that follow to be regarded: the Way. the Water, and the Peighbour. The godnelle of the way is a great matter, for it both makes the Pafter haue a belight to goe about it, and it is commodious for carriage, which bringeth great gaine, and little charges. Of the commoditie of water who doube teth, without whose hie no man isable to live? Dfa mansneigh. bour, F4

bour, he would have a man have special regard. Hesiodus saith, what rand have, an evill neighbour is a great mischiese. I have knowne divers, that so, the troubicsommesse of their neighbour, have so, sand dwellings, and changed gold so, copper, because they have had salse knownes to their neighbours, and quarrellers, that suffering their cattell to runne at large in every mans ground to spoile their Come and their Usines, would also cut downe wod, and take what some they find, alwaics brabling about the bounds of their ground, that a man could never be in quiet so, them: or else have dwelt by some Caterpiller, Russian, or swall, buckler, that would leave no kind of mischiese budone. Amongst all which commonly there is not so ill a neighbour, as the new bustart, that takes byon him the name of a Gentleman, who though you ble him never so well, will at one time or other give you to buderstand from whence he comes, and make you sing with Claudian.

A lewder wretch there lives not vnder skie.

Then Clowne that climes from base estate to hie.

As the Proner in England is, let a knaue on horleback, and you thall see him thouser a knight: for an Ape will be an Ape, though you cloath him in purple. Surely D. Portius would have a man thunne the neighbourhood of such, as the petitience. I for my part am happy in this point, that I have no neighbour that I need to searce.

Rigo. Derhaps they bare not for your authoritie to boe, as

otherwise they would.

them, the dwelling is not to be test, if it have other god commodities, except it be places in the boxders of sunday Countries that be subject to great sicknesses. Some commend the dwelling that hath faire wates about it, is nicre some River or god Parket, subereby a man may carried is Herchandize with less charges. The old fellowes would never have a man place himself energy bigh way, for pilfering of such as passe by, and troublesonmesse of guests, as I said before in speaking of the placing of an house. In the letting of a Karme, these things are to be observed that I spake of before, in describing of a Bailiste of Husbandaie and his labour; that you let it to such, whose travaile and god behavious

The letting of a Farme.

behaniour you may be affired of, and that you regard more their god ordering of the land then the rent, which is least hurtful, and most gainefull. For whereas the ground is well hulbanded, you mail commonly have gaine, a never loffe, ercept by bureafonable. neffe of the weather, which the Civil Lawrer farth, Mould not be any damage of the Tenant, or the inuation of the enemie, where the Wenant cannot belpe it. Befides, the Lord muft not beale with his Tenant fo Araightly in every point, as by law be might, for his rent bayes, bargaines of wood, quitrents, or fuch, the rigour wherein is more troublesome, then beneficiall:neither ought wee to take every advantage, for law many times is right plaine wrong : neither must be be to flacke on the other five, for to much gentlenelle many times makes a manthe worfe. And therefore it is god if the Farmer be flacke in his paiments, to make him to know it : but in no wife to be a raifer or enhaunfer of rents, for that discomforts, and many times bedoeth the tenant. Moreover, you must not lightly thange the olde farmer, both bc. saule of his deferts, and that hee is better acquainted with the ground then a new. L. Volulius would alwayes fay, that hee was in belt cafe for his Lands, that had aiwayes his Tenants borne and bredde by in them, whereby the long familiaritie Thould make them more louingly to ble themselves : for fureit is an cuill ble often to change Tenants, and therefore 3 doe like well that order, where the land is let for the lives of the Menant, his wife, and his childe, paying a percly rent, to that as long as he papes his rent, and keepes the reparations, it Wall not be lawfull to deceive him : for hereby the Wenant Mail be provoked to order the ground with more diligence, to repaire the house, and to loke to it in all points as to his owne, bestowing many times as much as he hath boon it. This way of letting Land me fames is beft, where the ground is subject to the Sea or the Miner, or other dans ger, that the Wenant bee charged with the maintenance of it. And here be fare that you let it rather to one of habilitie, then to an buthriftie man, that is not able to bears it, whereby pon may lofe both your Land and your rent. In fuch place as lies neere the Lozd, hee may occupie it by his Bapliffe, or to baloucs: but where it is far off it is better to let it out for a yerely rent byon the forelaid squenants. For if you occupie it with your foruants.

fernants, they will eyther loke ill to your cattell, or your ground, or suffer things to be stolne, or steale themselves, or make you be at more charges then needeth, and be carelesse in every thing. In letting of ground commonly it is covenanted, that the Tenant stall not let nor sell without leave of the Lord, and that he shall not breake any pasture or meddow land, and what, and how much he shall some of every kinde of graine, how much hee shall have sor Pasture, how much he shall let lie, and how much he shall mend. Here have you almost as much as I am able to say in husbanding of the ground.

CONO. I thanke you, you have greatly delighted me with

the delicibing of your Patture-ground and Earable.

# The end of the first Booke.

to an entit of offen to charge Menants, and the stocked a see that the ment in the first of the Menant. I be such that the first of the Menant. I be such that the stock of the ment to the second of the such that the stock of the stock of the stock of the second of the stock of

the greens to the more ville cure, to repaire the bane, and to imine

And here he live that pea let is rather to one of heighte, their to an enthelling user, that is not sole to beare, it, whereby

ent by out the four date concreaments. They deput prouple it lineares

The hit points as to his cloud, believing many times as much



## The fecond Booke: Of Gardens, Orchards, and VVoods.

THRASYBULUS. MARIUS. IVLIA.



Cause of the aliance betwirt Bearbes, Trees, and Corne, and because their husbanday is almost one, it is reason that next the first boke, waitten of Carable ground and Millage, thould follow the Description of Dachards, Gardens, and their fruits. Virgill in waiting of Hulbanday, left this part buwgitten of: howbeit, divers others

both old a new watters have not without some diligence waitten of this part, but yet by matches (as it were) anot throughly: whole spinions topned with mine own experience, it fæmeth god to me in this boke to declare. And fince the ble of Dachards & Bardens The vie is great and ancient, that Homer writeth, how Lacrees the olde of Garman, was wont with his travaile in his Dechards, to deine from dens of his minde the forrow her toke for the absence of his sonne. And great anti-Xenophon reporteth, that king Cyrus, as great a prince as he mas, would plant with his owne hands, fet træs in his orchards, in such order, as it sæmed an earthly paradife. Q. Curtius wats teth of Abdolominus, that for his great vertue, of a pore gardner, came to be king of the Sidonians. And furely, not unworthily is this part of hulbandap estimed, feing it doth not alonely bring great pleasure, but also is greatly profitable for the maintee nance of householde, and the sparing of charges, ministring to the hulband daily fode, and lufficient luftenance without coff for when (as Columella faith) in the olde time the people lined moze temperately, and the pose at mose libertie fed of fleth & milke, and fush things as the ground & foldes pelded, but in the latter age when rpot and daintines began to come in, and the wealthier fort to effeme no fare but coffly, and farre fetched, not content with meane diet, but coueting such things as were of greatest paice.

price, the pore people as notable to beare the charges, were bas

An euill

Garden token of an ill hufwate.

nifed from the cofflier cates, and driven to content themfelnes with the balck fode. And hercof friang at the first the planting . of Dechards, and making of Gardens, where with the posetteres. ture that was, might fore his kitchin, and have his victuals ale waves at hand, the Dichard and Warden feruing for his Shams bles, with a great deale more commendable and hurtleffe biet. Herein were the olde hulbands bery carefull, and bled, alwayes to judge, that where they found the garden out of order, the inife of the house (for buto her belonged the charge therof) was no and hulwife, for they thould beforced to have their victuals from the Shambles or the Warket, not making so great account of Cole worts then, as they beenow, condemning them for the charges that were about them. As for fich, it luas rather lothed then w fed among them. Only Dechards and Bardens did chiefly pleafe them, because the fruits that thep recid, nebed no fire for the dref. fing of them, but spaced wood, being alwayes of themselnes ready dreffed, caffe of digeftien, and nothing burdensome to the ftos macke: and some of them serving also to pouder or preserve with all, as god marchandize at home, as Plinic fayth, not origing men to læke pepper as farre as Inste. Df Lucrin, Ithe Dyffer not regard, as the Boet fapth. And therefore to make them of more worthinelle, and that for their common profite, they thould not be the leffe regarded, there were divers noble men of the house of Or Lettu. Valerius, that toke their furnames of Lettule, and were not affia med to be named Lettismen. The old people had in great eltis mation the Gardens of the baughters of Atlas, and of the kings Adonis and Alcinoi, of whom Homer to much fpeaketh, as also the great vaulted Warbens, epther built by Semiramis, or by Cyrus the king of Affiria. Epicure is reported to be the first that ener deuiled garden in Athens, befoze his time it was not fiene, that the pleasures of the Countrie were had in the Citie. Pow when Thrasybulus tranailing in the affapees of his prince, chaunced to come to the house of Marius, & carried by him into a Garden that he had, which was very beautifull, being led about among the Tweet finelling flowres, and biver the pleafant Arbours, what a goody light (quoth Thrafy bulus) is heere + hoin creellently haue you garnifed this paradife of yours with all kinde of pleasures? BOU!

fins.

Pour Parlers, and your banketting houses both within and with. out, as all bedecked with pictures of beautifull foluses & Trees, • that you may not onely fixe your eyes with the beholding of the true and liusly Flower, but also delight your selfe with the couns terfait in the miot of winter, fæing in the one, the painted flower to contend in beautie with the very flower: in the other, the wone derfull worke of Pature, and in both, the palling godnes of God. Pozeover, your pleasant Arbours to walkein, whose shaddowes beepe off the heate of the funne, and if it fortune to raine, the clois Kers are hard by. But specially this little River, with most cleire water, encompassing the garden, doth wonderfully let it forth, and herewithall the græne and goody quickfet hedges, no chargeable kinde of enclosures, differeth it both from Dan & Beaft. I speake nothing of the well ordered quarters, whereas the Bearbes and Træs are leuered enery fort intheir due place, the Pot-hearbes by themselues, the flowers in another place, the Trees & Impes in another quarter, all in inst square and proportion, with Alleis and walkes among them. Among these goody fights, I pray you remember according to your promise (for so the time requireth) to thew mee some part of your great knowledge in garden mats ters, fith you have byon this condition heard me heretofoze grabs ling, or rather wearying you with the declaiming of my pore skil in the tilling of the field.

MARIVS. Pour memorie is herein a little tw quicke, but what shall I doe: Promise must be kept, and since you will need force me, you shall heare me babble as well as I can, of my know, ledge in Gardening: but not with the like pleasure that I heard

you talking of your graying and your ground.

The A. Pestruly, with as great pleasure & desire as may be.

Marivs. Come on then, let us here sit downe in this Are
bour, and we will now and then rise & walke, resting us as oft as
you will: in the meane time Iulia chall make ready our supper.
And first, even as you began with the chosing of a place (meet to
set your house upon, so must I with the choyse of a Plot meete so;
a Garden. The ordering of Gardens is diners, so; some are made
by the Pannoz houses, some in the Suburbs, some in the Citie,
where soever they be, if the place will suffer, they must be made
as neere to the house as may be; but so, as they be as far from the

Barnes as you can, for the Chaire or dust blowing into them, and

either subject to the Dounge heave, whereby it may be made rich. or elfe in some very good ground that hath some small Brooke running by it, or if it have none futh, some Well or Conduit, whereby it may be watered. An excellent plot for the purpole is, that which declineth a little, and hath certaine gutters of water running through divers parts thereof: for gardens mult alwaies be to be easily watered, if not with some running Areame, some pumpe to be made, or kettle. Will, or fuch like, as may ferue the turne of a natural Areame. Columella would have you make your of fearch- fearch for water, when the Sunne is in the latter part of Virgo, which is in September, befoze his entrance into the Winter Equinoctiall, for then map you best bnderstand the Grength or gwonelle of the fprings, when after the great burning heat of the Sommer, the ground hath a long while continued without raine. If you cannot thus have water, you must make some standing pond at the upper part of the ground, that may receive a containe fuch water as fals from above, wherefulth vee may water pour Barden in the extreame heat of Sommer: but where neither the nature of the loyle, noz conveyance by Conduit oz Pumpe, oz rune ning Areame is to be had, you have no other helpe but the raine . water of winter, which if you also have not, then mult you belue and lay your Barden that or foure fote beepe: which being fo or dered, will well be able to abide what some brought one happen. This is also to be regarded, that in gardens that are destitute of water, you so order them into severall parts, that what part you will occupie in winter, may lie towards the South, that which thall ferue you for Sommer, may lie towards the Porth. In a Barden, as in the chople of Come ground, you must loke whee ther the goodnesse of the ground be not hindered by the buskisfuls nelle of him that hath occupied it. Poumust also make choyle of your waters, of which the belt (as Plinic fapth) are the coldest, and fuch as be sweet to drinke: the work that comes from Pones, or is brought in by trenches, because they bring with them the sees of graffe and weedes : but the ground both most delight in raine water, which killeth wozines and baggage that breeds in it: but

for some hearbs, salt water is niedful, as the Raddill, Biete, Kelv, Saurell, to which al fait water they fap, is a special helper, making

Thetime ing for Water.

them both pleasant and fruitfull: to all others, sweet water is only to be bled. And because I have begun to entreat of watering, I The time must give this note, that the times of watring is not in the heat of wateof the day but carely in the morning, & at night, least the water ring of be heated with the Sunne: onely Balil you mult water at none, Gardens, the fad fomething will come the foner by, if they be sprinckled at the first with hot water. You have here heard, that the first nico. full thing for a Barden, is water. The next to that is enclosure, Enclosing that it be wel enclosed, both from burnly folks & theues, and like of Garwife from beatts : left lying in waite for your hearbs and your dens, fruits, they may both bereaue you of your paines, and your pleas fare: for if epther they be bitten with beafts, or to often handled with men, it hindgeth them both of their growth & feeding: and therefore it is of necessitie to have the Garden well enclosed. Pow for enclosures, there are sundephindes, some making earth in mould doe counterfeit Brickwals: Dthers make them of lime thones: fome others of fones layd one boon another in heapes, casting a Ditch for water round about them, which kinde Palladius forbibs to follow, because it will draw out the morfture from the Barben , except it be in a marify ground. Dther make their . fence with the feedes and fets of Thorne: some make them of mudde walles, conered with arawoz heath. Varro maketh mention of foure kindes of enclosure : the first naturall, the second wilde, the third fouldierly, the fourth, of carpenters worke. The first a naturall is the quickelet heoge, being let of young thornes, which once well growen, regardethneither firenoz other burt. The fecond is the common hedge made of dead wod, well staked and thicke plathed, or raile. The third the fouldiours fortifping, is a deve ditch with a rampier : but the vitch mutt be fo made, as it may receive all the water that comes from about, or fals into it, Suberein the vamure must be so stiepe, that it may not easily be climed. This kinde of fence is to be made, where the ground lies niere the hye way, or buts byon the River, of which fort I chall have occation to speake more hereafter. The fourth fence made by the Corpenter of by the Palon, is commonly knowen: whereof there is foure forts, either of Stones, of brickes, or Turfe, and earth; elittle fronce framed in moulde. Columella following the ancientest authors, preferreth the quickfet heage before the dead,

The making of a quick-fet hedge.

because it is lette chargeable, and also endureth the longer confi nuing a long time: which heage of yong thomes, he teacheth to make in this fort. The place that you determine to enclose muff . after the beginning of September, when the ground hath beene well foked with raine, be trenched about with two furrowes, a pard villant one from the other, the depth & breadth of curry one of them must be two fot, which you must suffer to lye empticall winter, providing in the meane time the feedes that you meane to fowe in them, which must be the berries of tharpe thornes, briers, holly, and wilde Eglantine, which the Brekes call dog baier. The berries of thefe you must gather as ripe as you map, and mingle them with the flowie or Weale of tares, which when it is sprine. kled with water must be put byon old ropes of thips, or any other roves, the ropes being thus handled and dried, must be lapd by in some borded flore. Afterward when winter is done, within forty dayes after, about the comming of the Swallow, if there be any water remaining in the Furrowes, it mult be let out, the mellowed earth, which was call out of the furrowes in the ende of Summer, muft now be east in agains, till pou haue filled them by to the mide : then must you handlomely bufolde the ropes, and lap them in length through both the furromes, and fo couer them, taking god hiro that you throw not too much earth byon them for hindering the spring, which commonly bleth to appeare with in thirtie dayes after, and when they be growne to be of some height, they mult be made to encline to the space betwirt the two furrowes: in which space you must have a little walled hedge, to teach the fpzings of other furrowes to climbe by which will be a folly flay and a comfort to them. But I have another and a more newer and readier way of making of them, which I first practiting in this better way Countrie, divers others have followed. I also do make a certains a quick-fet Ditch, t gathering in the wood, the young springs of thornes, cut ting off their tops, I fet them on the bancke of the Ditch, so that they fand halfe a foot out of the ground, plucking by all the weeds (specially the first Sommer) that grow about them and sucke as way the iuvce that comforts the fet. The rootes being this rid, 3 couer all the earth about them with Araw, whereby both the deals of the night is let into the rootes, and the pooze plant is des fended from the burning of the Sunne. The pare after, 3 make

Another of making hedge.

a little flender raile of plants, inhereunts I lay up the fprings, weaving them in such fort as I will have them to grow, which I perely make higher, according to the height that I would have the Dedge to fpzing. Gight, oz at the bitermolt nine fote, is a lufficient height, and whatloeuer fpring about, must be plathed of one fide of the other, to make the fence the fromger. Withen I have thus done, I mat it thicker and thicker every vere. filling by the places where I fee it thinne, with fuch bows as I fæ grow out of order: and thus is it woven so thicke with perce ly bindings, that not fo much as a small bird is able to passe thos row it, not any man to loke through it. When it is thicke & nough and bigge enough, the supersuous springs must every pære be cut. This hedge can never be deftroped, ercept it be plucked by by the cotes : neither feareth it the hurt of fire, but will growe the better for it. And this is my way of encloting a Warden, as the pleafantelt, most profitable, and of least charges.

THRA. There is another way of making of a quick-fet Bedge, Another which our Bedgers in the Countrey doe ble, which is something fort of the Aronger. For fetting the young Sets, as you have faid before, when they be growne to some greatnesse, they cut the Thorne mere to the ground, and being halfe cut and broken a funder, they bowe it along the Deoge, and plath it. From thefe cuts fpring by new plants, which still as they growe to any highnesse they cut them, and plath them againe ; fo boing continually, till the Dedge be come to his full height. This way the Dedge is made fo frong. that neither Hogge noz other beaft, is able to breake through it : but the other is a great deale moze pleafant to the eye. But if 3 have not Sets enough to ferue, may I make an Impe Garden of

their fæse ?

MARIVS. Dea bery well. Pake your Thorne Garden or More plot in this fort. Take your 15 erries or fromes, and mingle them with earth, lay them by for the first yeare in some place mete for them, the next piere lowe them as thicke as you can, and pie thall within a little time have a whole Taw of thomes.

THRA. Pou have noto spoken of Water and enclosure, five principall points in a Garden: It now remaineth to speake of the

ground mete for a Barden, and the order of drellingit.

MARIVS. Dithe funday forts of ground, and of the differning

baue sufficiently spoken, I do not think it needfull for me to repeat the Againe, it is enough to me to adde onely this, that the ground ought not to be twich, nor tw leane, but fat and mellow, which bringeth forth a small kinde of Grasse like haires: such ground requires least labour, the stiffe and the rich ground asketh greater paines about it, but doth recompence it agains with his fruitful nesse. The stiffe, leane, and cold ground, is not to be medled with, as Columella writeth in appointing god ground for Gardens.

The ground that gives the ripe and mellowed mould,
And doth in working crumble like the fands:
That of his owne good nature yeeldeth manifold,
Where Walwoort with his purple Berrie stands.
For neither doth the ground that still is dry,
Content my minde, nor yet the watrie soyle:
Whereas the Frogge continually doth Gry,
While in the stinking Lakes he still doth moile.
I like the land that of it selfe doth yeeld,
The mighty Elmethat branches broad doth beare,
And round about with Trees bedecks the field
With Trees, that wilde beares Apple, Plumme, and Peare,
But will no Bearesoot breed, nor stinking Gumme,
Nor Yewe, nor Plants, whence deadly poysons come.

What to be confidered in the choise of garden ground. Ayre. Windes.

The ordering of

And thus much of the Carden ground, which as I faid, is was tred, or may be watred, and is enclosed either with a wall, a hedge, or some other lafe enclosure. After this, it is nædfull it lie weil to the Sunne, and warme: for in ground that is very colde, the warmth of the Sunnc will not much anaile it. And contrarp, if it be a hot burning sand, the benefit of the Beaucus can little helpe it. Poumust pet loke, that it lie not subject to ill windes, that are day and frozehing, and bring frosts and mists. But now to the our dering of your Garden. Fird, you must be fure that the ground which you meane to foin in the Spring, be well digged in the fall of the leafe, about the Kalends of October: and that which you garden in the fall of the leafe, must be digged in Day, that either by the colde of Winter, or the heate of Summer, both the clod may be mellowed, and the rotes of the wedes defroyed, noz much before this time must you dung it. And when the time of sowing. fowing is at hand a fine dapes before, the weedes must be got out, and the bung layed on, and fo often and biligently must it be bigged,

as the ground may be throughly medled with the mould.

Therefore the parts of the Bardens mult be so ordered, as that which you meane to lowe in the end of Summer, may be digged in the Spring: and the part that you will sowe in the Spring, must be digged in the end of Summer : fo shall both pour fallowes be seasoned by the benefit of the colde and the Sunne. The Beds. beds are to be made narrow and long, as rif. fote in length, and are in breadth, that they may be the easier wieded: they must lie in wet and watrie ground two for high, in day ground a fote is fufficient. If your beds lye fo day, as they will fuffer no water to tarry byon them, you must make the spaces betwirt higher, that the water may be forced to lie and auoide when you will. Df Of digthe kindes & forts of dunging being fufficiently entreated of by you, ging and 3 will say nothing : onely, adding this that the dung of Aucs is dunging of Ganthe bett, because it bredeth fewelt webes : the nert is Cattels dens. Dung, and Sheepes dung, if it have lien a pere. The ground as 3 faid which we meane to foline in the Spring, we must after the end of Summer let lye fallow, to be leasoned with the frost and the cold : foz as the heate of Summer, fo doth the cold of the Minter bake and feafon the ground. When winter is done, then must we begin to bung it: and about the fourteenth or fifteenth of January, we must dig it againe, deviding it in quarters and beds. First mult the wedes be plucked by, and turffes of barraine ground must be land in the Alleyes, which being well beaten with Bes tics, and so trod bpon, that the grasse be morne away, so that it fcarce appeare, it will after fpzing bp as fine as little hapze, and pield a pleasant light to the eye, which will be very beautifull. Tahen pou haue feuered your flowers by themselues, your This ficke hearbs by themselucs, and your pot-hearbs and Sallets in another place: the beds and the borders muft be fo caft, as the Meders hands may reach to the miost of them, so thall they not neede in their labour to tread opon the beddes, not to hurt the hearbs. And this I thinke lufficient for the preparing of pour ground before the folding. Pow will 3. speake of sowing, and Of Soreauhat thall be solved in enery season. To speake of all sorts of ing. Bearbs and Flowers, were an endle Celabour, onely of those that

B 2

ara

fons to lovvein,

aremost nædfull, I meane to entreat. And first of hearbs, some are for the Pot, some for the light, some for pleasure and sivet savour, and some for Philicke. And againe, some are for Winter, some for Three fea. Summer, and fome betwirt both. The first time of folding after Whiter, is the moneth of Parch, April, and Pay, wherein we ble to fold Collewits, Ravilly, Kape, and after Betes, Lettufe, Sozel, Bultardiede, Coziander, Dill, and Barden Crelles. The fecond featon for folwing, is in the beginning of Daober, wherein they fet Beetes, and fow Smallage in Nigella and Arreche. The third feafon, which they call the Summer feafon, in some place the Gardners beginne in January, wherein they fet Cucumbers, Gourds, Spinnach, Bafill, Purstaine, and Sauerie. Pany things may be sowed betwirt these seasons, and pet doe very well. All Warden hearbs are commonly fowen before the tenth of June, fuch things as you would not have feed, you may fow after this time.

Some things are folved onely two times a pere, in the Spring, and in the end of Summer. Others againe at funday times, as Lettuse, Colivorts, Bocket, Radilly, Creffes, Coriander, Cheruill, and Dill. Thefe are fowed about Barch, oz about Beptems ber, and Columella faith, toe come either of the febe, or of the flip: some of the rate, some of the stalke, some of the lease, some of the Clot, some of the Dead, some of both: others of the Barke, others of the Dith, some both of the sæde and the slippe, as Rew, wilde Marierum, and Baull, this they cut off, when it comes to be a handfull high: Others growe both of the fade and the rote, as Onions, Garlicke, and such like. And although all things will grow of their fixdes, get this they fay, Rew will not doe: for it very seldome springs, therefore they rather set the sips. These that are fet of the rote, doe commonly last longer, and branch bets ter, putting forth young kippes from his lides, as the Onion and With. The stalke being cut, they all doe spring againe for the most part, except such as hatte speciali stalkes, called by Theophrastus άπολαυλα, that is, such as when the Kalke is cut grow no moze: Gafa interprets it Secaulia. The Kape and the Kadiff, their leaves being pulled away and covered with earth, doe grow and continue till Summer. The fruits of some is in the earth, some without, Of feedes, and some both within and without, some lie and grow, as the Cucumber and the Gourd, and foinetimes hang, though of greater

weight

weight by much then the fruits of Tres : some requires Capes and helpes to clime by as Hops, Lupines, and Deale : some face groweth better, the newer they ve, as Lettes, Nigeba Romana, Cucumbers, and Sources, and therefore some vie to thepetheir Cucumbers, in milke or water, to cause them to grow the speeds lier. On the other fide, of olde fæde better grolveth the Bete, Barden Treffes, Beniriail, great Parierum, and Coziander. In the Beete this is onely observed, that the sede commeth not all bp in one pere, but part the fecond yere, and fome the third: and therefore of a great deale of feed, springeth but a little. Touching fed, this is to be well feneto that they be not to old and day, that they be not mingled, or taken one for another : old fed in some is of fuch force, as it changeth the nature : for of old Colwort fede Swringeth the Kape, and likewife of Kape fiede Colworts. Alfo that pægather not pour fædesto fone, noz to late. The berp time, as The phrastus writeth, is at the spring, the fall of the leafe, and the rifing of the Dog: but not in all places and kindes alike. Df Seeds, the somelf that spring are these Bafill. Arach, Pauen, What Seed Rocket, that commeth by the third day after the folding, Lettule fpring the fourth day, the Cucumber and the Gourd, the fift day, Dur, foo ic, and Ain, longer ere it come, Dill, the fourth day, Crelles & Bultaro, which flowly. fiede the fift day, 15 extes in fummer the firt day, in winter the tenth or the fivelith, Likes the rir. day, fometime the rr. Coris ander later: which if it be new, (ercept it be thauft together) it aroweth not at all. Deniciall and great Parierum, come bp all ter err. dapes. Darly is of all other the longel before it come bp. appearing the fortieth day after, or many times the fiftieth. Pou The wermust also consider, that the weather in solving is of great force : ther for for the feafon being faire & warme, they some by the foner. Some Sowing. forts fied one viere, meuer after come bp: fome againe continue, as Warfin, Smalledge, Lekes, Rigella, that being once fowed, come by enery yere. Such as continue but a pere, prefently byon their fæding die: other fpzingagaineafter the loffe of their ftalke, as Liekes, Pigella, Dnions, and Barlicke: and commonly all fuch as put out from the live: and all thefe require dunging & watring. In folding belide fome think, you must have regard to the Done, The and to fow and fet in the encrease, and not in the wane. Some as Moone, gaine thinks it best from that the is foure dayes old, till the bee sightæns:

eightæne: some after the third, others from the tenth, till the twentieth: and best (as they all suppose) the Done being as loft, and not let.

THRA. But now I pray you tell be something of the ordes e

ring of the best Garden hearbs you have.

MARIVS. Some denide their Gardening time by the Pos

neths, as they doe their other husbanday.

THRA. I care not whether by Poneths of other waves, but I would fayne know the ordering of your Garden here, for I know in hot Countries they Barden all the Winter long, but 3 am aitogether for our Country, whose order we must here follow.

The time ning.

MARIVS. Buthefe parts they commonly begin their Gare for Garde- dening (if the weather be faire and feafonable) in the end of fea bruarie. At this time therefore the Barden being dunged, digged, raked, and cleanled, they ble to plant Sperage, and Rewe.

Of pothearbs.

THE A. 3 pray you begin with Asparagus, or Sperage, and the other Pot-heards, enery one in his order: and afterward with

Flowers and Phylicke hearbs.

MARIVS. Asparagus was swent to grow wilde, but now is Asparagus. brought into the Barden,it is called in Bricke, àmaggiog, in Italian, Spanish and French, it is almost all one; the one call it Asparago, the other Asperge, the Dutchmen call it Sperages and Spiricus, becaufett comes by of it felfe: for the Barden Speragethey were not acquainted with. It is planted in two forts, either of the feede, or the rote: they take of the feede as much as you may take by with their fingers, and bestowing it in little holes, energ two or three feedes halfe a forte asimber: they fet them in rich ground, in February, and couer the ground with dung. The wedes that grow, must be well plucked away, after the fourtieth day they come by as it were to one rote, and tangled toges ther: the rates have sundry Arong threeds, which they call the Sponge. In ground that is baie, the fedes are to be fet depe. and well tempered with bung. In wet grounds, on the other fide, they are to be fet shallow in the top of borders, left the mois Aure deltroy them. The first yeare you must breake off the Stalks. that grow: for if you plucke them by by the rotes, the whole lets will follow, which are to be preferned for two yere with dunging and wieding. All the yeares after, you must not gather them in

the Kalke, but pull them from the rot, that the rots being opened, map the better fpzing which ercept you boe, you burt the Spzing. Din that pou meane to keepe for feed, you must in no wife meddle withall, aiter, burne by the bulhes, and in Winter bung well the rotes with dung and albes, they are planted also of the rotes, which after two yeares you must remone into a warme and well bunged ground. The trenches where you meane to fet them, must Cand a fot a funder, and a faft man in depth, wherein you must fo lap your Sponges (as being couered) they may best grow : but in the Spring before they come by, you must lose the earth with a little forke, to cause them the better to spring, and to make the rots the greater. Cato would have you to rake them, but fo, as you burt not the rots, and after to pull the plant from the rot : Fozif pou other wife breake it, the rot will bic, & come to nothing. Wit poumay fo long crop it, till you fie it begin to grow to fiebe : in which piere for the Winter time, you must according to Caroes minde couer it with Araw, or fuch like leaft the cold doe kill them, and in the Spring open it againe, and dung it well. Somethinke, that the first pere it is needle fe to dee any thing to the plant, but onelp to wede it. From the rots, which they call the Sponges, there fpringeth first certaine bubs with crumpled knops, very god and pleasant for Sallets : which if you fuffer to grow, it araight. way butheth forth with branches like Fennel, and at length grow to be prickly: after it hath flowerd, it bearetha Berry, first greene, and when it is ripe red. If you would have Sailets of Alparague all the pere through: when you have gathered the Berries, open the rotes that rume aloft by the ground with digging, and you Mal have the roots fend forth new buds out of hand. It is thought. that if you breake to powder the home of a Kam, and lowe it. watring it well, it will come to be good Sperage. In the Spring time they make a very good Sallet, being fodde in water, or fatte Broath, till they be tender : for if you fixth them too much, they will waste away. When they be soo, they dresse them with Minegar, Dpie, Pepper and Sait, and fo eatethem : 02 as my friend William Prat, bery fkilfull in thefematters, telleth me, thep cut them in small pieces like Dice, and after they have parbots led them, butter them with fwet Butter, a little Uinegar and Deuper.

Be

THRA

THRA. Pou have very well thewed me the ordering of Alpa-

ragus: I pray you goe forward to Kelve.

Revv.

Marivs. Kew, which the Grekes call and giver, the Lastines Rusam, the Italians Rusache, the Spaniards Ruda, the Frenchmen Rude de gardin, is planted at the end of Kebruary, or in Parch, prospering best in drie and Sunnie grounds, it abhore teth both water and dung, which all other heards most delight in, it most delighteth in ashes: and where all other plants will spring of the seede, this they say will never doc it. The branches being sipped off, and set in the spring, will very well grow, but if you remove the old rot, it dieth: it delighteth in the shaddow of the Kigge træ, and being stolne (as they say) it prospereth the better: it is sowed with cursing, as Cummin, and divers other, and cannot abide the presence of an vacleane woman.

THRA. I fie good Lettule here, I pray you how dee you or

Der it :

MARIVS. Lettule is called in Dutch Lattich, in French Laictuc, in Track Laictuc, in Spanish Lechugas, subsered besides the wide, there are three kindes, one crumpled, subsich Columella calleth Cæcilia, and Spanish Lettule, of the Countries subsere it most groweth, and is greatest esteemed, in Dutch called Krauser Lattich, in French Crespue, the other Tabbedge Lettuse, in Dutch Knopf Lettice, in French Laictuc restue, of Plinic called Laconica, and Sessilis, brecause it groweth round like an head, or an Apple. The third sort is called Rounda, because it groweth in compasse upon the ground?

THE A. But how come you to have so goo Lettuse, and how

doe you order them?

Lettufe.

Marins. At the end of February, or in the beginning of Parch, we vie to sowit, that it may be removed about Aprill or Pay. In hot Countries as Palladius telleth, they sow it in Januarie, or in December, with intent to remove it in February: but you may sow it at any time of the piece, so the ground be god, well dunged, and watred. When you remove them, the rotes must be pared and rubbed over with dung, and such as be already planted, their rotes must be pared and bunged; they love a god ground, moist and well dunged, they spread the better (if you set by them the Kape) or when they begin to stalke, the stalke being tenderly

clousus.

clouen, you lay byon it a clod or a Tileshard: they will be white, if you fprinckle them often with fand, or tie fand within the leaues, and both tender and white you shall have them. If two daies bes fore they be gathered, their tops be tyed by, they wil be round and Cabbedged. If the rote being removed when it is growne a hand broad in height, be pared and finered with fresh Cow dung, and earth cast about it, be well watred, and when it groweth high, the top be cut, a potshard lato upon it, the sweeter also they will be: the moze you restraine the Kalke from Spoting op, which must as I said, be kept downe with some stone or waight, that they may spread the better. If the Lettuse chaunce by reason of the badnette of the loyle, the feede, or the fealon, to ware hard, the removing of it will bring it agains to his tendernesse: it will have funday and diverstalts, if taking a Treddle of Shiepe, oz Goates dung, and hollowing it cunningly with an Awle or a Bookin, you thauft into it the lede of Lettule, Creffes, Balill, Rocket, Smallage, Percely, and Raddilly, and after wapping it in dung, you put it into very god ground & water it weil. The Percely, 02 Smallage goeth to rote, the others grow in height, keping Will the talk of enery one. Constantine affirmeth Lettule to be a moutt and cold hearbe, a quencher of thirst, and causer of flepe: and that being boyled, it nourisheth most, and abateth Letcherie, for which the Pythagorians call it Eunuchion. Galen himselfe the Prince of Physitions both greatly commend it, who in his youth did alwaics vie to eate it raw, and after in his elder pieres boyled, whereby he kept his body in god temperature. Endiue, in Latine, Intubum, oz Intubus, not bulike to Lettule, Endiue. fome call it Barben Succoste, the Butchmen, and common fost, Endiulam, the Italians and the French, Cicoriam, the Spanis ards, Endibia : it is foune as other Barden hearbs in Barch, it loueth mortture and god earth, but you must make your beds when you fow it the flatter, left the earth falling away, the rotes be bared: when it hath put fouth leanes, you must remove it into well dunged ground: that which is sowne before the Kas lends of July, doth come to fiede: but that which is sowne after, feedeth not. Don must sow that which you would have to serve pou in winter, in Dctober, in warme fonie places foz Sallets in winter; they ble at this day when his leaves be out, to fold them up.

bp together, and tie them round in the top with some small thing, covering them with some little earthen vecell, the rotes will remaining to nourily them with all: thus doing, they will grow to be white and tender, and to wole a great part of their bitternesse. It is said, that they will be white, if they be sprinkled a few daies abroad, and lying woon sand, be washed with the raine: And thus is Endue with his encrease preserved all Eminter. Some there be, that contenting themselnes with less charges and labour, doe only cover them with earth, others agains with straw: this order of wintering of it, is now in every place growne to be common.

Colworts.

THRA. I see also in this pleasant Garden Colwoorts, that

we Countrey folkes be fo well acquainted with.

MARIVS. It is meete my Garden hould not want that. which as you know Cato preferreth before all other hearbes, in bescribing the wonderfull properties and bles thereof: and this place I onely appoint for fuch common Pothearbes, as Colwoorts Betes, Endine, Dnions, Rapes, Pauenes, Liekes, Car. rets, Raddiff, Barlicke, and Parineps: the worthier fort I place by themselues, and as the nature of every one requireth. Tole worts is commonly called in Latine Braffica, or Caulis, in Ozeke μο αμβά, in French Choux, in Italian Caule, in Spanith Verza, in Dutch Koil. The olde maiters made divers foats of it, as at this day there be. Dne fort with great and broad leaves, a big Calke. and very fruitfull. This fort is commonly knowne, which being the pleasanter in Winter, when it is bitten with the frosts, is foo with Baken, and bled in Porredge. The tender part of the top being a little bopled, is ferued for Sallets, decked with ople and falt. The fecond fort with the crumpled leafe, of the refemblance that it hath to Smallage, is called elinocis of Apiaria, of the come mon people crumpled Coll, oz winckled Coll. The third fort which is properly called Crambe, hath a smaller stalke and leafe, smoth, tender, and not very full of supce. The fourth fort is the great Cabbedge, with broad leaves and a great head, called in Dutch Rappes, in French Cheuz Cabuz, of the olde writers Tritiana Braffica, and this kinde is onely most fet by. In Germanie there is one kinde of them that they call Lumbardy Colwort, or Sauor Colwort, flucter then the other, and not able to endure the Winter: and another with very broad leaves crumpled, and

sucn.

full of winckles, but a great deale blacker, which the Italians call Nigrecaules, and the Latines Nigra Braffica, of the number of those that they call commonly red Coll, of the olde writers Maruocina Brassica. There are bestoes other forts, taking their names of the Countrey where they grow, as Aricina and Cumana. The best time for fetting and fowing of Colworts, is after the Bocs of Aprill. In cold and raynie Countries, the offner it is dunged and raked, the better a great deale will the Colworts be: come ble to fowe them about the Balends of Darch, but the chiefett of it go. eth out in leafe, and when it is once cut, maketh no good stalke for the Winterafter: yet may you twife remoue your greatest Coll, and if you fo doe, you shall have both moze feed, and greater velo: for it to aboundeth with feede, as it is folded with no leffe aduant tage then Kape fiede. For the making of ople, Colworts may be fowen all the piere long, but chiefly in Parch after it is fowed it appeareth within ten bayes, except your fiedes be old and day, for old fiede will grow to Kapes, as old Kape fiede will to Colworts. Some lap it profpereth best in falt ground, and therefore they ble to cast upon the ground Saltpater of ashes, which also destroyeth the Caterpiller : it is removed in June, chiedy when it hath put forth fire leaves, and that when the weather is rainie, fo that you couer the rote befoze with a little freshoung, and wan it in Seas weede, and fo fet it. Doze offigence is to be ble about the Cab. bedge : it must be sowen in Parch in the full of the Home, that it may remaine in the ground two Dones, and in Day you must take them by, and let them againe two fote alunder. The ground must be well digged where you fet them, and as fast as they grow, the earth must be raised about them: so that there appeare no moze than the very tops of them: for to cause them to grow faire and great : pou muft as oft as you remove them, banke them by with earth about them, that nothing but the leaves appeare. And thus you must often doe to all the kindes of them, the hoare frosts make them have the greater sweinesse. The Uineparos (they sap) where Collvorts grow, doe pield the worfer Times, and the Coll corrupteth the Wine.

MARIVS. Pou sæ hæreby Spinage, so tearmed (as you spinage).
map know) of the prickly sædes, called in Latine Spinacia, and

even fo in Italian, Spanish, French, and Dutch : it is fowne as

those before, in Darth, Aprill, and so till Beptember: if it map be ivell watred, it commeth bp in featien dayes after the folding, pour Hall not neede to remoueit. The fiede must presently after the fowing be concred, and afterward well weded: it refuseth no kinde of ground, but prospereth in enery place: you must often cut it, for it continually groweth, it is to be boiled without any water, where in the boyling it both pield great ftoze of jupce, and contene ting itselfe with his owne liquour, it requireth none other. Afters ward, being beaten and Airred with the Ladle, till the claiming nes be gone : it is made by in little balles, the impre Grained out, and boyled byon a Chafpndiff with Dyle or Butter, some adde thereunto Tergius, or the inpre of fowre Orapes, to make the tafte moze tarte. I thew you in ozber as you fee, all my Bitchin hearbs: now followeth Sorrell, called in Latine, Acetofa, in Itas lian likewife, in Spanily, Romaza, in French, Oxella, in Dutch, Surick, of the fowgenes thereof. There are funday foats of it: we haue at this day two kinds, the garden Sozrell & the wilde, which are pleasant both in broth & Ballets, and of this hearbe, the wilde forts are both fowerin tatte, and smaller in leafe: it is sowed as all other pot-heards are, and it groweth of it felfe in Dedoowes and Bardens. Cumminand Coriander require wel ozdzed ground: they are sowed in the spring, and must be well wieded. Cummin Coriander is called in Latine, Cuminum, and almost like in all other Lane guages: it is fowed belt (as they thinke ) with curling and erecras tion, that it may prosper the better. Coriander is called in Latine Coriandrum, and is almost by the same name in al other tongues: ft doth best prosper when it is somed of seede that is oldest. Smal-Smalledge ledge and Parfly, called in Latine, Apium Petrofelinum, and Apium er Parsley. hortense, in Italian, Apro domestico, and Petrosello, in Spanish, Peterfillie, oz Peterlin: it is sowed at the Acquinoctiall, in the spring time, t he séed beaten a little, and made bp in round pellets: we call it Acquinoctiall when the night and the dapes are of co quall length oner all the world: that is, when the Sunne, the Captaine and Authour of the other lights, the very foule of the world, doth enter into the figures of Aries and Libra. It is thought to prosper the better the older the siede is, a to spring the somer: it commeth by the fiftieth day, or at the forest the fortieth day

Sorrell.

Cummin and

after it is sowne: when it is once sowne, it abideth a long time, it reiopceth in water of wet. Fenell, in Italian Fenochio, in Fenell. Spanish Hinozo, in French Fenoil, in Dutch Fenchel, is sowed in the beginning of the Spring, in hot funny places, Kony ground, or any ground: being once folune, it fpringeth enery pere. Annife, Annife, in Latine Anilum, to knowne in most tongues, as Cummin and Coriander: requireth a ground well ordred and dreffed. Dyll, in Dyll. Latine Anethum, in French and Italian almost fo, in Spanish Eneldo, in Dutch Dyll, endureth and abideth all kinde of weas thers, but delights most in warme ground: if it be not well was tred, it must be sowed thinner. Some neur couer the siedes when they low them, supposing that no Bird will meddle with it: it commeth by also of it selfe as Fennell both. Cheruill, in Cheruile. Latine Cerofolium, in Dutch Kerbell, in Italian Gingidia, in French Cerfucil, defireth a god ground, morft, and well dunged: it is fowed with the relt in colo places. In this same Moneth they also sow Beetes, though you may sow them when you will at as Beetes. my other time of the piere as Spinage, it is a common Countrey Bearbe : they call it in Italian Beirola, in Spanish Acelga, in Dutch Becer, og Mangelt. Po Barden hearbe hath greater leaues, so that with one ozdzing, it groweth like a young trie. It is called Bera, because whenit fædeth,it is (as Columella affirmeth) to the likenelle of the Greke letter B. There be two forts of them, the white and the blacke, the ordging of them is after one fort : it is lowed as Collowits, Soirell, and Raddilly are, in Parch, Apilli, or May. Some thinks the best time for sowing it is while the Domegranate both flowie: it may be solved neverthelesse as Lettule, Cols, and divers others, at any time of the Summer. The fiede, the older it is, the better it is to be fowne, as are the feeves of Smallage, Partley, Garden Creffes, Sauerie, wilde Marierum, and Coziander, though in all other the newelt be belt. It commeth by in Summer the firt day, in winter the tenth after the fowing: it loueth a moyle, a rich, and a mellow ground: you map remove it when it hath put forth fine leaves, if your ground like well to be watred: if it be daie ground, it must be fet in the end of the Summer, as I have faid of Collowits, though it make no great matter at what other time poudoe it. Wilhen youres mone it, you must rubbe over the rote with new dung. This is proper

Garden Creffes.

Garden poppy.

Muftardfrede.

proper to the Bete, that his fede come not all bp together, but fome the pere after, fome the third pere: and therefore of a great beale of leede, there is at the first but a little thew, it groweth the broader and the whiter, if when it is something growne, you lay bpon it Wile ftones, og fuch like, to canfe it to fpread, as 3 fpake before of Lettule. Barden Creffes, in Italian Nalturtio, & Agretto. in Spanish Mestuerzo, in French Creiles de gardin, in Dutch Kerls, are folned both in the Spring, and at the Fall of the leafe, it commeth by the first day after it is sowne, and dainketh away the moviture from fuch hearbs as grow nere him: mingled with other hearbs, he careth not what weather come, and therefore prospereth both as well in Winter as in Summer: if it be sowne with Lettule, it commeth by ercedingly, it delighteth in moysture, which if it want, it will doe well enough: in watry places it groweth of his owne accord : as about Padelbor, a towne in Westphalia, it groweth in great abundance in the Kiver, and therefore is called of some Water Cresses: it was called in the old time Sisimbrium. The branches when they ware old, are nete ted together with white hapzy rings. Barden Poppy, called in Latine Paupauer fatiuum, is thought best to grow where olde Stalks have beene burnt : it is sowed in warme places, with other Dot hearbs. Multard-feede, in Latine Sinapi, in Dutch Seneff, in Italian Senape, in Spanish Mostaza, in French Seneue, there are two kindes, white and blacke: it is best to be solved in the end of Summer, and againe in Barch. Where it is once folone, it is hard to ridde the ground of it againe, because the leede both Will grow as it falleth. It loueth to grow byon dung-hils, and cast bancks.

THRA. I fie pouhaue very fayze Raddishes here.

Raddish.

MARIVS. Pothing fo faire as I have had them, for where as they delight in the Sunne, in warme ground, mp Gardners have here let them in the Madolv. The order of them is to be let in very god ground, and lying bpon the Sunne: some say, it doth not greatly care for dung, so it may have chaffe Arabed byon it: when it is come to some growth, they must be covered with earth, for if it flourish once aboue the ground, the rotes will never be god, but hard and full of pith. It is called Raddilly, because it ers exoeth all other rotes in greatnesse. Plinic writeth, that he

falso

falu at Erford in Dermanie, Raddilly as bigge as the boty of an Infant. It is folved twife in the pere, in February or Barch. the Some being in the wane lest it grow to much in leaves, foure Angers diffant one from the other : and againe in August, which is the best season for them. Those that you fet after the tenth of June, will neuer feede, the like is to be obserued in all other feeds : it commeth by commonly the third day after it is fowen: in hot and Southerly Countries, the weather being faire, it groweth fone to Stalke: and quickely feedes. The leaves as they grow, must Will be trampled downe and troden byon, whereby the rote thall grow the greater: otherwife it flowsisheth with leaves and giveth encrease to the leafe, and not to the rote: the less and the Commother the leafe is the milder and the flucter is the rote: colde as some say, both further the godnesse of them, they say they will be berppiralant, if the feede be ffeeped in Desoth, og in the inpee of Katsins: they ware fivet with colde as the Kape doth and their bitternelle is taken away with brine, and therefore some would have Kadilhes watred anourithed with falt waters: being fooden they come to be very fivet, and ferue the turne of Kapes : als uen falling, they prouoke bomite, they are hurtfull to the beines and to the texth. Raddilly caten at first, is a god preservative as mainft poplon: eaten before meate, it breaketh winde, and prouds keth brine: & after meate it loseth the belly, it is called in Latine Raphanus, in Italian Raphano, in Spanish Rauano, in French Raue, in Dutch Retich.

THRA. There is another kinde of them, that the Dutch men call Merretrich, I take it to be that which the Komanes ealed led Armaracia, called commonly in Italy Ramaracia, the first lets

ter misplaced.

Marivs. Poulag well, but this is moze full of braunches, greater in leaves, thinne in body: the leaves are not buike to the former Kadish, but that they are a little sharper and longer, and the rote senerer, and therefore there are some that denie it to be Armaracia: but here let the Phisitions contend. The ophrasus maketh mention of sundry sorts of Kadish: This kind of Kadish bath a sundrefull byting taste, a great deale moze then Austaria seed, and setcheth teares from the eyes of them that eate it: it is set.

and planted in this fort. The rote is cut in a great number of peces, whereof enery piece prospereth: for if you plucke by this time of Kaddish by the rotes you mapeut off a god quantitie of the rate, and deviding them into fmall pieces, fetting the olde rote againe by himselfe, and they will all grow and prosper very

THRA. Dea: have you gotten the Rape ? Witherto thought hee had onely belonged buto bs, for we ble to fow them after the Sunne hath beene at the highest, and immediately after our other Corne, for the fuffenance both of man and beaft.

Rapes.

MARIVS. Don doe well, and we fow it now in May, and in water ground foner, and in fome places in July. There are diners forts of them fome of them round, fome grow all in length. and are most pleasant in taste, as at Binga, and in the Country of Bauar. Some againe of the quantitie of a mans head, and of a hundred pound weight: but the smallest fort is the sweetest. There is another kind of Rape that they ble to some, which carrieth his fiede in little Cods, & is chiefly planted in Germanie for tomake ople of the which you, the other day, spake of it is called in Grieke The little Dutch Ruben. There is also another milde kinde called Rapun-

Rape.

Nauens.

yolskes, in French Rave, in Italian Rapo, in Spanith Nabolin culus, that groweth halfe a gard high, full of feed, and tender tops. ved. This they gather in the Spring time, before the falke be fyrong by, f pulling it by by the rotes, do ble it in Sallets, fund poling it to be a wilde kinde of Rape. The Panens also called in Greeke yoldidus, in Latine Napus, in French Nauer, in Italian Napo, in Spanith Nabicas, in Dutch Stockruben, map be counted in the number of Rapes, for Rapes in some ground change into Pauens, fin some ground, Pauens into Rapes. These also loue to grow in a well watred, mellow, and a rich ground: though fuch as grow in landie and barren ground, proue often the livetest in eating. They bis to some them in Parch, and in some places before, as also in August. Parlueppe in Bræke sapshivs in Las tin Pastinaca, in other tongues almost as in Latine, is very pleas fant to be eaten, and requireth a fat and rich ground, and deepe digged, whereby the rote may have rome enough to grow in: it is folied and let in the fpring, and in the end of Sommer.

Parineps.

Red and yealovy Carreis.

THRA. Pou have here also in this Garden red Tarrets.

MARIVSO

MARIVS. I have fo. Pellow Carrets is called in Latine Siler in French Cheruille, in Italian Silero, in Spanish Chirialas, in Dutch Querlin, I thinke you know it. Plinic writeth. that Tiberius was fo in love with this rote, that he caused Carrets to be yerely brought him out of Bermanie, from the Caffell of Gelduba Standing upon the Ahine. It delighteth in colde plas ces, and is lowed before the Kalends of Warch, and of fome in September : but the third and the best kinde of folding as some thinke, is in August. There is also wilde Carrets, a kinde of Parlnep, in Latine Daucus, in Italian Dauco, in French Caroce fauage, in Dutch Woortzel, there are that suppose it to be the yellow rote, that is fo common in Germanie, they are to be fowed in Warch. It is generall to Kapes, Ravilhes, Parineps, Carrets, Dnions, and Liekes, that they be well troden boon, or kept cut, to the end the rotes may grow the greater. Of Louis Leckes. there are two forts, the one called Capitatum, and the other Se-Chiaum, which they ble alwaies to cut close by the ground. The headed, og fet Læke, in Latine Capitatum, in Italian Porro capitaco, in Spanish Puerro con Cabeza, in Dutch Lauch, in French Porreau, the other Leeke in Latine Sectile, in Dutch Schnitlauch, belive the often raking and dunging, must be watered as oft as pou cut it downe. The liedes in hotte Countries, is folved in Januarie oz Febzuarie, and in colder places, in Barch : to caufe it to growe the fairer and the better. They ble to unit by a god deale of fiede together in thinne Linnen cloathes, and fo to lay them in the ground : but to make them greater headed, when it hath well taken rote, they ble to pluckett by by the blades, and raise it so, that as it were hanging and borne by by the earth, it is forced to fill the emptie place that lies under it: the blades and the rotes cut off, they ble to let the heads, buderlaying them with a Wileihard, that when as they are not able to runne downe in length, they fould be driven to grow in bigneffe and breaoth. The Lieke delighteth in good ground, and hateth watry ground: fowed in the Spring, it must be remoued or fet againe after Wars ueft, that they may be the greater, the earth must be continually lofed about it, and they must be pulted and rayled by, as I faid before: if when your emoue them, you make in the heads of eues rie one a little hole with a pace of Riede, or any thing ercept Aron.

Fron, and thauft therein a Cucumber fede, they will grow to a wonderfull greatnelle: fome ble in Bead of Cucumber febe, to put in Rape lede. To have very large and great Liches, you mult hollow a Treatle of Goates bung, and fill it full of Like fiede, for the little sprout at the first restrained, will runne altoger ther mone, and focome forth of the ground: and this as Hieronimus Cardanus waiteth, hath beene often tried to be true. They thall not fanour of Lækes oz Dnions, that have eaten Cummin after. It commeth by the tenth day after the folding, and lafteth two yeare: the first yeare it contenteth it felfe onely with bearing of leaves, the nert pere it riseth in a long Stalke hollow within, the top garnished with round knops of flowers. The Onion : in Latine Cepa, oz Cepe, in Italian Cipella, in Spanilly Cebolla, in French Oignon, the nert neighbour to the Leeke : is also of two kindes, the one kinde called Capitatum, that groweth to head, the other Fissile, that without any head onely flourisheth in blades. and is often gathered as Liekes are, and therefore onely is fowne, and not fet in Februarie or Warch in faire weather, and in the wane of the Some: it belighteth inrich ground, well digged and bunged, and therefore Columella would have the ground well fale lowed, that it may be mellowed with the Winter frolks, and ale ter dunged, after well digged againe, and the rotes and wedes cast out, laid out in beds and foluco : it is called Fishie, because it is parted and divided below, for in the Tainfer it is left with his top naked: in the Spring time the blades are pulled off, and others come by in their places. The heads are let, and if you plucke amay the taples and the out-growings when you let them, they will grow to be very great. Twenty baves before poulet them, bigge the ground well, and lay it day, and so thall they prosper the better. The heads are let in Autumne, and grow to feed as other plants doe: if you meane to gather the fædes, when the stalke is growne, you must propit by with little Kickes, that the windes haking of the falke, hatter not the febrs, nor breake the falke: which feede you must gather befoze it be all blacke, for the blacks neffe is a true figne of the full ripeneffe: if you will not have it fed but head, plucke off the blade fill close by the ground, so thail all the maintenance goe to the rote. Among all other hearbs, onely Onions. the Onion is not subject to the force of the Done, but hatha cons

trarie

Onions.

Fiffile.

trarp power, for it wareth in the wane of the Hone, and decreas feth in the encrease of it : pet there are that holo opinion, that if you fold them in the wane, they will be the finaller, and fower; and in the encrease, they will be the greater, and the milder. The red Dnyon, is more than the white, they are bett preferned in Barley chaffe, if firtt poudip them in hot water, and after day them in the Sunne, till they be through day. They are of the common people thought to last longest, being hanged by in the fmoke : for the kindred it hath with the Dnyon, I proceede to speake next of Garlicke, called in Latine Allium, in Italian Garlicke. Aglio, in Spanish Aio, in Dutch Knobloich, in French Aux, if groweth with a blade like the Dnyon, but not hollow, the falke round, and the flowers in the top in a round tuft where the feede lyeth. Barlicke groweth both of the head and the feede, as the Dupon and other of this kinde both. It is commonly fowed in Februarie or March, according to the disposition of the weather. as the Onyon is. It would be fet in the uppermost part of little narrow ringes, the Clones being diffant foure of fine inches one from the other, and not very depe. After, when the Cloues have put forth the little Arings, or when their blades are come by, they must be well raked, for the offner per boe fo, the greater they will be : but if you will have the heads the greater, before it grow to falke, you hall winde and wreathe the grane blades together, and tread them to the ground, for that continuall treading boon them will make them the greater. In Dasber the Cloues muft be plucked afunder, & fet in row bpon high borders. that they may scape the danger of the winter stormes. They say the fcent of them will cease if you eate after them the rote of Bets tofted at the fire: thus faith Plinie out of Menander.

THE A. What hearbeis that yonder, that commeth by so hie as a man may make a staffe of the stalke, the leaves large and round, the slower in shape seeming to compare with the Rose?

Mar 1 v s. It is Holioke, or Garden Pallow, in Latine Mallowes.
Malua hortensis, in Dutch Peppel, in Italian and French almost
us in Latine.

THRA. What, the same that Horace taketh to be so wholes fome for the body and which of Hesiodus and Martial is so highly commended?

刊 2

MARIVST

Mar I v s. The very fame: and also which is moze wonder, full in it, the leaves turne about with the Sunne, so that it may ferue in feed of a Dyall, declaring by the turning of his leaves what time of the day it is, though the Sunne doe not thine, which the Philosophers thinke to bedone, by the drawing of hismop. Aure. In Affrica, as Plinie writeth, it commeth in feauen moneths to be like a young tree, and ferues well for a walking faff. It is fowed in Daober, or in the end of the Summer, as also at other times, that by the comming on of winter, it may be retrayned of his high growth: it reioxeeth in rich and moiff ground, and muff be removed when it commeth to have foure or fine leaves, it growith best when it is young: when it comes to be greater, it dies in the remouing. We ble it both for the pot and for fallets, the talke is better luben it is not removed: you must folve it but thinne for growing to rancke, and in the mioft of them, you must lay little clods or Kones, it requireth continuall raking, and may keth better the ground where it growes.

THRA. I maruaile whether you fow Purcelaine, fith it

groweth wilde abroad.

Purslaine.

MARIVS. The Latines call it Portulacan, with the Italians it hath the same name, in Spanish Verdolaga, in French and Dutch Porchelle, it is sowed in Gardens, and well ordered both grow the better, and spreadeth the farther, it hath a blacke sede growing in little griene curs.

Buglose.

THRA. Buglose, that the Latines call Buglossum, the Dutchmen Ochsenzung, or Burrersth, the Frenchmen Borauge, the Italians Borache, the Spaniards Borace. Is not this if that Is here with the faire blein flowre, and a stalke a foot long, and full of branches?

Marivs. Buglose is at this day with the Pothicaries called Bozage, though they differ something in the slower, and in very deede they are two sunder Heavies: for some call the common Bozage, the letter Buglose, and the greater Buglose is thought to be that which Dioscorides calleth Circium, the true Buglose: the slowers of both sorts are vied in Sallets and in Wine, because it maketh the heart merry, and therefore is called in Greke hupeosuch, that is to say, gladnes: the leanes are also bled in dressing of meates, it is somen about Harch, & once seven

it will never away, there is also a wilde kinde of it.

THRA. I praypou goe forward, and tell be some thing of Strawberries, which here grow with great plenty and beauty,

belped as it fæineth with good ozdering.

MARIVS. They are to, for we ble to bring rotes out of Strawthe woods, which being let and planted in the Garben, profper er, beries. expingly two or their yeres together: and after, wer epther remoue them againe, because they ware wilde, or set the wilde in their places: and is have wethem to pielo their fruit twife in a piere, in the Spring, and in the end of Summer. And although it groweth of it felfe in thaddowy wods in great plenty, as if it belighted in Chavoln of Trees, yet being brought into the Warden, it delighteth in funny places, and good ordering, prelding a great deale more and better fruit : it crepeth bpon the ground without a Calke with small Crings comming from the rote. with a white flowie, and a leafe like a Trefoile, indented about. The berries, which is the fruit, are red, and take very pleasants lp: the Dutch men call them Erdbern, the frenchmen Freses. There is another fruit that groweth something higher, whose berry is also like the Strawberp. Dioscorides semeth to call it Rubus Idaus, the Baper of Ida, because it grows Raspes. eth in great abundance bpon the Dountainelds. It is not full of prickles, as the other brambies are, but foft and tender, full of branches and whitich leaves, it beareth reade berries, formething paler than the Strawberp, and bery pleafant in talte. The Dutche men call it Imberen, the Frenchmen Frambolas.

THRA. What is that groweth yonder, a pard in height?

M A R I v s. It is commonly called Liquerife, in Latine Dulcis Liquerife. Radix in Italian Regolitia, in Spanish Regaliza, in French Re-

cliffe, in Dutch Clarits, oz Susth Its.

That A. I did not thinke to have found it here. I heare it groweth very plentifull about the Peine, I would be glad to heare how doe you order it, for it hath a rote for the sweetnesse thereof (whence it taketh his name) very commendable.

MARIVS. It is let of young springs of the rote: as the

Hoppe is, in daie light ground and funnie.

THRA. What say you to small Keazins, called in Latine SmallRea-Ribes, doe you thinke the olde writers knew this bush: zins.

19 3

MARIVS

MARIVS. That which we call at this day Ribes, and the Dutchmen Saine Iohns Pearle, besaule about Diolummer it is garnithed with red and rich berries, having a tarte tatte, quench. ing thirff, chiefly, the raging and extreame thirff of fevers, and coling the Comacke, which the Apothecaries in Suger oz Bonie keep all the yere, it is thought it was buknowen to the old wife ters : but now a common buth vied for encloting of Gardens, and making of Bozders and Arbours: it will eafily grow, but that it is something troublesome, by reason of his tharpe patchtes to bebent about Sommer houses.

Hoppes,

THRA. Pou spake even now of Hops, doc you set in these your princely Paradices, that plant that is to common with the Countrey man about bs: they make great gaine of it.

MARIVS. Well you therefore, I pray you, how they doe

bleit.

dering hereof, in Mafter Reynold Scots booke of Hoppe-Gardins.

Reade the THRA. It is fet of the yong thotes, as you tolde a little beperfect or- fore of Liquerife, and that in the end of Sommer: or if they feare a hard winter, in Parch. The lets or Motes are cut from the olde rotes, and are fet in ground well conered with doing and good mould, and afterward hilled, and fo fuffered to remaine all Winter. In the fpzing, the earth is Kirred with Rakes, and not with Spades, and the hilles raised, and the ground rid of all burts full wiedes. About Paie, certaine powles are fet bp, bpon which the Hoppe climbeth: all the spray that springeth about the flowie is commonly cut off. About September, or in the end of August, the flowers or bels are gathered and kept to make Bere with: when the Doppes are gathered, the remaines are sut downe close to the ground, and the Hils being againe railed, are covered with dung. The tops, and the young buds that come first out in Apail, are bled to be gathered for Sallets, and kiepeth them from grows ing to ranke. But now I pray you goe on, and returne to the description of your Garden. D inhat ercellent Belons , Poma pens, Cucumbers, and Gourdes have you here, I pray you tell in what fort you order them.

Marivs. Welons (which fome, because they are fashioned like Apples, call Pomes) are of like kinde of Cucumbers, and fo are the Pepons, which the Frenchmen call Pompeons. The Cucumbers are called in Latine Cucumer, in Italian Cucumero

Cucumbers.

02

or Gedruolo, in French and Dutch Cocumbre. They change to Dompeons, and Dulkenullions, from which they onely biffer in hape and greatnesse: when they erced in greatnesse, they bes come Pompeons, and when they grow round, they are Delonpompeons : all thefe kindes are called of fome waiters Delons. The Grecians call all the forts, as well Cucumbers as Delone pompeons, by the name of Pompeons and Belons, though there are some that make a difference betweene Dempeons and Melons, neither one the learned pet throughly agric bpon thefe mames, noz can it be certainely faid what kinde the olde waiters meant by Pompeons, & Delonpompeons. Pompeons doc creepe along boon the ground with rough leaves and pellow flowie, and are pleasant to be eaten when they are ripe. The sweetest fort of them they call Successo, or Muskemillions. The Aprions pompeons are supposed to spring firt in Campania, being fathics ned like a Duince. This kinde hangeth not, but growith round lying bpon the ground, and being ripe, doe leave the falke,

Some Cucumbers are called Cirini, of their yellownes lobent they be ripe, and also Cirroli, oz Cirroli, they grow all in length, and are spotted as the Citrons are : some be called Marin, and be called in Italian Cuculla Marina, the fet whereof is to be eaten before they be rive: they are cut in pieces, and porredge made of them, not much bultke in fathion to the Welon. There is also another kinde of Eucumber of a huge compaste, almost as big as a buthell: the Wowers and Haruck folkes in Italie, vieto carry great peces of them to the field with them to quench their thirft. Pou must let all these kindes in Parch, the scedes must bee fet thinne, two foote one from another, in watrie ground well dound ged and digged, specially sandie ground : you must lay them in Wilke, or water and Honny three dayes: and after orie them and solve them, so shall you have them very pleasant. They will have a very fret favour, if their fiedes be kept many dapes as mong Kole-leaues. Pour Cucumbers Mail be long and tender, if you fet under them water in a broad vessell, two handfuls bue der them. They belight in water to much as if they be cut off, they will pet bend toward it, and if they hang or have any flay, they wil grow croked, as also if you set offer them, which they greatly abhorre. The flowers being suffered to grow in pipes, do grow a a rabinact 194

Gourds.

wonderfull length. They love not the Winter no moze then doth the Courd, inhereunto they are almost like in nature: for the flowers, the leaves, and the claspers, are like of them both : but the Courd is moze bufie in climbing, to that with hally growth, it spreadeth quickly over the hearbs and Summer-houses, running by by the walls, and mounting by to the very Tiles of the houses, having a great feuit of a montrous bigneffe: hanging by a fmall Stalke, in fashion like a Peare, and græne in colour, although when it hath flowerd, it will grow in what fashion you will have it: they say, there hath beene some of them nine sote in length. The round ones also grow to be vsed for great bestels: the rince of the new ones, is folt and tender, but of the old ones hard, where, of when the meate is out, travailers make great bottels to carrie dainkein. The Gourdsthat are bled to be eaten in Summer, are funday in chape, some are round, some long, some baoad : and though the fathion be divers, pet the nature is all one: for it is made by Art to grow in what chapeyou will, as in the forme of a cries , ping Djagon, og what you lift, they are called in Italian Zuma, in Spanish Calabaz, in Dutch Kuirbisch, in French Vne courge. The feedes that the Bourd beareth next to the Stalke (as Paladius faith) are longest, they in the middest round, and those that lie on the fide, Most, broade, and flat : if you let the Marpe end of the free downeward, as Columella faith, pou thall have them both greater Courds and Cucumbers. It delighteth in a moiff, rich, well dunged, and well watred ground. That which groweth without water, brings the pleasanter fruit: and that which hath water enough, nedes the leffe loking to. The flowers where they befet, muft be digged a fote and a halfe depe, the third part whereof must be filled with strawe, and then with good rich mould : it must be filled to the middest, then the feedes being let, must be waterd, till they be spring, and after, earth late to them Willas they growe, till the Furrow be filled. They muft be fet thinne, two fotea funder, it commeth by in fire og feanen dayes after the fetting. Those that are set in tree ground, must be berie well watered, therefore they ble to fet by them earthen pots fuil of water, with ragges or cloudes in them to water them. When they be a little growen, they mult have helpes let by them to climbe byon, the longer they be, the better the meate is.

Pou must beware there come no woman nere where you fette them, for their presence doth greatly hurt them. Those that you keepe for læde, you must suffer to remaine byon the stalke till Winter, and then gather them, and dzie them, either in the Sume or in the smoake, for other wife the seede will rot and pes rith. They will long be preferued, and continue freth, if after they begathered, they be put into a close beffell with the Los of white wine, or hanged in a vestell of Ainegar, so that they touch not the Uinegar.

THRA. What meaneth that great Thistell that spzingeth

there ?

MARIVS. Did you never read in your Columella of the Bars tichoch, specially in his verses that he wrote of Gardening, where he faith :

Goe set the brystled Hartichoch, That well with wine agrees, &c.

Athenœus in his fecond bothe Dipnosophus out of Sophoclus. A Thisell is the Partichoch that every where doth grow. It is a Artichoch kinde of Thikell, by the viligence of the Gardner, brought to be a god Garden Hearbe, and in great estimation at Poblemens tables: it is as you fee, framed with a ground prickly head, having a great fort of Flakes fet in order tieplewife. The Latines call it Strobilum, because the fruit of it something resembleth the Dince. apple. The Frenchmen call it Alticocalum of the Arabicke atticle Al, and Cocalos a Dineapple, whereof it is corruptly called Artichaule, in Italian and Spanish Cardo, in Dutch, sometime by the French name, sometime Strobrin. It is called of Columella Cinara, because in his growing, hee chiefely delighteth in Albes. The feed is best sowen in March, and the sets in Nouember : if pou will have it pield fruit in the spring, you must bestow much athes boon it: it will hardly beare the first piere that it is sowen. Beware that you fet not the fiede with the inzong end byward, for so Mall your Artichoch proue very little and entil fauoured: It loueth good ground and well dunged, and prospereth belt in fat . ground. Palladius would haue pou mozeouer, to fet the fædes in well ordered beds, in the encrease of the Done, haife a sote a funder, and not depe, but taking them in three of your fingers, thank them downe, till the earth come to the first tomts of your fingers 2

fingers, then cover them tenderly, and water them often, speckally toward Summer, so shall you have the bigger fruit. Then they grow by, they must be continually weded and dunged, as J said, with ashes. They say, they will lose their prickles, if the tops of the sede be made blunt byon a stone before they be set: and sweet they will be, if the sede be laid in Hilke. You must kiepe them from Howles and Pile, with Cats or tame Wesles, as Ruellius teacheth you. Athenxus calleth the stake of the Artisthoch, uantop, that lieth byon the ground, and that which stander eth byright, wagnixa.

THRA. Well, what hearbe is yonder same that commeth by as it were haires, with a blewilh slower & pale, having in the middelt of the belies, as it were, sterie pellow tongues?

MARIVS. It is Saffron, in Bzeche ngónoc, in Latine Cro-

cus, in Italian and French, so in Spanish Aczafran.

THRA. What niede we care any more for either Coricum, Sicil, or Cyren, from whence wee fetch it with so great that wes?

MARIVS. Dea, there groweth great plentie of it in Wers manie about Spirs, and diners other places, which may compare ingwone We with any other place. It is fet in Parch, of the head that it hath, round, and in Cloucs as the Lyllie, the Leke, and the Dea Dnion. Conffantine affirmeth, that it may be fet of therot, as some as the flower is off. The rotes of the heads doe so ens crease bnder the ground, that of one of them some yeare springeth eight or nine others. In many places they are removed energ feauenth or eight piere into bitter ground, whereby they come as gaine to be as god as at the first. In the Countries lying about the 18hine, they plack them by enery third giere, a lay them a days ing in the Sunne till August, and then pulling off the outer fain, they let them againe halfe a fote one from the other: the best heads are those that are fattest, and have little haires, the knowle loke rottenly and ill favouredly, and have an ill favour: It des lighteth to grow by high wates and neere fprings, and to be troad and trampled on, prospering as it were by oppression: it groweth greene all the Minter, it is gathered in Autumne, when it is come to his colour, by plucking out the little pellow tongues from the bell, which are afterwards dried their or foure dates together,

Saffron.

and well picked and purged, and fo made bp in Borcs : fome thinke it best to day it in the shadow. It is crastily counterfeited by the Apothecaries, braying it in fod wine, which they befineare, adding thereto the fcum of filuer of lead to encrease the weight, the craft is perceived by the outtinette thereof, and by the favour of the fod wine. The profe of the god is, if it crackle betweene the hands as a brittle thing, which the counterfait both not, or if in putting it to your mouth, it cause pour eyes to water. Wheres fore, the best is that which is new, and hath a pleasant smell, in co-Lour like to Gold, and dieth the fingers in touching it. In Warch von must purge the ground where it groweth, and whether ye pluckett by or not, not with fanding, other hearbs may bery well grow there butill August : Purficine, Parfley, or fuch like hearbs Doe best grow there. And when the Saftron beginneth to flowie. pon must rid away the other hearbs : for in Barnest time about September oz Daober it flomzeth.

THRA. Here is great Hoze of Molemarie, the chiefelt brauty Rolemary.

of Barbens, and not to be wanted in the Bitchin.

MARIVS. Dithe ordering of Kolemarie, fith you will have me, I will speake a little. There are which supposett to be the fame which the Brekes call A Cavoric, because it sausureth like Frankencenfe, in Latine it is called Rofmarinus, and in all other tongues it kepeth the name, it ferueth both for pleasure and profit. Theophrastus maketh two kindes of it, a barraine, and a fruitfall, and is fet of finali fips in Apaill: it is fet by women for their pleasure, to growin sundry proportions, as in the fathion of a Cart, a Pecocke, or fuch like thing as they fantie. It belight teth in Ronfe og rough ground, and in the tops is the fied enclosed in little hufaes white and round. It floweethtwife a piere, in the Spring, and inthe end of Summer: it is gathered from Paptill Beptember , and it is good to plucke off the floinge often, that it map not flowe to much. In the higher parts of Fraunce it aroweth wilde in such pientie, that they ble almost no other fewell : it is in colde Countries in Winter fet in Sellers and hot houses, and is brought againe in the Spring into the Garden. But here you must beware, that when you first bring it out, you keepe it from the Parch Sunne, fetting it in the thaddow, acquainting it by little and little with the agre : fome ble to house is with. Sage.

Mints.

with Strain and Horse-dung, and so leaueit in the Barden. Sage, in Latine Saluia, and like in other Languages, is an Bearbe common in every Garben : it is planted both of the feee, and of the flip, in Warch, in any kinde of ground, it maketh no matter where: the Gardners ble to lay bucking albes about it, where, by it prospereth the better. Dert to Sage, is Mine, in Latine Menta,in Dutch Myniz,in Italian and French, after the Latine, in Spanish Yerua buena: it is planted and ozdzid in all things as Sage is: it prospereth both in dry and wet grounds, and grows eth well by waters. If poulacke lieves, you may take the leds of the wilde Pint, and fet them with the tops downward, wheres

Hylop.

Sauorie.

Bafyll.

by they thall leave their rankneffe; and being once folune of fet, Pimpernel groweth encry piere. Pimpernell, in Latine Pimpinella, is bled both in the Bitchin, and in Philicke: and being once folune, grows eth enery years, both in funnie places and in thadowy: it grows eth in most places wilde. Hylope, in Latine Hillopus, and focals led in most Tongues in Europe : a common Bearbe, knowne to every Bardener : it befireth , though no funny ground, pet gos

and rich ground, it is planted both of the fiede and of the flippe: when it hath once taken rote, it eareth not for the Charpnelle of winter. Sauorie, in Latine Saturcia, 02, as Columella faith, Cunila, in Italian Consella, Sauoreggia, Thymbre, in French, Sauoreie, in Dutch Kuuelzwibelhisop, groweth in barraine places, and is fet and sowed as the plants befoze. The next is that which come

monly is called palyll, in Latine Ocymum, in French, Italian, and Dutch, Balilica: an hearbe that is bled to be fet in the miot of knots, and in windowes, for the excellent fauour that it bath: it is also good for the pot: it is solved in Parch & Aprill, and delighe teth in funny ground, pou must put two foos Will together. Balill is best watred at none, whereas all other hearbes are to be was tred in the morning and in the evening, it may be removed in May. Theophrassus sayth, that it prospereth best, when it is

Marierum folived with curfes, Marierum, in Latine Amaracus and Maiorana, is also in like fort vied: the Dutch and the Italians call it after the Latine, the Spaniards Amoredux, the French Mariolaiene and Thyn, in Greeke of Dioscorides & Paulus Æginera συμποικον: this also for the pleasant sauour it hath is set in pots and in Gare bens : it is solved in Marchthae or foure leds together, and hatte

a fote asunder, in Pay when it groweth to some height, as Was fyll, it is remoned. Time, nære of kindged to thefe, in French, Time. Italian, and Dutch like the Latine, in Spanish Tomillo, beligh, teth in Kony, light, and funnie ground: it springeth both of the sed and of the flippe, and also of the flowie, as Theophrastus saith, These thie tender and delicate Heards, are to be solved with great hede, either in carthen pots, or in Garden beds. Hitherto have I described buto you such Heards as serve for the Litchin: and because the later soft are also estimed for the sauours, I will goe forward with the description of the rest that are set in Bars dens for the pleasure of them, and for the sauour, doe garnish the faid Gardens, and ferue also for other purposes. Of Rolemarie I spake before, I will now proceede with these that grow before my fiete. Lauender, called in Latine Lauanda, 02 Lauendula, that Lauender. groweth in bozders about the beds, and keepeth the Latine name in other tongues, both grow in wilde places and Conie: it is let of the flips, and removed: it groweth to Spike in June, and in July is gathered and tred in bundles for the favour, the flowie is distilled for sweet waters. Flowre-gentle, in Latine Amaranthus, Flowre though it have no favour at all : yet hath it a velightfull beautie gentle. to the eye: the Frenchmen, for the fairenelle of the colours, er, celling both Crimfon and Burple in graine, doe call it Palleuelleurs, the Italians Fiorueluto, because it contendeth in colour with Crimson in graine: it loueth to be often gathered and pluce ked, whereby it springeth the better: the flowers after they be dead, with a little water come againe to their colour : it is called Amaranthus, because it dueth not.

THRA. Dere followeth Lauender-cotten.

MARIVS. This Lauender-cotten : some call it Santonia, Lauender and female Southernewood, in Dutch it is called Cypreisen, in conten. French Cyprez: it groweth commonly in Gardens, springing euery piere. Myrtell, in Latine Myrtus, in Italian Myrto, in Spas Myrtell. nish Arabian, in French Meurte, in Dutch Welscheidelber, the leaves are not much buitke the leaves of the Dive tree, some, thing smaller, with slender branches, and leaves growing in or der one by another, as you fee, with blacke berries, and leafed like the Pomegranate. It groweth alwaies græne: it is set and sowed both of the seede and sippe, and the stocke; but you must fill

still raise by the earth about it: till it be throughly roted. Some sow the berries being a little beaten, and covered in Furrowes of earth: it delighteth in continuall widing: so groweth it to a handsome height, miete to shadow Hearts: it loveth to bie watred with the Urine of men, or of spepe. This onely is to be wondred at, that of the liquour thersof alone, may be made all sorts of Wine and Dyle: Cato teacheth to make Wine of the berries, being dryed, and put in water and hony sodden together: if they be not dryed, they some to Dyle: how the Wine of them is made, Dioscorides sufficiently declareth. Plinie reporteth, that Cato made three sorts of Apritels, white, blacke, and a third kind, that he calleth Coningale: it delighteth to grow by the Sea bankes, as Servius saith, it groweth at this day commonly in Italy, along by the Sea coasts.

Geliflowrs

THRA. Dh what sweete and goodly Gelislowres are here! You may truely say, that Salomon mall his Princely pompe, was never able to attaine to this beautie: some of them glitter with a perfect Crimson dye, some with a deepe Purple, and some with a passing beautiful Carnation: I marualle theold writers knew

nothing of thefe in their time.

MARIVS. There are some that suppose it to be a kinde of Barden Betonie, which the Bardners fetching out of the field, and thruffing Cloues into the rotes of them, with diligent plans ting, have brought to this excellency: others thinke it to becale led Veconica of the Spaniards, who first found it. Some thinke it to be Oenanthe, because it flowzeth with the Mine: it belighe teth in warme funnie ground : it is sowed seldome of feede, but commonly let of the Aips, as I layo of Rolemarte. The Bards ners in the end of Summer, doe take the rotes and fet them in Pannes, Pots, or Pailes, and when the frosts come, they carry them into their Sellers, and in fayze warme dayes bying them abroad againe, and luffer them to be now or then watred with the rayne. It hath biene often siene, that in such vaults or sellers they have flowed all the Winter long, through warmenche of the place: some set boughes about them, and couer them with Araw and Horse-dung, to preserve them against the cold: it often happeneth that one rote beareth one pere white Colores and red, and the third speckled of Carnation,

THRASIVS. Loe, ponder are Roses growing in Bozs bers, and made in a maje: doe they grow of the fiede, or of the fet ?

MARIVS. Roscs, called in Latine Rosa, and in all other lan, Roses. anages as in Latine, are divertly planted, sometime of the rotes, sometime of the braunches, being cut in small sets, and planted a fote asunder. Some wreathe them in Garlands, and so fet them to have them smell the pleasanter. The vie of sowing of them is best : how be it, they will very well grow of the feet, though it be long ere they spring, and therefore they set them of fets a fote in length, it neither delighteth in rich noz morte ground, but is well contented to grow amongst rubbish, and bue der walles. The places where they must grow must be digged deper then Come ground, and not fo deepe as the Tinepard: the Role is rather a Thome then a plant, and groweth upon the very brambles : it commeth first out in a little budde and long Marpe beard, which after they be opened, it discloseth it selfe and suzeabeth abroad, with a pellow hairie tuske in the miost. Plinic maketh mention of funday foats of them : one foat he calleth Milesia, hauing an Dzient and fiery colour, an other Alabandica, with white leaves, and Spermonia, the bafeft fort of all: the Damafke . and the White, are bled for fivet waters: they differ in roughnes, prickles, colour and fmell. There are that have but onely fine leaves, and others with an hundred leaves, neither god in beauty noz in fmell: the roughnes of the rinde (as Plinie fagth) is a figne of the favour. There are some little pale ones, called Carnation Muske and Promincars, these doe wonderfully grow where they once are Roses. planted, and have a most excellent favour. La ofes are bled to be fet in February, which is either some with the fied, or the fet planted in little Farroines. The faces (as Paladius fauth) are nor the little pellow things in the midt of the Rose, but the graince that grow within the red riped Berry: the ripenes inhereof is demed by the fwarthinesse and the foftnesse of the berrie : inhere they once are planted, they continue long, and after they die, they fend out new buds and springs. If you lacke fets, and would of a few have a great number, take the braunches that begin as it were, to their buds, and cutting them in funday fets, foure or five fingers in length, let them in god ground well bunged and watered:

watered : and when they be of a peeres growth, take them by and fet them a fote afunder, proine them and trimme them with often digging about them. Roles mult ftill be cut, for the more you cut them, the thicker and the doubler thep grow, other wife. they will ware fingle and wilte, it will also doe them good some time to burne them : being remoued, it fpzingeth berp fone and well, being fet of fets foure fingers long and moze, after the fet ting of the feauen Starres, and after remoued in a Welterly winde, and fet a fote afunder, and often digged. The old Hofyars must have the earth losed about them in February, and the dead twigges cut off, and where they ware thinne, they must be repape red with the young fpringes. To have Roles of five fundry con lours bpon one rote, make when they begin to burgen, a fine hole beneath in the stocke bnder the topnt, fill it with red colour made of Brasell sod in water, and thrust it in with a cloath, and in the like fort put into another part of the Mocke greene colour. and in an other vellow, and what other colours you will a coucr the holes wel with Dre doung a Lome, og berp god earth. If pou will have your Roles beare betimes, make a little trench of two hand bredths round about it, and police in hor water twife a day, and thus doing, ( as Democritus promifeth) you hall have Rofes in January. Dou may preferue Rofes before they open,if. making a litina Riebe, you enclose the blossome, and when you would have fresh Roles, take them out of the Redest others put them in Carthen Pots close couered, and fet them abzoad : the Roles continue alwaies fresh that are dipt in the Dregges of Dyle. If you will have them at all times, you must fet them every moneth, and dung them, and fo (as Didymus faith) you thall have them continually. To cause them, or any other flowers to grow double, put two or their of the feedes in a Wheat fraw, and fo lay them in the ground. If you let Barlicke by your Roles, they will be the liveter: the deper the ground is where they grow, the singeter they will be, as it appeareth by the season of the piere, for some pieces they are sinceter then others : the Rose will be white, that is smoaked with Baimstone, when it beginneth to open: amongst all Roses, those are most to be commended, that they call Carnations and Pronincials. The Ople of Rofes was greatly had in estimation even in Homer his time, and at this day

the Umegar of Noles is great y bled. Pert buto the Nole in worthineste, for his fauour and beautifull whitenesse is the Lillo, Lillies. called in Italian Giglio, in Spanish Tirio, in French Fleur de Lis, in Datch Lilien. The Greekes hold opinion : that it fprang first of lunos Wilke spainciled boon the ground. In februarie we begin to fet Lillies, og if thep grew befoge, to lofe the earth about them with a rake, taking god have that the poung tender thores about the rote be not hurt, not the little head, which tar hen from the old rote, we fet for new Lilies. As the Nofes are, to are the Lillies, the fineter, the drier the ground is where they grow : Lillies and Rofes being once fet, continue both bery long. There are red Lillies made lo by Art, for they take the Walkes and totes of the Lillie, and hang them in the finoake till thep wis ther, and when the knots begin to bucouer, they are laid in Parch in the Less of red wine, till they be coloured, and then fet in the ground, with the Lies power about them, fo will they come to be purple. Mielet in Breeke is tor, in Latine Viola Wielet black, and Mislet purple, Iou μέλου, και ίου ποςφυέξυ, in Italian it is called Viola porporia, in Spanish Violetta, in french Violets de Marts Violets, & Carefine, in Dutch Fiolen : thefe although they grow wilde a bout enery Bedge and Wall: pet are they fet in Gardens with other flowers.

There are funday forts of Wiolets, both of kinde and colour,

but the ordering of them is in a manner all one.

THRA. I have now heard enough of kitchin hearbes and flowers, therefore now, I pray you, let me heare you far fomes thing of the third fort, that is Philicke hearbes, for me femeth T

fee a great fort of healing hearbs here in pour Garden.

Marivs. Pature hath appointed remedies in a readinche It is but for all discases, but the craft and subtiltie of man, for gaine, hath the opinibenifed Apothecaries thops, in which a mans life is to be fold and Gardiner. bought: where for a little byle, they fetch their medicines from Diecufalem, and out of Turkie, while in the meane time energy pore man hath the right remedies growing in his Garden: for if men would make their Bardens their Philitians, the Philitians craft mould cone d. cap. Dou know what your olde friend Caro faith, and what a deale of Philicke he fetched out of a wore Colmmat.

THRA. I doeremember it, and that he faith he was wont both to helpe himselfer and his whole samily with the hearbes of his Garden. Wit inhat hear be is pomort with the long ftalke, and the long blacke indented leanes on the top ? If I be not Deceiued itis Bearefote, with wholerwie we vie to heale our catteil when they be licke.

.JIOFF

Bearefoote MARIVS. It is so indiede, and is called in Latine Veraor Sener- trum, there are two kindes of it, the blacke and the white: the Wranckraut, the Blacke they call Kristwurts, becanfeit flowgoth about Chaifts malle: the Italians, the Spaniards, and the Frenchmen beepe the Breeke name. The rote of the Bearefot they thruft through the eare, or into the breakt of the beakt, that is either difeafed in his lungs, or hath the Burren. Columella fæmeth to call it Con-

tigillo : it grometh not in Gardens, ercept it be fowed, it contis mueth long, and loueth colde and woodie ground. There francs, not farre from that, another very noble hearbe in Philiche called

Angelica, it is supposed to be called in Bzete augers, and whether it be Myrrhis with the Latines or no. I leave that to the Philitis ans to discusse: it is called with the Italians, Spaniards, French

men, and Germanes Angelica. Dis rote, because it is a souce raigne remedie against the plague, and hath divers other god oper vations, it is cherified in our Gardens, and being once fomed, it

commeth by cuery piece: it groweth allo wilde in the mountaine. Countrey, and floweethin Julyand August. Were is also Heli-Helicam papa. campana, in Latine Enula, in Italian Encla, in Spanish Enula cam-

> pana, in French Aulne, in Dutch Alaut, this also is let in our Wardens for medicines lake, and we make much of it for the rot, it groweth wilde in the hilly Countries, and dep thaddowie places.

> In Summerthe rote is taken out of the ground, and cut in Small pieces, and fadgied : at this day it is called Enula campana: it hath a pellow flower, a leafelike Pullin, but white and hoarie at the

> one fide. Mozmewod, though it grow in enery place, pet this that you see here is Komane er Pontike. Wormewood, the Las

tines call it Cerephium 02 Absinthium Romanum the Dutchmen Romischewermut, the Italians Alfenso, the Spanistes Enfænsos,

the Frenchmen Aluine and Ablince, this kinde is let in our Garbens, and thought to be the best. Sauine which we have here

Angelica.

Wormewood.

Sauine.

alla

alfo in our Gardens, for diners difeafes of Cattell, is called in Las tine Sabina , in Dutch Seuenboun, in Italian as in Latine , in Spanith likewife, in French Savinier, it hath leanes like Zunie per of Typics, alwayes greene, there are two kindes offt, one like the Tamariske, the other like Typies : it is a buily rather spreading in breadth, then growing in height: the Userries which be beareth, may be gathered in the end of Summer, or any other

THRA. But many times we for Bardens to be deffroyed with wormes and bermine, what remedy have you for this?

MARIVS. Df the faults of the ground, and the remedie thereof, as the amending of either to much meisture or drinesse: A spake in the beginning, touching Wlosmes, Flics, and other vermine that annoy the Gardens, which for the most part are thele, Caterpillers, Snailes, Boles, Wice, Onats, and Antes. There are that lap, that if you mingle with your leedes fote, or Against the Juice of Houselicke, og Singran, the Caterpillers will not Caterpilmeddle with the hearbe that springeth of such sieve : and that thep lers. will doe no harme to your Trees, if you franchle them with the water wherein the allies of Mines hath beine late: mozeover the stalkes of Baritche made in bundels, and burnt in Dechards or Bardens, dellroyeth the Caterpillers. They will not bred (as they fap) if you burne about the rotes of your hearbes of Tres, quicke Bzimftone and Lime: the fame they report of Lie made of the Fig tree, Ants will not annop your come or hearbs, if you ens compasse it round with Chalke, or put into their hils, the allies of burnt Snailes, and if feme of them be taken & burnt, the reft foill not come nere the lauour : if Alla focida be laid in Dple, and polis red bpon their hills, it biterly dellroyeth them, they wil not touch the trees not the hearbs, if you annoint the falkes with bitter Lus vines, or time laid with ople. You mult hake off the Catervillers in the morning, or late in the enening when they be numbed : also water wherein Dill hath beine fodden, cast about in the Dechard when it is colde, deftroyeth them. It is weltten, that if you fet Thiches about pour Barden, Caterpillers wil not breed, and if thep be already bred, you must firth the tupce of Wormewoo, and cast among them. The dung of Bullocks burnt bpon the coales, Deftropeth Chats: the like also both beimitone: a spunge wet with Gnats.

binegar and hanged by, dealveth also finarmes of Gnates buto it: also the main of a Shope new killed, not washed noz made cleane, if it be laid in the place where Wothes, oz other fuch ber mine doe ble, and conered a little the byper part, you hall after two dayes finde all the nopfome Aermine crept into it: thus must you doe twife of thise, till you thinke you have deliroged them. all. Of killing and driving away Woles. Socion the Grake was teth, that you must take a But, or any like fruit, and making it hollow within, fill it by with Chaffe, Rozen, and Bzimftone, after ward Coppe the bent holes that the Wole hath in every place, that the imoake breake not out, oncly leaning one open, lubere you fhall larthe Aut, in fuch fort as it may receive the winde on the backe part, that may drive the smoake into the Dines, there are also traps to be made, for the destroying of Polcs: a frame is to be let byon the new Hilles, with a piece of woo lo hollow and franco that it may receive (as it were in a Sheath) an other pace of wood made in fashion like a knife, to this is forned an co ther little flicke that lieth in the hole, and is fastned to a Catch without, that as some as the Wole toucheth the Micke within, the is taken presently, as it were, with a payre of Sheares. Wife are taken, if ye power into a platter, the thickest mother of Dyle, and let in the house anight, as manyas come at it are taken: also the rote of Bearefot mingled with Chiefe, Bread, flowie, or greafe, killeth them. Tarte and very harpe Amegar mingled with the innce of Benhane, and sprinkled byon the Bearbes, kills leth the Fleas, or little blacke wormes that be in them. Po kinde of bermine will annoy your Hearbes, if you take a good fort of Crefiches, and east them in an earthen belief with water, fuffering them to worke abroad in the Sounce for the space of ten dayes, and after with their liquour sprinchle pour Bearbes. But I kiepe you long in this ill-faucured Garben, if it please you wee will malke into the Dichard adiopning. THRA. With a very good will, although the goody fayee cos

Of Or-

Ar ivs. Both the Garden and the Dichard are inciosed with severall hedges and ditches, whereby they are desended from

lour and swiet sauours of these Wearbes and slowes, beside the fayze hedges inclosing it, as it were, with a gozgeous graine taper

burttull

Moles.

Myle.

Garden Fleas. hurtfull bealts and buruly folks (as I told you at the first) when I began to speake of the enclosing of Gardens and Dzchards.

THRA. Every thing liketh me passing well: God Lozd what a pleasant ground, what a Paradise is this? me thinkes I see the Dechards of Alcinous, the Træs are set Checkerwise, and so catred, as loke which way you will, they lie levell: King Cyrus himselfe never had better. If Lysander had ther sene this Dechard, he would have wonded a great deale more, then he did

at Cyrus his Dachard.

MARIVS. Such gozgeous Gardens and Dzchards as Painces have, I neither befire, noz meane to counterfeit : but bling the diligence of a poze Countrep Bardner, I build (as they fay) my walls according to my wealth. I framed the order, and let the most part of these Trees with mine owne hands, following berein, the Fathers of the old time, who delighted themselves chieffy with this kinde of Philosophie. So then (as I thinke) the Træs and THods to be the greatest commoditie given to men: for beffoes the house pleasure that they minister buto bs, the gras tious Lozo, that is the giver of all god things, bath also given bs a number of other goody commodities by them, which at the first ferued men for fode, covering, and clothing: which commodities, the very Ethnicks had in estimation. But buto bs that know God, by whom we have received our preheminence above all o ther creatures, which benefit we ought with thankes to acknows leage, the holy Scripture doth teach a moze higher and mpfficall confideration : for before that gracious Lord had framed man, willing to prouide him of fode and apparell, he caused all kinde of pleasant Trees bearing fruit to spring out of the earth, that they might ferue for the fullenance of man : and in the mioft he planted the Tre of life : and thereby, the Tre of knowledge of god and entil : to the end that Adam might have an affured figne of his dutie and renerence towards God, out of which the Lord (as in a Temple did speake buto Adam) and Adam himselfe, if he had continued in his innocencie after his refection of the Trie of life, had with his posteritie preached God, and alwaies biene thankfull bnto him, for his authoritie given bnto him ouer all other creatures, as the Propheticall Pfalmiff fings eth. This that through the bountifull liberalitie of Ged was giucn

given bs to so god an end, the bugodly and wicked posteritie turned to Idolatrie, consecrating both Ares and Groves, to the I, dols of the Peathen.

THRA. What ? me thinks you begin to play the Wzeacher

with me.

Marivs. Surely, there is no better a place to preach in then here, to acknowledge the Creator in his creatures, and by these visible workes: to behold the Almightie and everlasting power, blessednesse, bountisulnesse, and Godhead, of the incomprehensible workman, and alwaies to speake and preach of them: but I will say more hereafter. The planting of Trees doth out of all doubt (as I said) bring but o both profit and pleasures: and therefore this part of husbandry, must not be neglected, for Columella accounts it one of the chiefest points of husbandry, which the Poet seemes to agree onto.

Of tyllage all this while, and of the starres,

We here have talked.

And Bacchus now of thee I meane to fing,&c.

THRA. I pray you then declare buto me, the order of plants

ing and preferuing of Tres.

MARIVS. Let vs first sit downe bnder the shaddow of this faire Wine, that yaldeth both pleasant Wine, and comfortable shaddow.

THR A. Agraed.

MARIVS. The losts of Tras are divers and manifold: some grow wilde, some come of the sæde, some of the rote, as the selfe same Poet saith.

Some forts there are, that of the feede are fowne.
And some that fet of rootes, to feedes are growne.

Some doe grow and spring of themselves: a number of others againe are to be sowne. Those that grow wilde without the labour of man, doe beare their sixts each one according to his kinde: but those that are set and dress, doe yield greater encrease. There are divers againe that are alwaies griene, and doe never lose their lease, which are (as Constantine reporteth) these, the Date, the Drenge, the Lemon, the Cytron, the Bay, the Olive, the Cypresse, the Pine, the Hollie, the Bore, Aprill, Ceder, and Juniper. As sor strange Tries, and those that will growe no

whare.

where but at home, we will not meddle withall : we will there fore begin firft with those that yold be fuftenance, and beare fruit, and those are divided into thie forts : for either of the Sets they come to be Tres as the Dline is, or else thrubs as the wide Date, og neither Tre nog thubas the Mine.

THRA. I defire to heave your opinion of enery fort, for I thinke it no small fkill to plant such faire Barbens, Dichards, and Uineyards. Dethinkes you have bled a fvonderfull god oze Der, that amongit pour Uines, you haucentermedled Ditue trees, Figge trees, Almonds, and Appecots, and that you have severed pour Dechard from pour Barden, and pour Ainepard from them

both, with faire bedges and bitches.

MARIVS. It was needefull fo to doe, least my folkes labour ring in some of them thould come into the reft, contrarie to my pleasure. First, if you will, I will speake of those that bying bs fruit, and then of the wilde, and the order of fetting and planting of Mods. First (as Columella faith) that ground that serveth for an Dichard, will ferue for a Minepard, as pou fe it both here: and if the ground be hilly, rugged, and bnenen, it is moze metefor a Minepard then for an Dechard. If therefore you will make an How to Dichard, you must chose such a ground as is mete fogit: a rich make an ground, leuell, and lying bpon the Sunne, which when you have Orchard. found, you must well enclose it : as I taught you befoze in the enclosure of Gardens, that it may lie out of danger of Tattell and knaues: for although that the trampling, and bunging of Cattell, is not bupzofitable to the Tres, pet if they be either baus fed or broken whiles they be roung, they will some come to nought. When you meane to dielle your Dichard place thus fenced, pou thall make pour furrolves a piere before you plant them, to thall they be well feafoned with the Sunne and theraine: and what soever you plant, shall the somer take. But if you will nedes plant the fame pere, that you make your furrowes, let the furrolves be made at least two moneths before: after fill them full of Araw, and let it on fire. The broader and wider that you make your furrolves, the fairer and more fruitfull will your Tres be, and the fruit the better. Pour furromes muft be made like an onen, or furnace, wider at the bottome then aboue, that the rote map foread the better, and the colde in Wlinter, and the heate in Summer.

Summer, may the better bee kept from it, and also in friepe grounds, the earth thall not to eafely be walhed alway. In fetting of your fruit træs & Mines , you mult place them in ogder, eyther Checkerwise, oz Aetwise: which needfull ozder of fetting, is not onely profitable, by receiving the apre, but also very beautifull to the eye: when as which way foener you loke, you shall sie them Rand in ranke, and which also is to good purpose, for the Ares thall equally receive their morkure from the ground.

THRA. I for the Caroners in enery place observe this og der, setting their Tries in such proportion, as which way soener you loke, your eye Mall not beelet, but Mail fie the Tres fand

Araight in ozder.

MARIVS. I have bled two fortes of this catred order, one wherein my Tres stand foure square like the Chequer or Chessebwed: the other not in square as the first, but Loling-wife oz Diamond-wife , like the glatte windowes oz Dets. Dou mult frame it according to the nature of the trees, left the lower fort be droivned of the higher. Pou muft also fet them a good diffance alunder, that their branches may fpread at pleafure, for if you fet them to thicke, you shall be able to sow nothing be. twirt them, and thep will be the lefte fruitfull. Therefore Palla. Dropping dius would have the space betwirt them, thirtie fote at the least: there is more profit in the generall disposing of them, entermed, ling the greater with the letter, to as the great ones doe not ans noy their underlings, either with their hadow or dropping, for that they grow not equall to them in Arength oz bigneffe. Pomes granates and Wytles must be folved nærer together, as nine fote afunder, Apples never then they, and Weares never then them both: but of them there are funday forts. Almonds and fig Friendship tres mutt also be set nerer. And because there is a naturall friendship and love befinirt certaine Tres, pou muk fet them the nærer together, as the Uine of the Dline, the Bomegramate and the Mystell. On the other live, you must let farre alunder luchas have mutuall hatred among them, as the Wine with the Filbert the Bap. There are some of them, that defire to Cano, five and two together, as the Chelknut: the droppings also do great hurt of all forts, but specially the droppings of Dakes, Pinetres, Palls Shadowes holmes, Dozeouer, the Hadowes of divers of them are hurtfull,

of Trees.

of Trees.

amongst

Trees.

图落:

as of the Walnut tree, whose haddow is uninholesome for men, and the Pine tree that killeth young springs: yet they both resist the winde, and therefore are best to be set in the outer sides of the Drchards, as hereaster thall be said. Of the place and the order, perhaps you thinke I have sayd enough, and loke that I should proceed to the order of planting and setting.

THRA. Withat time is the best for planting and setting of

Eræs :

Marivs. The chiefest time of planting (as Florentine Time of fayth) is the end of Sommer, for then is nature most occupied planting, about the rot, as in the spring about the opper parts: and therefore grafting is meetest in the spring, and setting in the end of Sommer: for the plants are watred all the Uninter, stherefore it is best setting or planting, from the setting of the seauen stars, whill the twelfth of December. In the Spring time, you may Timefor set those things that you sozgat before: at what season sower it graffing. be, looke that you set them in the afternome, in a sayre westerly winde, and in the wave of the Pone. Plinic saith, that this note is of great importance sor the encrease of the Trie, and godnesse of the fruit. If the Trie be planted in the encrease of the Pone, The obting connects to be very great: but if it be in the waine, it will be servation smaller, yet a great deale more lasting.

THR A. Wut are there more wayes then one of Planting

and fetting ?

Marivs. A great lost: we plant eyther by Graffing, let. The kinds ting of the kernell, or the Kone, letting the rotes, Kockes, or lips, of plangrafting betwirt the Barke and the Træ: some are planted ting, and in some of these sortes, others in all. In Babilon (as they say) graffing onely the lease set comes to be a træ: Ark I will speake of Graffing, and then of the rest. There are that appoint but three kinds Three of Graffing, betwirt the barke and the some, in the stocke, and kindes of implastring, or inoculation. The first sort they call Graffing, the Graffing. second imbranching, the third inoculation, or imbudding. Such What Træs as have thickest barkes, and draw most Sappe from the crees are ground, are best graffed betwirt the barke and the wood, as the best to bs Figge, the Cheric, and the Pline: those that have thin rindes, graffed beand content themselves with lesse moissure, as if the Sappe lea, twixt the wing the barke should gather it selfe to the heart, as the Orenge barke and the wood.

What trees a-

trie, the Apple trie, the Uine, and divers others, in thefe it is beat to open the Cocke, and graffe in the mode. Some Tras are also gree best best Graffed byon other some, the Figge that prospereth best bpon the Quibery Cocks, and the Plains tree: the Pulbery bpon the Chestnut, and the Beche, the Apple, the Peare, the Cime, and the white Poplar, wherein if you graffe, you hall have your Bulberies white : bpon the fame Kocke are graffed the Peare, the Quince, the Dedler, and the Scruille : the Peare bpon the To have Pomegranate, the Duince, the Bulberie, and the Almon. If pon red Peares Graffe pour Peare opon a Dalbery, you shall have red Peares:

A Peach with an Almond

in it.

& Apples, the Apple is Graffed opon all Peare Cockes, and Crab fets, Millow, and Poplar : being Braffed bpon the Quince,it bzing. eth forth the fruit which the Grækes call Melimella: it is also Graffed bpon the Plomtre, but being Graffed bpon the Plaine træ, it bringeth forth red Apples. The Dedlar being Graffed bpon the Thome, the Graffe groweth to great bigneffe, but the Nocke continues small : bpon the Pine-tree, it bringeth a fwet fruit, but not laffing. The Peach graffed in the Thorne, or the Beche, groweth to be very faire, and great : the Almond and the Peach being topned tagether, and Graffed in the Plums trie, will beare a Peach with an Almond in the Kone. The File bert will onely be graffed in the Wilding, not agricing with any other. The Pomegranate delighteth in divers Cockes, as in the Willow, the Bay, the Albe, the Damson, the Plome, and the Almond, byon all which hee prospereth well. The Damson groweth very well byon any kinde of wilde Peare, Duince, and Apple : the Chestnut liketh well the Walnut, and the Bech. The Cherrie refuseth not the companie of the Peach, nor the Turpentine, noz they his : the Quince will well be graffed bpon the Barberie: the Dirtle boon the Sallow : the Plom boon the Damion: the Almond opon the Filbert : the Citron, because of his tender Tree, and thinnerinde, will scarcely beare any other graffe, and therefore contents himselfe with his owne braunch. The Uine that is graffed bpon the Therie tree (Florentinus promiseth) will beare Grapes, and graffed boon the Dline, will being forth a fruit that bearing the name of both his parents, is ealled Elxostaphilos. In fine, all young Très that have sap in the barke may be Graffed; if it be greater, it is best Graffing nære

Oliue grape,

the rote, where both the barke and the wood, by the reason of the næreneste of the ground are full of sappe. We then that will graft either in the Rocke, or betwirt the Aocke and the rinde, let him gather his Graffts from a fruitfull tenber tre, and full of ioynts, and out of the new fpring, ercept he meane to Braffe an old trie, The choise When as, the Aurdier Braffes be, the better they are, otherwife of Grafthe last thotes of such tres as have lately borne will be the best. fing. Pou must gather them on that five the tree that lyeth byon the Porth : others like better the Catt fide then the Chadowy. Virgill forbiodeth those that groweth on the top, thinking them bets ter that growes out of the lide. To be thoat, your Gaffes must be full of buds, lately growne out, smothe, the rinde smothe god, and readie to grow they must be of the last pieres growth, which is knowne by the knots or toputs, that declare every pieres The knots growth. Belide, Braffes of all trees are not to be gathered alike : For Wines and Figge trees are dipelin the middle parts, and take beft of the top, and therefore from thence you must gather your Graffes. Dlines are fullest of sappe in the miost, and the outer parts dipett. Those best agree together, whose rindes are nerelt of nature, and doe blostome, and beare both about a time. Pou must gather your Graffes in the wane of the Mone, tenne dayes befoze you Baffe them. Constantine addeth this reason, That it is neede the Giaffe poe a little wither, that he may the better be received of the Mocke. You must appoput your Graffing The time time in the Spring, from Barch, when as the buds doe begin to for Grafburgen, but not come out (although you map Braffe the Peare fing. when his leaves be out) butill Day: for Graffing in raine is pro-Atable, but not for imbranching. The Dline, whole springs doe longest but, and have much sappe bnder the barke, the abundance whereof doth hurt the Braffe, muft be Braffed (as Florentine fayth) from Pay, till June. Columella would have the Dline Braffed from the twelfth of Parch, till the firtt, or the firt of A. The manpaill, and the time of Graffing to be the Hone encreasing, in the ner of afternone, when there bloweth no Southwinde. When you Graffing, have found a god Giaffe, take your unite (being very tharpe) and pare it about a their fingers from the topnt downeward, fo much as Mall be mete to be let in the Mocke: that part that is buder the fount (not perithing the pith) you must cut with your knife, as.

as if you hould make a pen, so as the wood with the wood and the barke with the barke, may toyne together, as inft as may be-Which being done, if you meane to graffe in the flock, you must first Sawe it smoth, and then cleave it in the midit with a sharpe knife, about their fingers: and to the end you may handfomely put in your Graffe, you must have a little wedge of wood or Iron, (Plinic thinks it better of bone) which wedge (when you will graffe betweene the rinde and the Rocke muft be made flatte on the one live, and round on the other, and the Graffe mult be pas red also flat on that fide that must fland nert the woo, taking als maies god hede, that the pith be not periffed : the other part must onely have the rinde pulled off, which after you must let in the cleft, or betwirt the barke, till you fee all parts agree together. Some doe cut the poput of their Graffe thriefquare, fo as two fides are bare, and the other covered with his barke : and in that fort thep ble to Wraffe in a focke one against another : but it is thought best to Waffe no moze but one. When pou haue thus fet in your Braffe in the focke, plucke out the wedge : but hera is a great carefulnesse, and hede to be bled : and therefoze god Beafters, thinke it belt to hold the Beaffe euen with both hands. lest in the binding and pulling out of the wedge, the Braffe be hurt, or fand bneuen. For anophing of which, some ble for to binds the focke about, and after to put the wedge, the bands kees ing it from opening to wide. The harder they be fet in, the lonaer will they be ere they beare, but will indure the better : pour must take heede therefoze, that the cleft be not to flacke noz to Araight. When you have thus Graffed, binde the Aocke with a twig, and couer it with loame, well tempeco with chaffe, two fingers thicknesse, and (putting mosse round about it) treit by to, that there come no raine at it, not be burt with the Sunne of the winde. This is the order both in the old time, and at this day bled: though in Columellas time (as it apeareth) they were not wont to Graffe, but onely betwirt the barke and the wood: for the old people (as Plinic Wafteth) duritnot as yet meddle with cleaving of the Cocke: at length they presumed to make holes, and Graffe in the pith, and so at last wared bold to cleane the Hocke. Cato would have the Mocke covered with clay and chalke, mingled with fand and Ore-dung, and so made in morter. Some timig

one it to make a little Trie spread in breadth. It is best Graffing next the ground, if the knots and the stocke will suffer: and Plinic would have the Graffe grow forth not above sire singers. If you will Graffe a little Trie, cut it neere the ground, so as it be a some and a halfe high. If you would carry your Graffs sarre, they To keepe will longest kiepe their sappe, if they be thrust into the rote of a your Graffes. Rape: and that they will be preserved, if they lye betwirt two little guts, running out of some River or Fish pond, and be well covered with earth.

THE A. I doe now greatly befire to heave you say somes Of Implating of Implation, or Inoculation, that is, in Graffing with stering and the bud or the lease, which you call in Grake empudies mor, which tron. kinde of Graffing, I see those that are given to new fashions des

light much in.

MARIVS. This is no new manner of Graffing, but wee finde that it was vied both of the Latines, and of the Greekes, when taking off a leafe of little bud, with some part of the rinde with him, we Graffe it into another braunch, from which we have taken as much barke. This order (Columclia faith) the hulbands in his vaics were wont to call Implatting, or Inoculation: and before Columellas daies, Theophrastus in his Boke De caulis Plantarum, both their the reason of Inoculation. Plinic both fay it was first learned of Dawes, hiding of fieds in caues and holes of Wrees. This kinde of Graffing, as Columella both write, and our Baroners themselues confelle, is best to be bled in Summer, about the twelfth of June: pet Didymus faith, he hath Baaf. fed in this maner, and hath had god encrease with it in the spring time. And fith it is the vaintiest kinde of Braffing, it is not to be bled in all Træs, but onely in such as have a strong, a morst, and a lappy rinde, as the Dline the Beach and the Figge, which are full of milke, and have a big barke. De that Træ that you meane to Braffe, chose the poungest and the fairest branches you can, and in them take the bud that is likelieff to grow, and marke it round about two inches fquare, foas the but Kand even in the miote, and then with a tharpe knife cut it round about, and Lalv of therinde, taking god hede you hurt not the bud, and take out the piece. Afterwards, goe to the Trie that you meane to Graffe on,

and those likewise the fairest braunch, and pare away the rind a little space, and some in your budde so inst, as the rindes map as gree together fo close, as neither water noz winde may enter in. Pou must looke that you hurt not the Wood, and that the rindes. be of one thickeneffe. Wihen you have this done, binde it bu, fo as you hart not the bud: Then clap it oner all, leaving libertie enough for the bud. Out off all the fpring that growes about it, that there be nothing left to draw away the Sappe, but that it map onely ferne the Graffe: After one and twentie bayes, but loofe it, and take off your covering, and you hall fix your bud ins corporated in the branch of a ftrange tree. Columella speaketh of an other fort of Graffing, to boze a hole in a Tree with an Aus gur, either to the pithe, oz the bttermoff rinde, going something Noapewife downeward, and getting out all the chips cleane, take a Uline, or an arme of the best Uline, not cut from his olde mother. and paring away the over rinde, thrust it fast into the hole being all moit and full of Sappe, leaning a bud or two onely byon it: afterward, Koppe the hole well with Hoffe and Clay, and commit it to the earth. In this fort may you Graffe Wines bpon Glmes, to thall the branch live, being both nourithed by his olde mother, and his new Father. Two piere after, you thall cut off the new graffed branch, and the fische wherein you graffed, you shall saive off a little about the bozing, so thall the graffe become the chiefel part of the plant. The like do our Countrymen, taking a branch of a Bech a fote thicke: and when they have cut it, and bozed it, they fet in it the branches of the best Deare or Apple that they can get, fetting the same in a very wet ground in March, and in the same Poneth the piere after, taking by the Bech, they cut it a funder with a faw betwirt the holes and the branches: and co nery piece of Mocke with his branch, they let in very rich & fruits full ground. There are some that beag of another kind of graffing, not much bulike to the former, whereof not with Canding, African in Constantine maketh mention, as tried in a Beach. They will a man to take the branch of a Talilow as big as your arme, and two Cubits in length, 02 moze: this they would have you to boze through the mids, and after flipping off the braunches of a Beach manner of as he Kands, leaving onely the top butouched, they would have

that

Wimble Graffing.

Graffing. you to make the Deach passe through the Willow batte, and

that bone, to bow the Willow like a Bowe, letting both his ends into the earth, and fo to binde the hole bp with moffe, mozfer and bands. The piece after, when as the head of the Beach; hath topned himselfe with the pith of the Willow, that both the bodies are become one. Don Gall cut the Trebeneath, and remone it, and raise by the earth, so as ponconer the Willow both with the top of the Deach; and this thall bring you Deaches with out fromes. This kinde of Graffing muft be done in mopff plas ces; anothe Willowes muft be holpen with often watrings, that the nature of the Tree map be of force. The kindes and manners Propagatiof propagation, are declared by Plinic, toho telleth of two kindes : on, and his the first, wherein a branch of the Tree being bowed bowne, and kindneste. buried in a little furrow, and after two yeares cut off, and the plant in the third vere removed: which if you intend to carry any far bistance off, it is best for you to burie pour branches in Baskets, or earthen beliels, in which you may aptiped earry them. And another more delicater way he speaketh of, which is to get the rote out of the very Tree, laying the branches in Bashets of earth, and by that meanes, obtaining rotes betwirt the bery fruit and the tops, (for by this meanes the rote is fetched from the bery top, fo farre they prefume) and from thence fetch them, bling it as before: in which fort you may also beale with Kofs. marie and Sauine. Columella theweth a way, how flippes of all manner of Trasmay be Graffed in what Traspoulift.

THE A. And some are also set of the sippes, or simings: my selfe have plucked a branch from a Pulberie Træ, and bruising the end a little with a Pallet, have set it in the ground, and it hath growne to be a faire Træ. The like hath bæne tryed (as

thep fap) in Applesand Beares.

Marios. Poulay well, for Pature both theweous, that they young fiences, plucked from the twees of the trees will grow: the youngest are best to be planted, and so to be pulled by as they may bring with them some part of their methers bodie. In this fort you may plant Pomegranates, Filberts, Apples, Scruisses, Wedlars, Plemes, Figges, but specially Uines, and sometimes Therries, and Opystilles. Of the stocke and the branches are also planted the Almond, the Peare, the Pulberie, the Orenge, the Oline, the Duince, the Juie, and the Turkish Planter

which

which the oftner you remove them the better they prove. Plinie fayth, the branches cut from the Træ, were at the first onely vice for Pedges, Cloer, Duinches, and Briers medled together, as terwards for vie, as the Poplar, the Alder, and the Willow, at this day wee let them where we best like. Væde must be taken, that the stockes, or the lets be of a god kinde, not croked, knottie, nor forked, nor slenderer then that a man may well gripe with his hand, nor lesse then a fore in length.

THRA. It remaineth now, that you speake of the letting

of the fruit oz kernell.

MARIVS. Pature (as Plinic fayth) hath taught be to fet the Bernell, by the liedes denoured of Birds, and mouftened with the warmth of their enthrales, and after boided in the boughes and rifes of Tres: whereby wie finde many times a Plains Wree growing out of a Bape, a Bap out of a Cherry, and a Therry out of a Willow. Bany Tres are let of the fruit hers nell, 02 Cone, which grow parely of themselves, by reason of the falling of the fruit : as Chestnuts, Halelnuts, and Watenuts. Columella fayth, they are the fruitfuller Tres that fpring of their fruite, then those that are set of the Rocke, or the branch. Dome belight to be let in Tres, and not in the ground: when they have no lople of their ofone, they live in a Aranger. Df the fruit oz kernell, are planted Puts, Almonds, Biffaces, Cheff. nuts, Damfons, Plums, Pincapples, Dates, Cypzelle, Bayes, Apples, Peares, Maples, Firtres, Cherries, Beaches, and Abels cocks : but let or planted, they proue to be the kindlier. Some of thefe doe grow in Braffing and other waies : for experience teas theth, that the Aut and the Terebinth are Braffed; and Demageron witnesseth as much: neither are all fruits, kernels, and Rones fet in like foat, as hereafter hall be fiene. Some are lapo in water before, others not: some lye three dayes in hony and water, and at the fall of the leafe are buried in the ground till Parch : and then let puts are onely layd in mople dung a day before, and of some in water and hony onely a night, left the harpnesse of the hony destroy the sprout. Some are set with their toppes Canding beward, as the Checknut: others downce ward, as the Almond, though this is not greatly to be regarped, fithe wie fie the fruite that falles from the Trie, or is

The keeping of plants.

not

let fall by Birdes, doth prosper best of any other.

THRA. I have a wonderfull delight in the Impe Barbens

of thefe Countries, I pray you tell me how they be erdered.

MARIVS. The exdering of an Ampe Garden may not be Of Impe passed ouer, wherein as in a Parke, the young Plants are nouri Gardens. med. And because the Purse sometimes aught to be kinder, and tenderer then the Mother, a mete ground muft be chosen for the purpole: that is, a ground daie, fat, and well laboured with the Dattocke, wherein the ftranger may be well cherificd, and bery like unto the foile, into which you meane to remove them. The kernels, or Cones, mult not be altogether naked, but little coues red with some part of the fruit, so that they afterward endure the longer. They muft be fet a fote, or there abouts a funder: After two pieces they must be removed : and because their Kotes doe runne very depe into the ground, they mud be somewhat bent, of turned in, to the end they may fpread abroad, and not runne bowneward. Aboue all things, you must fee it be free from Stones and rubbill, well fenced against Poultrie, and not full of chinkes or clefts, that the Sunne burns not the tender rotes: they must be fet a fote and a halfe a funder, that they hurt not one the other with their niere growing. Among other enils, they will be full of Mozmes, and therefore must be well raked and waded : belide, growing ranke, they must be trimined and proyned. Cato would have them coursed over with Lattules byon forkes, to let in the Sume, and to keepe out the colde: Thus are the kernels of Peares, Dine apples, Buts, Typzelle, and fuch others cherified. They must be gently watred for the first thee dayes, at the going boline of the Sunne, that they equally receiving the water, may open the foner. Zizipha, or Turkey Plumbs, Puttes, Wills nuts, and Cheffnuts, Bayes, Cheries, Diffaces, Apples, Dates, Peares, Maples, Firres, Plumbs, and divers others, are fet of the ftone, or kernels. In removing of them, have speciall regard, that they be fet in the like foile, og in better, not from bot and forward grounds, into colde and backward, nor contrarie from these to the other. Pou must make your Furrowes so long before, if you can, that they be over-growne with god moule, Mago would have them made a piere before, that they may be well feafoned with the Sunne, and the weather : De if you can-

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not fo, you mult kindle fires in the middeft of them two moneths afoze, and not to set them, but after a showze. The depth of their fetting muft be in Ciffe clay og hard ground, their Cubites : and for Plumb Tres a handfull more. The Furrow must be made Furnace like, Araight abone, and broade in the bottome : and in blacke mould, two Cubites and a hand broade, being square comered, never deeper than tivo fote and a halfe, nor broader then two fote broade, nor never of leffe depth, then a fote and a halfe, Which in a wet ground will draw niere the water. Such as des light in the depth of the ground, are to be let the deeper, as the Alhe, and the Dline : these and such like, must be set foure fote deepe, the others it lufficeth if they fand their fote ciepe. Some vie to fet under their Rotes round little fones, both to containe, and connay away the water: others lay granell buderneath them. The greater Tres are to be fet toward the Porth and the West, the smaller toward the South and the Gatt. Some will have no Tre removed buder two yere olde, og aboue thee: and others when they be of a years growth. Caro relifteth Virgils authoritie, that it is to great purpole to marke the fand, ing of the Tree, as it greweat the first, and to place it towards the same quarters of the heaven againe. Dthers observe the cow tracie in the Wine, and the Figge Tree, being of opinion that the leaves Mall thereby be the thicker, and better defend the fruit, and not so some fall : belide, the Finge Tre will be the better to be climbed byon. Dozeover, you must beware that by long tarping, the Mostes be not withcred, nor the winde in the Porth when re remove them, twhereby many times they die, the husband not knowing the cause. Caro condemneth betterly all manner of windes or frozmes, in the remoning of Trees, and therefore it is to great goed purpose to take them by with the earth about them, and to couer the Rootes with a Turffe, and for this cause Caro would have them to be earried in Bashets file led with earth by to the toppe : the Arce must so be set, as it may frand in the middeft of the Trench, and fo great hiede must be taken of the Rootes, that they may not be broken, noz mangled.

THRA. Let be now goe forward with energ Trie in his order.

MARIVS. Among all Tres and Plants, the Mine by good The Vinc. right chalengeth the Soueraignetie, fæing there is no plant vled in husbandzie moze fruitfull and moze commodious then it, not alonely for the beautifulnette, and goodinette of the fruit, but als fo for the eatincite he hath in growing, whereby he refuseth not almost any kinde of Countrey in the whole world, except such as are to extreamely fcosched with the burning heate of the Sunne, or cife to extreamely frozen with the behement colde, profpering alfo as well in the plaine and champion Countrep, as it both by on the hilly and Mountaine Countrep: Likewife as well in the Aiffe and fall ground, as in the foft and mellow ground: And of tentimes in the Loamie and leane-ground as in the fat and fogs gie, and in the daie, as in the moist and micie, yea, and in many places, in the very Rockes it groweth most aboundantly and most fruitfuily, as is to be fæne and proued at this day about the Kiver of Khins in Germanie, and the River of Mofell in France: and aboue all this, it best abideth and beareth the contravie disposition of the heavens.

THRA. Po boubt it is the most excellent Plant : But whom doe you suppose to be the first Authour of the planting of it: The common fort doe attribute the first invention of it to

Bacchus.

MARIVS. We that are taught by Gods holy word, doe Theinknow that it was first found out by the Patriarke Noah, immedianchion ately after the decioning of the world: It may be, the Time was vine. before that time, though the planting and the vie thereof was not then knowne. The Beathen both most fally and very fond, ly, as in many other things, doe give the invention of the fame unto the God Bacchus. But Noah lined many pieres befoze eta ther Bacchus, Saturnus, 02 Vranius were boane.

THRA. It is most likely fo : But I would faine know Anhether the planting of Wines doth more enrich the hulvand then

other hulbandzies doe.

MARIVS. About this question there is no little adde among the Watters of old, where there are some that preferre Graffing, Tilling, and Modfales farre about the Uines: and yet againe there wants not great and learned men, that affirme the Uine to be most gamefull: and declareth that olde fruitfulnesse of the Times, 11 2

The Vine. Mines, mentioned by Cato, Varro, and Columella, which boon yard most enery Acre verloed frauen hundred Gallonds of Wine, and the gainefull. Mineparos of Seneca, wherein he had pierely boon one Acre 1000, Wallonds : When as in Corne ground, Patture, or Wood land, if a man doe get boon one Acre pr. s. a pare, it is thought a great matter.

Cornfields pared.

THRA: But the Mine alketh great charges, and great tras and Vine- uaile about it, and it is subject to many milhaps, as the colde yards com- Froits of Winter, the blattes and burning of Summer : and from the first appearing, till the third of Map (which is the last occretopie day of the Time) the hurt of the colde and Frost is feared. Withen it hath scaped this danger, then commeth a greater mis thicke, which lightly every pere both great harme; for either with blattes in the Dogge daies, or for lacke of raine, the Grapes are withered and spailed, or else with oner-much raine they ware fowze, and not ripe. Sondzy other milhaps there happen, that the Aine is subject to.

> MARIVS. I graunt: lo is pour Come likewife, foz bothit afacth great charges, and fuch casualties oft-times bedooth the pore Hulbandman. For in all kinde of Hulbandep, if there be not great diligence, and good skill implosed, there will be but small commoditic reaped. And especially the Wine requireth great but banday about it, for it is tender, and fome harmed, and therefore in thoise of the Minepard, there must be god heere, a both the nature of the Country, and the disposition of the heavens to well confivered. Woll men plant their Times without any great care, oz hede of them: and when they grow by, ble little diligence in the trimming of them, by which negligence, many times they wither before they be rive. Others againe thinke it makes no great mate ter, what ground they bestow about it, and most times lay out for this purpose, the world ground they have, as though it would scrue for this Plant that will ferne for no other thing. Some againe reape all the commodity they can the first years, not proutoing for farther time, and fo complaine that their gaines both neither and Opere their trausite, nor their charges, whereas inoxoe their owne folly and negligence is the cause : for if there be diligence & paincs bestoined been it, as Columella proneth by many reasons, there is no hulbandey lo profitable, as the planting of Wines.

THEA. I doe not denie but that there is great profit in it, where the ground is more for Ames, and not so fit for Come: otherwise I thinke the sowing of Come to be an easier matter,

and specier way to enrich the husbandman.

Marivs. Surely as touching the easinesse of the husband die, and the greatnesse of the gaine, the olde writers have ever preferred the Ainepard afore the Torne sied: for as Columella reporteth, Siserna writeth, that the labour of one man is sufficient for eight acres of Aines, or at the least for seaven: of the increase have spoken before.

THE A. Warry fir, at this day one man thinkes this Acres to much for him: but not to trouble your talke, I pray you goe

forward with the hulbanday of your Mines.

MARIVS. The ordering of the Mine-bearing-Mines, as the forts of Mines are fundry, neither can they be contained in certains numbers, for there is as many forts, as there is of ground. Homer gineth the chiefest prayle to the Wine of Maronia, and Pramnium. Virgill moft commendeth Rhenith wine: others the wine of Aminia, Lamentana, Candy, and Corlega, but I meane to speake of those that are commonly in our dayes. In Italy at this day they make most account of wine of Corfega, Romani, and Meylina. In Spaine the belt eftemethe wine of S. Martine, of Ribodari, and Giberalter. In France the greatest praile is giuen to the wine of Orleans, Aniuo, and Greues: Bermanie began but of late to meddle with planting of Times, for Varro writeth, that the Frenchmen and Germancs had in his time both Wines and Dlives : but at this dig the Rhine, the Necker, the Mene, Molel, and Danaw, may compare with any Countries, for goodneile of their Uines.

THRA. I fix that the Uines are dinerly dreffed, otherwise in Italy, then in France, and otherwise in France then in Gere

many, every Countrey bling his feuerall fathion.

Marivs. True: for as Plinic, after Columella, teacheth, the Unine may be planted fine fundry wayes: for cyther his branches are suffered to runne in safetie byon the ground, or else without any stay groin byright, or having a stay or a prop set for them, they climbe by by it, or else runne by by a couple of stiffe props, called of Livic a yoke, or else sustained with source of those props, called of Livic a yoke, or else sustained with source of those woakes.

yoakes, which of the resemblance that they have with the hollow gutters of a house, are sayo to be guttered : others againe suffer red to runne bpon frames like Arbours, feruing to fit bnder, and are called Arbour Times: others runne by by the walles of hour fes. Pozeouer, the yoaked Wines, called in Brake Enifevullou. are tyed together, and to gned with three or foure props, as if they were yoaked : some doelet them runne bpon tres, as commonly in Lumbardy, they are suffered to climbe bpon Gimes, Will lowes, and Alhes, where they greatly profper: neyther doe they foes to the like all manner of trees, for they hate the Put tree, the Bay, the Ravilh, and the Toll : as againe, they loue the Poplar, the Elme, the Willow, the Fig, & the Dinetre. The Mines that are poar ked, or stayed up with props, receive more agre, and teare their fruit the higher, and ripe the better, but alke moze trouble in the loking to: and these are so ozdzed, that they may be plowed, whereby they are the moze fruitfull, because they may the oftner, and with the lette charge be tilled. The Mines that croep bponthe ground, make much Wine, but not (as Columella faith) fo god.

THRA. Pow to pour ordring of them.

MARIVS. First, 3 will speake of the ground, and of the dig. ging of it and after of the planting and cutting of them. And first The order you must take for a speciall note, that every Uline will not agric with enery place, not pield his Wine in like gooneste, of fuch force is the qualitie of the apre, neyther will all kinde ofground ferue: For Columella both counfaile to fet the Mine in a wilde ground is ground, rather then where Coane of bulhes have growne: for as for old Uineyards, it is most certaine, they are the worst places of all other to let new in , because the ground is matted, and as it mere netted with the remaines of the old rotes: nepther hathit loft the poylon of the rotten and clo Ainching Motes, where with the foile (glutted as it were with benime) is benummed : and therefore the wilde and untilled ground is chiefely to be chosen, which though it be over-growne with thrubbes and trees, may pet cafilp be riode. If fuch wilde ground benot to be had, the beftis the plaine champion land without tres: if neither such a ground, then the light and thinne builte ground, oz Dime ground. The last and worst (as I sayd) is the o'd rotten Timeyard, which if necellitie compell you to take, you must first rid the ground of all the

Trees which be Vine.

ring of Vines.

What best for the Vine. the olde rotten rotes, and then cover it epther with olde dung, or with the newest of any other kinde of mannaring: the rotes being thus digged up, must be layd up together, and burned. After must the ground be considered, whether it be mellow and gentic: It is thought to be god, that is something greate and gravelly, and full of small peubles, so that it be mingled with satte mould withall, which if it be not, is utterly disalowed.

Dame Ceres ioyes in heavy ground, and Bacchus in the light.

Pou thall perceive it to be massie and thicke, if being digged, and cast into the hole againe, it riseth over: if it scarsely fill the hole, it is a signe that it is light and thinne. The Flint, by the generall consent of Pushandmen, is counted a friend to the Uine, specially where it is well covered with god mould: for being cold and a kieper of mousture, it suffereth not the rotes to be scauled bed with the heate of Summer: so much, that Columella doil will men to lay certaine stones about the sides of the Uine tries, so that they excede not the weight of sive pound a piece: which as Virgill hath noted, kiepes away the water in Ulinter, and the heate in Summer.

Hurle in the thirstie stone, or therein throw the nastie shelles.

So do we le the banks of the Rhine being full of thefe Conce. to perio an excellent good Waine : but the Cones that lye about ground, are to be caft away : foz in the Summer, being heated with the Sunne, they burne the Uine, and in the Winter they burt them with their colonelle, contrarie to those that lye in the bottome. But the belt of all is the fote of an hill, which receis ueth the falling mould from the toppes, or the bally, that with suerflowing of Rivers hath bene maderich. Peyther is Chalo kie ground to be refuled, though the Chalke of it felfe that Pot. ters ble, is hurtfull to the Time. The hungry landy ground, the falt, bitter, and thirffie ground, is not mete for the Uline : pet the blacke and reddith fande, medled with some mout earth, is of some allowed well enough. Porcouer, neither ground to hotte, or to colde, to dry, nor to mouth, to flender, nor to fiffe, that will not luffer the raine to finke, as morte is to be vico for Mines, for it will casily gape and open, whereby the Sunne comming in at the craineffes, doeth burne the Motes: Mhat

That againe which is overthinne, letting in as it were, by bents

the Kaine, the Sunne, and the Winde, ooth dzie bp the mouffure of the rotes: the thicke and Aiffe ground is hardly to be laboured, the fat ground subicat to to much rankenesse, the leane ground to barrennelle: wherefore there must be an euen temperature amongst these extreamities, as is required in our bodies, whose health is preferued by the equali medley of heate and colde, bryth and mouffure, fuineffe and emptineffe, or thickeneffe and thins nes:neither petis this temperature in ground for Wines fo inftly to be evened, but that there is required a moze enclining to the one part, as that the earth be moze bot then coloe, moze dape then mort, more subtill then groffe, specially if the fate of the Beauens agric: againe, what quarter thereof the Uinevard ought to lye, it is an olde controuerfie, some like best the rising of the quarter of Sume, some the Wett, some the Dorth : Virgill militeth the theheaven West: others againe thinke the best lying to be boon the South. Wut in generall it is thought best in colde Countries, to have it must lie alye toward the South, in warme Countries byon the Call, in hot burning Countries, as Egypt & Barbarie, bpon the Porth. Plinic would have the Time himselfe stand towards the Porth, and his spring, or hotes towards the South. A fit ground, and well ly ing, being found out, must be diligently digged, dounged, and wes Ded: all buprofitable wieds must be pulled by, and throwen away, lest they should spring againe, and either corrupt the young plants, or hinder the laborer.

THE A. Before you come to trenching, I would gladly heare in what fort you plant your Uine, and what feafon is fittelf

ting of Vincs.

What

the Vine

gainst.

MARIVS. I will first speake of the season, and afterwards The time of the planting. The Uine is planted according to Virgils rule, in the fall of the leafe, but better in the Spaing, if the weather be raynie, or coide, or the ground befat, champion, or a watriff valley: and best in the fall of the leafe, if the weather be daye and warme, the ground date and light, a barren, or a rugged hill. The time of planting, in the Spring (as Columella fayth) ene dureth fortie dayes, from the Joes of February, butill the Aquino Cial and in the fall of the leafe, from the Joes of Daber, to the Balends of December, Cassian in Constantine, being taught by erperienera

experience, faith, in watrie grounds you thould rather plant in Autumne, when the leaves are falue, and the plants after the Ilines. tage velimered of the burthen of their clufters, found and ftrong, before they be nipped with the frosts, for then they best agree with the ground, nature applying her felfe wholly to the nourithing of the rote. The time of graffing Columella faith, is of some extended from the first of Pouember, to the first of June, till which Graffing time the Chote of graffe may be preferred : but it is not well liked of Vines. of him, who rather would have it to be done in warmer weather, when the Winter is past, when both bud and rinde is naturally moned, and it lafe from cold, that might amog either the Graffe, or the Stocke : pet he granteth (when haft requireth) it may be Done in the fall of the leafe, when as the temperature of the agre, is not much bulike to the Spring: for which purpose, you must chose a warme day, and no winde firring. The Graffe mult be round and found, not full of pith, but of buds, and thicke of iopnts, VVhat the Tenant whereof mult not ercieve theinches, and smoth, and Graffes even cutte: the Nocke and the cleft must be well closed with clay to be choand motte. Those that grow toward the South, must be marked, which Virgill obseruing, saith:

But on the barke, they also note the quarter of the skie,
The order how it stood, and grew, and where the South did lie.

The like is to be done with all other Trees. Of planting of Mines, there is two wayes, the one of the Rote, the other of the beanth, or spray: The Rote is counted agreat deale better then the branch or fet, by reason of the forwardnesse, and bantage that tt hath, in that it hath alreadie taken rote. The Rote is fet in Aiffe ground, well digged and laboured, in a trench of thee fote, the fet or fpray, in a gentle and mellow ground : in drie ground, it is neither goods let the Kote, nor the Branchina Day leason: it is best to plant in the fall of the leafe in a hot feafon, and in a colde and morth, in the Spring: in much wet you mufffet them thinner, in great drieth, thicker: in what fort pou Mali make a ffore Garden for Mines Palladius teacheth you. The fet requireth a time to rote, and being remoned will beare the better fruit. The rostes doe beare fruit the second piere, or sooner: the Sets, or Branches, scarle in the third or fourth yeare, though in some places somer. Didymus -

Didymus in Constantine teacheth an easte and a reacte way of planting the Duicklet, which is, to take of a frong and ten piere Mine, the longest and fairest branch, that groweth lowest, a fote from the ground, and laving it long in a Trench of a fote Depth, to couer it with earth the space of foure soynts, so that remaine in the top, ercede not two or three topnts: and if the branch be fo long, as it will ferue for two burnings, you may make thereof two rotes. Don mult not luffer two rotes to runne by bpon one May, but allow euery rote his supporter. The Branches, or Set that poumcane to plant, pou mult cut from a very fruitfull and flourishing Tine, that hath borne ripe and perfect god fruit, full of formts, and not any waves tainted, but whole and found. Df fuch you must chose your Sets, and not of young Times, that are weake and fæble, but fuch as are in their chiefe fate. Dozeoucr, you muft gather your Set, not of the highest, noz the lowest, but from the middelt of the Uline: the Set muft be round, finoth, full of knots and toynts, and many little burgeons. Allone as you have cut it off, loke that you let it : for better both it agree with the ground, and foner grow. If you are briven to kiepe them, burie them in the ground either lose, or losely bound : and if the time be long that you meane to keepe them, you must lay them in emptie barrels, Arawing earth bnber them, and bpon them, that the earth may lie round about them: and the barrell you must Rop closely with clay, that there enter neither winde noz aire, fo hall you preferue them two moneths in their gooneffe. Such as are over orie, you must lay them in water foure and twentie houres afoze you let them, and you must fet two Sets together, that though the one faile, the other may take: and if they both grow, you may take by the letter of them: you must not make a medley of funday foats, specially white and blacke toger ther : but as Columella faith, muft fort them feuerally. Dou muft beware that the Sets have not put out their springs, and that pou set not a withered Set. Constantine would haue the Set fomething croked, affirming that it will the foner take rote. Pou must lay about them their or foure Cones, and then raise the earth, that it may equally with the dung be troden downe: for the Kones keepeth the earth firme, and as I faid before, coleth the Rote. Both the ends of the Set you must annoint with Dre Duna.

bung, for the killing of the wormes: as for the length if it be full -sib 10 of topats, it may be the Moster, if it have few topats, you must make it the longer, e pet not ercading a fot in length, noz a thafte man in theatnette, the one for being burnt with over beprette: in Sommer : the other, leaft being let to bepe, it be withgreat: hardnesse taken bp, but this is for the levell ground : for bpon hils, where the earth Mill falleth, you may have them a for and a hand breath in length. Florentine would not haue the trench leffe then foure fote in depth : for being fet fhallow, they foner becap, both for the want of fullenance, and great heat of the Sunne, which is thought to pierce foure fote into the ground: The though some there bee that thinke thee fote sufficient for the length of plant. The Trenches for Mines, Virgill would not have berpthe fets. Deepe: but dieper a great deale foz Tres. Such Aines as pou meane thall runne bpon tres, you must plant the cubits distant from the Trie : afterwards, when they be well growen, and nied to bee formed with the Tree (which you hall perceine by his thickenes) you shall lay it downe in length, & burie it, till it come within a fot of the Erie, luffering the remaine to goe at liber. tie, nipping off all the bubs with your naile, ercept one or two. that it may the better profper, which when it is growen by you must iopne by little and little to the Erix, that it may rest bpon it: which part of the Ere must be diligently proposed, and the fpzings and fciences that grow out of the rote, must according ontil sale to Florentinus, be cut cleane away. The trees, as much as map be, muft be forced to the Caft and Wift, and both the Tre and the Mine, must have the earth well digged, and bunged about them. In rich ground, pou may luffer the Tres to grobe in height, but in barren ground they must bee pulled at fear uen or epatt fot, leaft all the substance of the Carth be soaked by of the Trie. After your planting, you mult digge the ground The ordeenery Moneth, and wede it, specially from the first of March, ring of Vines aftill the first of Daober : euery thirtieth day you must digge ter their about the young plants, and plucke by the wiedes, specially planting. the graffe, which except it be cleane pluckt by and cast alway, though it be never to well covered, will spring againe, and so Of digburne the plants, as they will make them both foule and withe, ging and rea: the oftner you digge them, the more god you doe them, of Vines. Winers.

Of digging and dunging of Vines.

When the Ozave beginnes to alter, you must in hand with your third digging, and when it is rive, before none when it wareth hot, and after none when the heate decreafeth, you must bigge it, and raife the duft, which doing, befendeth the Grape both from the Somme and the Mite. According to Virgils minde, the Mine must be digged and weeted enery Doneth : some would have them digged all the Summer long, after every dealy : others as gaine will not have them digged as long as they bud or burgen. for hurting the fprings, faving, that it is enough to digge them thrife in the piece, from the entring of the Sunne into Arics, till the rifing of the featien Starres and the Dogge. Some againe would have it done from the Wintage before Winter, and from the Joes of Aprill before it take, and then againe before it flowre. and likewife before the burning houres of the day. In some play ces when they have digged them, they boe not Graight-maies co. ner them, but luffer the trenches to live open all the Minter: in wet and rapnie places they cover them foner, cloting by the rots with earth, and Kopping all the pallages of the water. Some make the trenches very depe, and some not passing a fote depe: and when they have done, they cover them aloft with Dre-bung. Sheepes dung, oz Hogges dung, ozofother Cattell : Pidgions dung is the hottelt, and fuch as caufeth the Wine faffelt to grow, but maketh the worfer Wine. The bung muft not be lapd clofe to the Uine, but a little diffant from it, whereby the rotes that spread abroad, may have some helpe of it, and the bung must not touch the rotes, for breaking of them: if there be no bung at hand, the Kalkes of Beanes and other Puife, will well ferne the turne, which both defendeth the Uine from frost and cold, and keepes them likewise from nopsome wormes: the kernels, and the Calkes of the Grapes, Doe likewife supplie the want of dung; but Piffe, the the best of all, is old stale Thine. The plants of a piere, or two best dung. pære old, and so forth, till fine pæres, must be discrætip digged, and bunged, according to their state : in sandy ground, the best dung is of Sheepe and Coates: and in fuch fort you must digge The order the ground, that the earth that lyeth highest, be cast to the bots of digging tome, and that which was at the bottome, be lapo aloft: so shall or firring that that was dry, by the moraure within, be helped, and that which was mort and kiffe by the heate aboue, be tweened. Pou

mult

. What dung is best for Vines.

VVhere the dung must be layde.

mast also sexthat there be no holes not pits in the Wineyard, but that it lie even. When you have thus digged it, and that the Mines have taken rote the first piere, the rotes that grow about must be cut away with a sharpe knife: for the Wine, if it be suffer red to rote every way, it hindereth the diepe downe growing of the rote. The Uines that are now of two yeares growth, toe must digge and trench about two foote depe, and the foote broad, according to the rule of Socion. De those Uines that climbe bpon Tres, you must likewise cut off the springs that runne as mong the rootes of the Tree, left the small rote tangling with the greater, be ftrangled: and therefore you must leave some little space betwirt the Uine and the Tree. Often digging causeth. great fruitfulneffe : good heed must be taken, that the plants be not hurt in the digging : also it must be digged befoze his flouris thing, or thooting out of his leaves: for as immediately therewithall he beginneth to thank out his fruit, so hee that diggeth after the comming foozth thereof, loseth much fruit with the biolent thaking, and therefore must digge the timelier. Cutting and decting of the rootes, you must begin in hand with at the Joes of Daober: so that they may be trimmed and dispatched afore Winter. After Winter bigge about the rootes that you Dreffing have dreffed: and before the Sunne enter the Equinochium, of Vines. levell the rootes that you have trimmed. After the Joes of Applil, raife op the earth about your Time : in Summer let the ground be oftentunes harrowed. After the Ides of Daober (as I have faid) befoze the colde come in, you must dresse the rootes of your Uines, which labour layeth open the Summer springs, which the good hulbandman cutteth away with his knife: for if pon luffer them to grow, the rotes that grow bowne will perift, and it happeneth that the rootes forcad all above, which will be Subject both to cold and heat : and therefore whatfoever is within a foot and a halfe, is to be cut off, but fo, as you hurt not the pains cipall. You must make this riddance of the rootes at every fall of the leafe, for the first five peres, till the Tine be full growen: after, you must delle them enery fourth piere : such Wines as are toyned with Tries, for the unhandsomnesse, cannot be thus handled. Clines and Trees, the Cooner their Rootes bee thus dreffed, the Aronger and weightier they will bee; but such as grow

grow bpon the fides of hils, must so be dreffed, as the opper rotes neare to the focke may fpread largely, and biderneath towards the foote of the hill the earth must be banked to keepe the mater and the mould the better. The old Tine mult not have his roots medled withall for withering, nor be plowed, for breaking of them, but the earth a little looked with a Dattocke, and when you have thus dreft the roote, lay cung about it. After this ridding of the rootes, then followeth propring, or cutting, whereby the whole Time is brought to one twigge, and that also cut within two formts of the earth: which cutting must not be in the formt. but betwirt the toynts, with a flope cut, for auciding the water: neither must the cut bee on that fide that the budde comes out of. but on the contrarie, left with his bledbing hee kill the budde. Columella appointeth two feafons for the cutting of Mines, the Ipzing, and the fall of the leafe, judging in colde Countries the cutting in the Spaing to be beft, and in hot Countries where the Winters be infide, the fall of the leafe: at which time both Tres and Plants, by the denine and enerlatting appointment of God. pield by their fruit and their leafe. Det mult not pour fets be to nearely cut, except they be very fæble: but the first pere they be fet they must be holpen with often digging, and pulling off the leaves monethly, while they beare, that they may grow the better. Phamphilus in Constantine, declareth the time of cutting, 02 prope ning, to begin in February, or Warch, from the fiftienth of Fee bauary till the twentieth of Warch: some (he saith) thought god to cut them immediately after the gathering of the Grapes, left by bleding in the spring they loose their suftenance: though bes ing cut in the fall of the leafe, it springeth the sooner in the spring, and if the colde of frost happen to come, it is spoyled. Therefore in colde Countries, it were better to progne it alittle, then to cut it throughly, that is, to luffer the principall springs and branches to grow. Againe, it is very necessary to cut them in the Spring: the cuts must be made with a very tharpe knife: that they may be fmooth, and that the water may not stand in them, to the engens dring of wormes, and corrupting of the Time: you must cut them round, so will the cut be sooner growen out againe : but Plinic would have them flope wife, for the better anopoing of the was ter. The branches that be broad, old, crooked, or wrethen, cut awaw.

away, and fet youg and better in their place. Don muft make an end of your cutting with as much spice as you may: from the Boes of December, till the Ives of January, pou muft not touch your Uines with a knife : for Columella witneffeth, that Times in winter may not be cut. In cutting, remember well to cut it betwirt two toynts, for if you cut it in the toynt, you spill it: let the cut be alwaies downeward, so thalitt be lafe both from Sume and weather. You must not cut them bery earely, but when the Sun hath drunke by the frost, or the deale, & warmed the branch: the fprings of the fets the first yere, must be cut with good discretion, noz suffered to grow too ranke, noz cut too neare, but making the olde fet to fuffer a fpring or tho to grow out. Pert buto cutting, followeth the propping, or supporting of the Propping Mine: and it is belt for the youg and tender Mine not to be flaged of Vines. by with any Arong May, but with some small thing at the first, and while it is your, it must be daintely tyed to the stay with final twigs of Willow, Elme, Brome, Ruthes, or Straw: this latter binding is thought to be best, for the twigs when they ware drie Doe pierce and hurt the rinde. There is an hearbe, which because of his aptnes for tring of Wines, the Sicillians call auwehoneousp. The best stayes for Mines, as Plinie faith, are made of Willow, Dhe, Mied, Juniper, Cypreffe and Cider. And in another place, hee preferreth the Chestnut for this purpose, about all the rest. The best for the Aine, is the Riebe, which well endureth fine percs. Belving of the leaues, & cutting the Aine, is almost in ons manner : the gelding of the leaues, og braunches, muft be done Gelding twice a yere, to the end that the superfluous springs & leaucs may or pluckbe plucked off. The ark (as Pliny luziteth) must be dons within ten leaves. Daics after the Joes of May, befoze the Aine begin to floinge: for about the tenth of June, both the Mine & the Wheat, the two nes ble fruits, do flower. Di the fecond time, the opinions are funder, for some suppose it best to plucke off the leaves & branches as some as it hath left flowing:others, when the fruit is full ripe. The fus peranous fprings being youge tender, are to be taken alvav, that the Uine map be moze at libertie, and through blowen with the winde. This gelding, or cutting alway the superfluous branches & leaues is as neoful as the propping: for both the fruit both profper the better a the propping the next yeare will be the hand sommer,

and

#### I helecond Booke, entreating

and the Mine will be the leffe full of galles: for that which is cut being greene and tender, both the fonce and the foundlier recover himselfe, and the Grape ripcth the better. Arn dates befoze the Cline beginnes to dowie, fix that you gelo it in this fort : Cut . off all the superfluous branches, both on the toppe, and on the flocs, but meddle not where the clufters grow, Arthe off the tops of the branches for growing to ranke : fuch Brages as grow to. wards the South, or the Welt, leave them their branches to be fend them from the heate of the Sunne: cut away most from the poung Tine, for ouer burdening him. After the heate of the Sunne beginneth to fade, away with the leaves, for hindring the Grapes of their riping: and while the Grape is a flowring buffe your felfe with digging about it. Such Mines, as with thicknes of their leaves corrupteth their fruit, are to be rid of their superfluous branches and leaues a Woneth before the gathering of your Grapes, that the winde may blow the better through them: but the leaves that grow aloft in the very top, mult not be med led with, but left as a defence, and Chadow against the heat of the Sunne : but if to be, the end of Summer be giuen to much raine, and that the Grapes (well in greatnesse, then hardly plucke off the leanes from the top alfo.

THRA. Pou have told be of a great deale of labour about .

Mines.

MARIVS. The Uine keeper muft often go about his Uines,

and fet bp his props, and make cuen his poakes.

THRA. Due thing I pray you, let me hearemore, the fignes and tokens of the ripenedle: for as I buderstand, we may not be to buse in gathering them to some, nor ble any lingring after

they be ripe, without great harme.

Marivs. Poulaytrue: for being gathered before they be ripe, they will make but small Whine, and not durable. And a gaine, if you suffer them to long, you shall not onely hurt the Wine with the over-long bearing of her burden, but also if hayle or frost happen to come, you put your Wine in great danger. Democritus writeth, that the Grape endureth in his ripenesse not about fire dayes, and therfore the sudgement of his ripenesse, is not alonely to be given by on the sight, but by on his taste, though Columcila thinketh there can be no certaine indgement

given of the taste. But if the Kones doe change their colour, and be no longer græne, but be almost blacke, it is a signe the Grape is ripe. Some againe do presse the Grape betwirt their singers, to it they sæ the Kone to slip out smooth, without any thing cleaning to it, they thinke them mæte to be gathered; but if they come out with some part of the Grape cleaning to them, they count them not to be ripe. Others prove them in this sort: Out of a very thicke cluster they take a Grape, and as they behold the cluster well, wherein they sæ no change, they take it sor a token of ripenesse. You must gather your Grapes, the Ponne being in Cancer, Leo, Libra, Scorpius, Capricorne, or Aquari, and binderneath the earth.

THRA. Is there no way to make the Grape ripe speedily?

MARIVS. Plinic teacheth, to rubbe ouer the Kotes with tart Uinegar, and very old Urine, and thus to be often digged, and covered.

THRA. What order have you for preserving of your Grapes

when they be gathered?

Marivs. Somekæpe them hanged by in the rose of chambers, and some in earthen pots, close concred with wooden befsels. Palladius theweth away how to kæpe them byon the Aine, till the Spring.

THRA. I pray you procede with the other fruit Tres of

pour Dechard.

MARIVS. Among other fruit træs nert buto the Wine (as The Olive Columella faith) the chiefe place is giuen to the Dline, in Latine Olea. Of all other Plants it requireth leaft trauaile and chars ges, where as the Mine requireth most: and though it beare not every pere, but every other pere, petis he to be borne with all, because he asketh neither coff noz labour : and if you bestow any byon him, he recompenseth it throughly, with the abundance of his fruite. And fince there is fo great profit and commoditie in this tree, and that the bles of it are so many, and so needefull. it is god reason to be diligent and carefull about it : he loueth a ground neither to high, noz to low, but rather the fide of a hill, fuch as is the most part of Italie and Spaine: for in fuch ground the extreame heate of the Sunne, is something mollified with the cold blatts of the winde: for in Dline tres (as Plinic faith) the fople and the clime is of great importance: it belighteth in

in a warme, and a drie agre; and therefore in Barbary, Sicil, Anda. lulia, funday parts of Italie, specially Campania, it prospereth wonderfully : it liketh not to greatheat, noz to much cole. And therefore in hot Countries, it ionneth bpon the Porth lide of the hilles, and in cold, bpon the South fide. It is thought, that if it. Rand aboue the cleoze miles from the Dea, that it cyther dycth. or prometh not fruitfull. The best ground is the granelly ground, having aloft a little chalke mingled with sand : it is also god ground where the fand or granell is medled with rich mould: yea, the fiffe ground, if it be rich and linely, both bery well agric with this tree. Chalkie ground is btterly to be refuled, and watry and marily ground worlt of all. The like is a barraine fand, and hungry fand : but you may fet it well in Come ground, where either the Milding or Mathelme hath growne : but betwirt the Dake and it there is great hatred, for if the Dake groweth nære, it flyeth away, and theinketh towards the earth: and though pou cut dolune the Dake, pet the very rotes poploneth and killeth the pore Ditie. The like some affirme of the Tres called Cerrus, and Esculus : for where they be pulled by, if you fet the Dline, he dieth : fo doth it (as Plinic faith) if it chaunce to be bauised of the Boate. Dn the other five, betwirt the Dline and the Aine there is great friendship and love : and it is faid, that if you graffe the Dline bpon the Aine, it will beare a fruit that thalbe halfe Grape, and halfe Dline, called Vuolea, an Olive-Grape. There are funday wayes of planting of Dlines : some take the biggett brane thes from the Trees, and Sawing off the poungeft plants of two cubits in length, they let them orderly in the ground: fome fettethe whole Trie together: foine againe cutting off the tops, and all the beanches, let the Rocke about the riling of the Starre Arcturus. Pany make them Impe Bardens in god ground and mellow, such as is commonly the blacke moulde: herein they fet the young branches the lowelf, and the faprell, two or three inches in thicknesse, and very fertill, which they gather not from the body of the Tree, but from the newell and latell boughes. Thefethepeut intopzetty Settes of a fote and a halfe in length, taking god beede that they burt not the riade, and paring the ends very smothe with a charpe Unife, and marking them with redde Dace, that they may know which way they food afore,

and to fetting the lowest part into the ground, and the highest tofuards the heaven, they put them in the ground, and so they grow the fafter, & beare the better: for if you hould fet them with the lower end byward, they would eyther hardly grow, or prome bufruitfull: and therefore they have a regard of the fetting of them. Dou must beside, befoze you fet them, rubbe ouer both the toppe and the fate with doing mingled with Albes, and to fet them diepe in the ground, concring them foure fingers thicke with rotten mould. You may chose whether you will sette them all bnder the ground, or let some part within the ground, and suffer the rest to appeare about the ground : those that besette all within the ground, niede not to be marked, but luch as Mall Cand with one part about the ground. Dydimus would have them fo fet as they may appeare foure fingers about the ground, and then to make a little trench for the receiving of the water: and this mans ner of planting with the boughs, is of Dydimus best liked. Where you mean to plant, you must purge the ground of all other plants, bushes and wedes: and the trenches must so be made, as with the winde, the funne and raine, it may be mellowed & made crome bling, that the plants may the somer take rote. If your butinette require hafte, you mult a moneth or two before, burne in the trenches either Micks or rede, or luch things as will ealile take fire : and this you must bo divers daics together. Pour trenches mult be thececubits, or thereabout in bepth, & 40. cubits alunder, Whereby the trees may have agre enough: the first (ccond, and the third piere, the earth must be trimmed with often raking : the first two peres you must not medale with propping: the third pere, pou muft leane bpon enery one a couple of branches, & often rake pour Impegarden: the fourth yeer, you that of the two beans thes cut away the weaker: being thus ordred, in the fift peer they will be met to be remoued : the focke that is as big as a mans arms, is best to be removed: let it stand but a little about the ground, fo that it profper the better. 15 efore you remoue it, marke the part that food South with a piece of Dker, that you may fet it in like maner againe. Bou muft firft big the trenchod ground with Battocks, after turne in Cone-plowed earth, a fow it with Barley: if there be any water franding in them, you must let it out, and cast in a few small Cones, and so letting your Settes, call 到 2

east in a little dung. After the tenth of June, when the ground gapes with the heate of the Sunne, you must take hiede that the Sunne pierce not through the clefts to the rote. From the en tring of the Sunne into Libra, you must riode the rotes of all superfluous springs : and if the Tre grow byon the edge of a hill, you must with little gutters draw away the muddy water. The dung must be cast on at the fall of the leafe, that being ming. led in Winter with the mould, it may keepe the rotes of the træs warme. The mother of Dyle must be polized bpon the great ones, and the most emust be cut off with an Iron Instrument, or else it will yeld you no truit. Also after certaine peres, you must cut and loppe your Dline tres : for it is an old preuerbe, That inho fo ploweth his Dline Garden, craueth fruit : who dangeth it, moweth fruit: who cutteth the tres, fozceth fruit. In the Dlive Tre you hall sometime haue one branch more gallant then his fellowes, which if you cut not away, you discourage all the rest. The Dline is also graffed in the wilde Dline, specially betwirt the rinde and the wood, and by implating: others graffe it in the rote, and when it hath taken, they pull by a parcell of the twte withall, and remone it as they doe other plants. Those Dlines that have the thickest barks, are graffed in the barke. The time of Braffing them, is from the entring of the Sunne into Aries, and with some from the rry of Day, till the first of June. The time of gathering of Dlives, is when the greater part of halfe the fruit wareth black, and in faire weather: the riper the Dlive is, the fats ter will be the Dyle. In gathering of Olives, there is moze cunning in making Dyle, then in making Wine: the letter Dlives ferue for Dple, the greater for meate. There is fundry forts of Dylemade of an Dline: the first of all is raiv, and pleasantest in talk: the Arlf Greame that comes from the presses belt, and so in ozder. The belt Dyle is about Venafri in Italie, & Licinia in Spaine: the next in godnesse, in Provence, except in the fruitfull parts of Barbary. The Dlives that you may come by with your hands, you must epther bpon the ground, oz with Laoders gather, and not beat them downe: for those that are beaten downe wither, and pield not so much Dyle as the other : and better is the Dline that is gathered with the bare hand, then with glones: there is an old law for Dlines, Bruise not the Olive, nor beate him. Those that paus

passe the reach of the hand, must be rather beaten downe with Redes then Powles: the Dyle is increased from the riling of the Berward, to the poi. of the kalends of Detober : after, the Rone and the meat doe grow. Df Dyle, some part ferueth for meat, and other for the folipling of the body: and therefore, as Varro faith, it accompanieth his mailter, not onely to the Bath, but also to the field, og wherefoeuer he goeth. The Dlive whereof you make pour Dyle, mutt be taken from the ground: and if it be foule, muft be walked : for the orging, them dayes is lufficient : if it be frofty . weather, they much be pressed the fourth day: sucry first heape must be put in earthen pots, and Dyle vestels, where with hard and rough flones they are grinded. The gathered Dline, if it lye to long in heapes, putrifieth by reason of heat, e makes busauery Dyle. Wils are more handlome for the making of Dyle, then the trough and the fote: for the Bils may be handled with great oilcretion: the whole floze may be rapled or let powne, according to the quantitie of the Berry, leaft the Kone which would marre the tatte of the Dpis thould be broken. The Preffes chiefely, and the Dyle houses ought to be warme, for the specier running of the Dyle, which with cold would make the longer stay. And fith beat and warmth is so needfall, you must provide that your house lpe toward the Sunne, fo hail von nede neither flame noz fire. lohich with imoke or lote, may corrupt the taft of your Dyle. The lawes and order of gathering, and bestowing of Dlive, hath Cato described: the manner of preserving them is declared by Columella, which were to much for me to weake at this time.

THRA. Goe on then, and let be heare what you can fay of Apple trees: whose ble is more commonly knowne buto be.

make that put this difference betwirt the Apple and the Putte, that whatsoever fruit is to be eaten soft without, and hard with in, is an Apple, and the contrarie a Putte. Pomum generally spoken, is to be understood of all that the Grickes comprehended in the word, Oword, as Peaches, Duinces, and Peares, where but the Lawyer agreeth: but in this place I speake of Apples, according to the common phrase as for Duinces, Pomegranates, and Turkie Plomes, I will speake of in their due places. There are such sundry sorts of Apples, differing both in shape and saudur,

as are scarcely to be numbred. In the olde time the chiefelt Ap. ples were Septians, bery great and round, Martians, Claudians, Matians, and Appians, fo called of their first founders : fome as gaine toke their names of their Countries, as Camerians, and Grecians: fo others of their colours, as red, fanguine, filken, and golden. We have at this day that are chiefe in paice the Bippen, the Komet, the Pomeroyall, the Parigolo, with a great number of others that were to long to speake of. There is but one mans ner of planting and graffing of them all, fauing that the Peach, the Lemon, the Applicat, the Quince, and the Cytron, which are all, of Dioleorides, accounted in the number of Apples, require a little more diligent care, as thall be faid hereafter, then the o. thers, for they are all both planted and graffed: the manner of an Impe Garden Caro describeth. Apple tres are fet either in Februarie, or in March: or if the Countrey be hot and dap, in Detober and Pouember. But all kindes of Apples doe better profper by graffing, and inoculation, or imbudding, as I faio bes foreabout Parch or Aprill, or what time to cuer the fap be in the rinde. They are also graffed by implattring, about the tenth of June : though some (as they say) have had good success in Doing it after the entrance of the Sunne into Aries, as I have faid bes fore, where I spake of implatiring and Graffing. The Apple is commonly Graffed upon the Crab Rocke, or bpon the Bramble, being first planted, and the piereafter cut off within a fote of the earth: bpon this frocke you may Braffe (as 3 faid) the tender poung Graffes of any Apples. Palladius faith, you may graffe the Apple vpon the Perrie, the Hainthorne, Plumb tre, Ser, uiffetræ, Peach, Plane træ, Poplar, Willow, and Peare: but in such difference of Countries, we can set downe no certaine of der for them all: and therefore as farre as mine of me experience, and the knowledge that I have learned of others will aretch, I will gladly thew you. There are that according to the olde or Der, doc Graffe the Apple either bpona wilde Berry, or bpona Duince, whereof they have a most excellent fruit, called of the olde Maiters Melimela. If pon Graffe bpon the Plane tre, you thall have a red fruit : you may also well Graffe your Apple by on the Damson tree, and if you Graffe byon the Cytron, you Mall have them beare, as Diophanes fatth, fruit almost all the porre

perclong. The Apple loueth a fat, and a good ground, well was tred rather by nature, then by industrie. In mountaine Countries, they must alwayes be set toward the South : it prospereth well enough, fo it be fomething holpen with the Sunne, neither Doe they refule either rough or marriff grounds. A leane and a barraine fople bringeth out wormereaten, and falling fruit: the noplome Wormes are destroyed with Bogges dung, mingled with mans beine, and powerd bpon the rotes. And if the træ Against be very full of Mozmes, being scraped bowne with a brasen scra, hurtfull per, they never come againe, if the place whence you scraped wormes. them . be rubbed oner with Bullocks bung : fome adde buto be rine Goates dung, and power bpon the rotes the Las of olds inine. The tree that is licke, or prospereth not, is holpen being watred with Affe dung, and water fire dapes: they must be of ten watered at the fetting of the Sunne, till the Spring be come out. Plinic writeth, that the water wherein Lupines hath beene fod powers byon the tree, both the fruit god. They fay, if the tre be much watred with brine, the fruit will be red. Dthers as paine fet under their Tres Roles, thinking thereby to have their Apples red. Apple Tres (as 3 faid befoze) muft be fet euerp fort by themselues, as Columella biodeth, least the small tres be burt of the great, because they be not all of one growth, or Arength. Beffde, you muft let them bery thin, that they may have rome to Mot out their branches: For if you let them thick, they will never beare wel, therefore you must fet them forty, or at the least thirty fot a funder: The Apple declareth his ripenes, by the blacknes of his kernels. They are gathered after the fourteenth of September, or there about, according to their kinde, and not before the Home be feauentiene dates old, in faire weather, and in the after none: Those that fall from the tree, must be laid by themselues : it is bets ter to pull them, then to thake them, least they be banifed in their falling. They are kept in faire lefts, baults, or colo places, with To keepe windowes opening toward the Porth, which in faire meather Apples. must be fet wide open: f therfore Varro would have all Apple lofts have their windowes North, that they may receive the Porth aire: the South winds must be thut out: The blatts of the porth winde, doth make them wainkled & rugged : they must be laid thin bpon Straw Chaffe, of Pats. I had an Apple brought me out of Holland. 14

Holland, that endured thic yeres: I have a tree of them here in this Dichard of his colour, called a Greening. You must lap enery fort by themselves, left sundry sorts lying together, they somer rotte. Some ble to lay them in Putleaues, which both giveth them god colour, and god smell. They are also kept from rotting, if they be lapo in Barley of Wheate. Palladius would have them kept in earthen bestelsciole Copped, in Sesterns, 02 in Caues: Apulcius in Conflantine, would have enery Apple wans ped in Aut leanes, and fo lato bp : a great fort of water befine of keeping them, you shall read in divers Authours. Some to avoice the hurt of the frost, ble to couer them with wette Linnen cloth, which being frozen, the fruit that lyeth bnder it, is preferued. Pour Apples must be so land by as the stalkes stand downward : neither must you touch any, but such as you neede. Apples are hurtfull to bearing cattell, so as the fauour causeth them to tyze, as Lucian inhis Alle witnelleth: the like is written of Beares: the remedy, they lay, is to let them eate some of the fruit afore. Df Apples, with certaine Bils for the purpofe, they make a drink called Cider, and a small dzinke beside with water, and the refuse of the Apples Crained, agod dainke to cole the thirst of the poze labourer. A kinde of Tiniger also they make of Crabs, and sowie Apples, which lying in heape together thee or foure bates, they afterwards put into a Dipe or Tunne, wherewith they mingle Spring water, or Kayne water, and so is it suffered to stand close covered thirtie daies, and after taking out what Wineget The peare, they neede, they put in againe as much mater. The Peare, in Las tine Pirus, challengeth the next place, & is one of the chiefest beaus ties of the Dzchard. The Apple træspreadeth in broad bra nches: the Peare træ rifeth in height, & delighteth in a rich and a moit ground: it both grow of the Bernell, and of the Pippen, but is a great while before it come to god: and when it is growne, it degenerateth from them his old god Pature, and therefore it is better to take the wilde plants, and to let them in their ground in Pouember, and when they be well roted, you may graffe bpon them. It is faid, that it so prospereth with often digs ging, and much moisture, as it never loseth his flower. You thall doe great god buto it, if every other yeare you bestow some dung byonit. Ore dung is thought to make great and mailie Dearch:

Peares: some put to a little Athes to make their take the please fanter. They are not alonely planted of the rotes, but also the very little twigs, being plucked from the rote, will grow. If you will fet young plants, let them be thee yeere old, or at the leaft two piere old befoze you let them. Some againetake the fayzest branches they finde boon the tree, and let them as they doe the Dlive. The time of graffing the Peare, is Parch and Apaill : Plinic faith, you may well graffe it when the blottome is on it, which I my felfe have treed to be true. It is graffed bpon the Duince the Almond tra, the Pomegranate, the Apple, and the Dulberie træ: if you graffe bpon the Pulberie, your Peare Chall bered. Virgill teacheth to graffe it bpon an Ache, whereas indiede it will agrie with any stock: the Graffe must be the growth of a piere, and afoze it be graffed, cliered of all leanes and tender parts. And if you would have the fruit pleasant, and the trice Kruitfull, you thall boare a hole through the Aoche close by the ground, and dziuing in an Dken oz a Biechen pinne, coner it bp with earth: if the tree prosper not, walh the rotes, and water them with the less of old Waine fifteene vales, so Challit beare the better and pleasanter fruit. It shall never behurt with wormes, if when ye plant it, you doe annoint it with the Baule of an Dre: if the træ (whose rotes haue bene cut) seme not to prosper, Palladiushis remedy is, to pierce the rate thorow, and to brine in a pinne, made either of Dake of Plumtree. If your Peares be fos nie, and choake Peares, dig by the earth from the rotes, cleanle them of fromes, and fift in goo new mould againe in the place: let your Peare très Kand thirtie sæte alunder, og little less : your Apple tree farther, as I have faid. They are kept preferued To keepe funday waies, some dipping the Malks in boyling Pitch, doe after, peares. wards hang them bp, and so keepe them: others keepe them in new boyled Wine, or else in a close vessell: others in sand, some in flocks, and some againe covered with wheate, or chaffe: some are of opinion, there is no kinde of fruit, but may be preferued in honey. De Beares Palladius teacheth, as of Apples, to make both beinke and faule, the fupce being press out with the presses women have a pretty dish made of Peares for their religious facts, called Castimoniale. Pert in order, after Apples and Peares, com The meth the Quince, which was first by Cato salled Cotoneum, the Quinces

Bies call it, Eudlavior, of the Titie Cydon, from whence it was first brought : the Italians, Meie cotogne, the Spaniards, Membrillo: the French men, Vn coiginer: both the Brekes and Vir. gil, call them of the colour χουσομήλα, Golden Apples, & Struthia. which kinde (though they differ a little) are of this fort : for Colu. mella speaketh of their forts of Duinces, Struthia, Chrysomela, and Muckea, which all ferue both for health and pleasure. They are planted after the same manner that Peares and Cheries are: fome affirme, that the lettes that have beene let in Barch, or in February, have taken such rote, as they have borne fruit the pere after. They grow well in cold and mouff Countries, in plaine & hillie grounds. In hot dry Countries, you muft fet them in Daober. Pany fet them with the tops and the fet, but neither of them both is very god : and being fet of science, they fone des generate. They are better graffed in the Rock then in the backe, and that in February or March. They receive into their focks. the Graffes (in a manner) of all manner of trees, the Pomegras nate, the Service, all the forts of Apples, and make the fruit the better. The Quince tree must be fet in that order, that in the thas king of the winde, they drop not one boanthe other. When it is young or newly planted, it is helped with bung, or better with Athes: they must be watred as often as the featon is bery drie, and digged about continually: in hot Countries in Daober, 02 Pouember: in cold Countries, in Februarie or Barch: for if you doe not often dig about them, they will either be barraine, 02 beare naughtieftuit: they must be proyned, cut, and ridde of all encombraunces. If the tree be ficke, or profper not well, the rote must be watred with the mother of Dyle, mingled with the like quantitie of water, as Didymus in Constantine saith, oz bulleckt Lime mingled with chalke, or Rozen and Carre must be powered bponthe rotes: you shall gather them in a fayze bay, being sound and unspotted, and very ripe, and in the wane of the Done. They are best kept coffened betwirt two hollow Tiles, well closed on every fide with Clay: somelay them onely in day places, where no winde commeth : others keepe them in Chaffe and Taheate, many in Honey: some in Wine, and maketh the Wine moze pleasant. Democritus biodeth you beware, that you lay them not nære other fruit, because with the ayre they will corrupt them.

There

To keepe Quinces.

There is also made a kinde of Wine of Duinces (being beaten and preffed) and a little Hony & Dyle put into it: our Countrimen make of them a precious Conferue, and Marmelave, being congealed with long fething, and boyled with Sugar, Wine, and Spices. I will now thew you of the Declar, which the Latines The Medcall Mespilus, the Italians Mespilo the Spaniaros Mespero, the lar. Frenchmen Melplier, oz Nefflier, the Dutchmen Melpelen: this Trais also of the number of Apple tras, and Peare tras : it is planted in like manner as the Quince is : it delighteth in hot places, but well watered, though it doe well enough in cold. The have fæneit prospervery well among Dies, and Woods: for we have fiene great Mods of them growing among Dkes, that have pærely pæloed a great deale of money. Some lap, it is planted of the fcience, in Parch o: Ponember, in a well dounged ground and mellow, so that both the ends be rubbed ouer with doung. It is also set of the Stone, but then it is very long before it come to any thing : it is excellently well graffed in the Bramble, the the Pirrie, or the Apple. The Wedlars that you meane to kepe, muft be gathered befozethey be ripe : and being luffered to grow bpon the Tree, they last a great part of the Winter : they are also preferned in sodden Mine, and Mineger, and Wia, ter. In Catoes time they were not knowne in Italie. Plinie and others have spoken of them : neither is it certains, whether the old waiters toke them for Seruilles. Plinie speaketh of thee kindes of them : The first kinde hauing but the fones in them. called therefore Tricoccum : wie have at this day two kindes, the one having here and there prickles, growing in every Wood and Thicket, very fowze afoze it be mellowed, & made foft with froft, and cold of Whinter: the other having no prickles at all with a great fruit, which fæmeth to be brought hereunto by diligent Planting and Graffing. The Wood of the wilde Pedlar we ble to make Spokes for Whieles of, and the tivigs of them ferue for Carters whips. Pert bnto the Dedlar, for neighbourhoo fake, we must speake of the Serviste, a high tree with a round berry, 02 fathioned like an Egge: wherfore it is called ova, as Theophrastus Witnesteth, and the fruit Sou, the Latines call it Sorbus, the Italia ans as the Latines, the Spaniards Servall, the Frenchmen Cormic, 02 Cormier, the Dutchmen Sporeffelbaum; The fruit growes (CEPUS

in cluffers as the Grape doth: the wilde is better then the Gars den fruit. It delighteth in cold places, and if you plant it in hotte Countries it will ware barraine. It hath no prickles as the Ded. lar hath, it groweth of the Kone, the fet, the rote, or the frience, and prospereth in a cold and wet sople byon hilles: it is planted in February and Parch in cold Countties; and hot, in Datober and Ponember. It is graffed either boon his owne focke, oz on the Quince or Hawthorne, eyther in the Kocke or thebarke.

THRA. I maruell how can you have Pomegranates here, I pray you their what order you ble.

mates.

MARIVS. Among the Arange fruits, there is none compas rable to the Pomegratate (so called Ithinke) because of his Pomegra- Countrey, Carthage and Africa, where the best doe grow: the tree (as per fe) is not high, the leafe narrow, fof a berp faire greene, the flawe Burple, and long like a Coffine, the Apple that is compassed with a thicke rince, is all full of graines within: it is called of the Greekes goà or goià, as well the tree as the fruit eox ydukeix xai of vadus, the Pomegranate sweete and sowze, it is called in Latine Malum Puaicum, and Malum Granatum in Italian Male grano, in Sanith Granada, in French Pomes de Granad, in Dutch Granatapffel. This Tre onelp as the Figge and the Mine, the body being clouen, dieth not : the branches are full of prickies as the Gorff is: it loueth both a hot ground, and a hot Countrie, and liketh not watrie places. In some hot Couns fries, it groweth wilde in the bulbes : it is planted in the spzing time, the rootes being watred with Bogs dung and Kale. It is graffed byon his owne focke, and also byon other trees, & like wife of the sciences that grow from the rotes of the olde tree. And though it may be planted funday wayes, yet the best way is the branches of a cubit in length, smothed with your knife at both the ends, and let flopewife in the ground, with both his endes well smeared with Hogges dung and stale. There is also and otherway of planting it, which is, to take a very fruitfull itocke, which may be brought to the earth, and him after the manner of ther træs they Graffe by infolliation, betwirt the barke and the rinde, and well and closely bindeit: after, thep fet it in the ground, not touching the graffed part, but the parts beneath, annoins sing it with the mother of oyle, and make it fast with cordes,

that

that it flip not backe, till the branch be growne. It much delighe teth (as Democritus faith) in the Mystill, in so much as the rots will meete and tangle together with great toy. The fruit will groin without kernels, if as in the Wine the pith being taken out, the fet be concred with earth, and (when it hath taken ) the spring be propned. There is (as African reporteth) in every Pomegranate a like number of graines, though they differ in bignes, Balill writeth in his Hexam, that the fowre Pomegranate will grow to be (weet, if the body of the tre nere to the rot be pierced through, and filled by with a fat Ditch tree pin: you thall have them endure a very great while, if they be first dipped in scaulding water, and taken out quickely, be laide in day land, og elle in some heape of wheate in the haddow, till they be wainchled, oz elfe fo couered with chaffe, as they touch not one the other. Dther far it is bett to keepe them like Duinces, couered with platter, or chalke : for in cold places they are kept without corrupting. The ringe of the Domegranate is called in Latine Malicorium: the flowing of the Barben Domegranate, Dioscorides calleth, KUTIVOV, and of the milde Badgeotop.

THRA. I heare also, the Dut-landish Extronis bere berie

carefully planted.

MARIVS. The Cytron, called alfo the Median, the Perlian, Cytrons. and the Affirian Apple, because it was first brought out of Perlia. & from the Medes:others lay it was first brought out of Africains to Greece, by Hercules: and therefore Varro calleth it, the Apple of Africa: they are called in Italian Cirroni, in Spanish Zidras, in Dutch Geternapffel Pomerancen, in French Citron: thefruit is called in Latine Hipericum, & Aureum malum, the golden Apple. also the martage Apple of Supiter and Juno : such of them as are pellow, & of a golden colour, they commonly call Dranges : fuch as are of a granify pale yellow, they call Cotrols, or Citruls: those that are long fashioned like an Egge, if they be vellow, are called Citrons, if they be græne, Limons: if they be bery great and round like Dompeons, they call them Domciozons: the tree both alwaies beare fruit, some falling, some ripe, a some springing: nature the wing in them a wonderfull fertilitie, as in the trees that Homer describeth in the Dachards of Alcinous. The leafe is like the Bay leafe, fauing that there grow prickles amongst them: the

the fruit is pellow, winckled without, fluet in fauour, and fomce in take: the kernels like the kernels of a Beare, a great relitter of porsons. The Trie is planted (as Palladius saith) foure manner of waies, Dithe Bernell, the Science, the 13 zanch. and the Stocke. If you will fet the kernell, you muft digge the earth two fote enery way, and mingle it with Albes : you must make thost beds, that they may be watred with gutters on every fide. In thefe beds you must spen the earth with your hands a hand bredth, and let three kernels together, with the tops downer ward, and being concred, water them enery day; and when thep foring, leave no weedes neere them : they will foring the foner. if you water them with warme water: others say it is best the grains being taken out in the fpzing, to fet them diffgently in god mellowed furrowes, and to water them every fourth or fift day: and when they begin to grow, to remoone them againe in the Spring, to agentle and a morft ground, for it delighteth in much wet : if you let the branch, you must not let it about a fote and a halfe in the ground, lest it rot. The science and the stocke, Palladius thinketh it better to be planted, and theweth which way, If any man meane to cherith this trie, let him defend it well from the Porth, and let it toward the South, and the Sunne, in the Winter, in frailes and baskets: wherefore, some that are carefull and diligent in the tendering of this træ, do make little baults to ward the South, close couered : and within them, niere the wall, they plant the Dzenge, luffering the vaults all Summer to lie or pen to the Sunne, and to have the heat thereof: and as some as Winter comes, they couer them Araight with Araw, or mattes, specially with the traiks of gourds. This trie delighteth to be cons tinually digged about : they are graffed in hot places in Apzill, in cold Countries in Day, not bnder the barke, but cleaning to the Rocke hard by the rote: they may be graffed both on the Beare tree, and the Hulberie: but when they are graffed, must be fenced either with a wicker basket, or some earthen vessell. The fruit will be fweet, if the kernels be feeped in water fodde with honey, or which is better in Shæpes milke. Such as you meane to kæpe, must bæ gathered in the night, the Done being downe, and gathered with branches and all, as they hang. Where the fruit burdneth the Aric, you must pull them off, and leave but few

on it, which will be the pleasanter, and the kindlier fruit. It is at this day nourished both in Germanie and France, and is planted in beliels full of earth, and in hot weather is fet abroad in the Sunne : in cold weather fet in Schlars, og in hot houses. I have foene in Germanie, certaine hot-houses, of purpose made of Firre bordes, that in Minter haue warmed all the Barden, & in Some mer the frames taken away, have given place to the Sunne. If while they be young and little they be put into earthen beliels, 02 glasse, they grow according to the proportion thereof: so that you map have them fathioned either like a man og like a beaff, accogo ding to your fancie: but you must so order your moulds, as the aire may come to them. But left I kiepe you to long with these outlandish Tras, I will speake something of our owne tras, where with we are better acquainted. Among which we have the Bul- The Mulberp, in Latine Moros, in Italian Moro, in Spanish Mora, in bery tree. French Meure, in Dutch Mulbern: this is accounted of all other træs the wifeft; because he neuer bloffometh til all cold weather be auite past: so that when somer you set the Bulbery begin to spring pou may be sure that Winter is at an end : he is ripe with the first, and budgeth out so hastily, as in one night with a noise he thaufteth out his leanes: they die the hands (as Plinic faith) with the inice of the ripe berrie, walhit off with the græne berrie: he changeth his colour theife, first white, then red, and lastly black the loueth hot places, and gravelly, and delights in digging and dungs ing, but not in watering : his rotes muft be opened about Detos ber, and the Las of Wine powerd byon them: it is lette of the Kones, but thinne: it often groweth to be wilde: the best planting

is the science, and the tops, a fote and a halfelong, finoth at both endes, and rubbed over with owng. The place wherein you let pour Sets, they couer with Alhes mingled with earth, but couer it not about foure fingers thicke. Palladius bies pout to fet it in March, and to remoue it in Daober, oz Ponember. Deritius tels leth, that the Bulberic map be planted in the fall of the leafe, by thaufting into the ground the branches, after the order of the Fig træ, which Imp felfe have proned, specially, if the end that is cut be well bruised, that it may the quicklier take rote: and so when you have made your hole with a fake, thuft it in : it is best graffed on the Birth, & the white Poplar, citherby graffing

in the Cocke, or by inoculation: and so Chall the berries be white. It is graffed also in the Fig, & the Elme, which in old time they would not suffer, for seare of corrupting. Of the Pulberie is made a very noble medicine for the Comacke, and for the gout: they will longest indure (as it is said) kept in glasses. The leaves do serve to seed Silke-wormes withall, whereof some make a very great gaine, and set them rather for that purpose then for the fruit.

THR A. What tree is that with the ruddie coloured fruit, that

is like a Cherrie:

The Cornell.

Ziziphus.

Magivs. It is a Cornelltrie, called in Latine Cornus, in Italian Corneolo, in Spanish Zercko selucstro, in French Cornier, in Dutch Cornelbaum: this trie is thought never to excise twelve cubits in height: the body is sound and thicke, like home: the leafe is like an almond leafe, but fatter: the slowing and the fruit is like the Olive, with many beries hanging byon one stalke, first white, and after red: the suyce of the ripe berries, is of a bloudy colour: it loueth both Pountaines and Italies, and prospected both in moyst ground and drie: it groweth both of the slippe, and of the siede. You must beware you plant it not neve to your Bes, sor the slowing both kill as many of them as taketh it.

THRA. What Tre is the same that groweth next bs:

MARIVS. That Tree is called Ziziphus, in Italian Guiggiole, in Spanith Azofeilo, in French Iniuba, in Dutch Burckbyrle, the beries whereof, are like the Cornel berries, the flower like the Dline flowze, but moze sweter. Columella speaketh of two kindes thereof, the one red, the other white: they are fet of the Stones, in hot Countries, in Appill, and in cold places in Day, oz elfe in June: you may fet both the ftone, and the beanch: it is very flow in growing : if you fet the plant, you must doe it in Parch in foft ground : but if you fet the ftone, you must fet them in a little trench of a hand broad, three stones together, with their points downeward. It loueth not twrich a ground, but rather a light ground, and a warme place. In Winter (as Palladius faith) it is goo to lay Kones about the body of the Tree. The nert are Italian Filberts, in Latine Pistacea, in Italian Pistinachi, in Spanish Alhozigo, in French Pistaches, in Dutch Welsce pimpernus : the leafe is narrow and browne : for byon the branches

Italian Filbert. hang the Puts, like the Puts of the Pine. Of this tree it is thought there is both male and female, and therefore they grow commonly together, the male having biderneath his their, as it were, long Cones: It is graffed about the first of Aprill, but up on his owne Cocke, and upon the Terebinth, and the Almond Tree, they are also set (as Palladius witnesseth) in the fall of the lease in October, both of the sips, and the Put. It delighteth in a hot and a moult countrie, and ioues in often watring.

THRA. Because I remember you tolde me besoze, that of Plants and Træs, some doe grow of the sæd, oz fruit, and some are Graffed: and because I have heard the Graffing of most of them, I would now faine heare you speake of such Træs as grow

onely of the stone, oz berrie.

Marivs. Pour remembrance is god: for though they commonly grow better when they be graffes, yet some there be that prosper the better being sowen, and will scarce grow any of ther way. And though some of the foresaid Træs being set, doe well prosper, as the Pedlar, the Cornell, and divers other, yet sometimes they ware wilde, and are long before they come to persection, which Virgill also affirmeth:

For that same Tree that of the seed, the stone or berrie growes. Doth slowly spring, and long it is, ere any fruit he shewes: And when it comes, it proueth wilde, and doth degenerate, And loseth that same relish sweet, that longeth to his state.

But by Graffing it is restozed againe: Some of them againe, how foeuer they be solven or set, doe not degenerate or grow out of kinde, as the Bay, the Date, the Typresse, the Peach, the Abric cot, the Damson, the Pistace, the Firre Træ, and the Cherrie: and because they be not all of one order, I will tell you severally of the chiefest of them. To plant Træs of the sæde, Pature (as I sayd before) taught men at the first: the sæde being devoured of Birds, and with the doung let fall in the clests of Træs, where they after sprong and grew.

The Bay, in Latine Laurus, in all other tongues almost as st The Bay. Latine. The berry is called in Latine Lauri Bacco, in Italian Bacche de Lauro, in Spanish Vaya de laurell, in Dutch Lorboren, a most gratefull Tree to the house, a poster to Emperours and Bishops,

Bithops, which chiefely garnitheth the house, and standeth als wayes at the entrie. Cato maketh two kindes thereof, the Delphick and Cypreste: the Delphick, equally coloured and greener, with great berries, in colour betwirt græne and red, wherewith the Conquerours at Delphos were wont to be crowned. The Cypreste Bay hath a Morter leafe, and a barker greene, guttered (as it were) round about the edges, which some (as Plinie fayth) suppose to be a wilde kinde: it groweth alwayes græne, and beareth berries, hee Moteth out his branches from the fides and therefore wareth some old and rotten : it doth not bery well away with cold ground, being hot of nature: it is planted divers. wates, the berries being dayed with the Porth winde, are gather red and layd abroad very thinne, left they cluffer together, afterward being wet with Arine, they are let in furrowes a handfull depe, and bery nære together: in Warch they be also planted of the flip, and the science. If you set them of the flip, you must set them not palling nine fot afunder: but so they grow out of kind. Somethink, that they may be graffed one in another, as also byon Secutife & the Afhe: the berries are to be gathered about the beginning of December, and to be fet in the beginning of Barch. Put træs are commonly planted of the Put, as all other thell-

Mut trecs.

The Al-

fruits arc. Df all puts, the Almond is counted to be the worthieff, mond tree. called in Italian Mandorle, in Spanist Almeidras, in French Amandes, in Dutch Mandeles : they are fet in February, & profper ina clare and hot ground, in a fat and a mort ground they will grow barren: they chiefely let fuch as are croked, and the young plants: they are let both of the Slips, the Bot, the Bernell. The Puts that you intend to fet, mult be laide a day before in foft dung : others fleepe them in water foode with honey, letting them lie therein but onely one night, least the tharpnesse of the honey spople the Plant: and being thus ordered, Columella faith, thep will be both the pleasanter, and grow the better. The tops and the Charpe ends you must fet volune ward : for from thence com. meth the rote, the edge mult frand toward the Aozth: pou mult fet thee of them in a Triangle, a handfull one from the other: they must be watred enery ten dates, till they grow to be great : At is also planted with the branches, taken from the midft of the tree. The Almond is graffed not neere the top of the Nocke, but about about the midit, upon the bowes that grow out. This Tree doth Some beare fruit, and flowseth before all others, in January, or February. Virgill accounts it for a Prognofficatour of the plene tifulnelle of Corne.

When thicke the Nut Tree flowres amidde the wood,

That all the branches laden bend withall:

And that they prosper well and come to good, That yeere befure, of Corne shall plenty fall.

The bitter once (which are the wholesomer) are made swick, if round about the Tree, foure fingers from the roote, you make alittle trench, by which he shall sweat out his bitternesse: or else if you open the rootes, and power thereon epther Arine, or Hogs dung: or if at the rote of the Tree, you thrust in a fat wedge of Witch Træ. By this meanes (as Balill layth) they will looke their bitternelle: but no Træ groweth somer out of kinde, and therefore you must often remove it, or graffe when it is great.

Walnuts, called in Latine luglantes, in Italian Nocy, in Spa Walnuts. mily Nuzes, in French Noix, in Dutch Groitle nulz : thep are let in the ground (as Plinic layth) the feame downeward, about the beginning of Warch: some thinke, that they will grow as the File bert doth, either of the flippe, or the roote: it groweth specily, and liketh a drie and cold place better then a hot. The Aut that you meane to let, will grow the better, if you luffer it to lye foure or fine bayes before in the water of a boy, and will prosper the moze, if it be often removed: those Puts (asit is thought) profper best, that are let fall by Crowes, and other birds. If you pierce the Tree through with an Augur, and fill by the place agains with a vin of Elme, the Træthall lofe his knottie hardneffe, nev ther will be lose his fruit, if you hang by either Mallet, or a picce of Skarlet from a dunghill.

THRA. Tahat is the reason you plant your Walnut tres round about on the outside of your Dichard, and not among your

other Trees ?

MARIVS. Because his shadow is great, and bulboles some, beside the hurt he doth with his dropping. He sucketh out a great deale of god inves from the ground : for as you fee, they are very mightie and high Wres, fo as some of them are two oz thee fadome about: they occupie a great deale of rome with their Tanding. 99 2

Canding, and beguile the other Trees of their lucenance : 150 fides, there are certaine Trees they agree not well withall, and therefore have I fet them on the outfide of my Drchard, as ftane dards to defend their fellowes from tempeff & weather. Among

Hafell Nuts.

Filberts.

Auts, is also to be recounted the Balell Auts, a kinde lubereof is the Filbert, called in Latine Auellana, in Italian Nociuole, in Spanish Auellamas, in French Noysette, in Dutch Haselnuzes: they are planted after the manner of the Almond: it delighteth in

clay and watriff grounds, and byon bils, being well able to abide the colde. They were first brought into Alia, and Greece, from Pontus, and therefore called Pontice and Heracliotice, &c. Among

Chestnuts the Puttes also chalengeth the Chestnut his place, though he be rather to be reckoned among Date, wherby he is called the Dat 02 Batte of Iupiter, in Latine Caltanea, in Italian Caltagne, in Spanish Castava, in French Castagnes, in Dutch Kastey: it ioueth well to grow on Pountaines, and in colde Countries: it hateth waters, and defireth a cleane and a good mould: it militheth not

> a moult granell ground, and topeth in a thadowie and Aostherly bancke, it hatetha fiffeand a red clay ground: it is planted both of the Put, and is let: it is better planting Woods of them, of the But, then of the fet, otherwife the fafer way were the fet, which in two pieces beareth fruit. It is planted when the Sunne

> is in the Equinoctiall, both of the science, the fet, the branch, and the rote, as the Dlive is. The Cheffnuts that poumeane to fowe, must be very faire and ripe, the newer they be the better

> they grow. Don must not set them after that sout that pour set Almonds, or Filberts, but with the tharpe end bpinard, and a fot a funder : the furrow must be a chaftman depe. Pou were bet

> ter (as I sayo) tomake your Grove of the But, then of the fets, which will be mete to be felled for fages in scauen pere. Columella, waiteth, that the Cheftnut, met for the supporting of

Uines, if he be fowed in well digged ground, both quickly fpzing, and being felled after fine peres, it prospereth like the Willow: and being cut out in Capes, it latteth till the next felling, as Chall

be the wed hereafter, when we speake of Mods. They will also hauethe Cheffnut to be graffed on the Walnut, the Bach, and the Dake : it hath bone fone, that where they grow two and

two together, they prosper the better.

The

The Dine in Latine Pinus, in Italian and Spanish Pino, in French Pin, in Dutch Hartzbaum, is planted not much bnitte to the Almond, the Bernels of the keite-clockes being fet as the Almond is: they are gathered in July, before the Caniculer windes, and crethe Auts, the hulke being broken, fall out. The best time of sowing them, Palladius reckoneth to be Daober, and Pouember: this Trie is thought to be a nourither of all that is folven buder it. The Ditch tree is called in Latine Picca, in Italian Pezzo, in Spanich Pino negro, in Dutch Rordannenbaum : but I come now to the Cherie. The Chery tre, in Italian, the Dree Ceralo, the fruit Cerale, and Ciregic, in Spar mith Cerezo, and Cereza, in French Cerifier, and Cerife, in Dutch Kirsbaum, Kerlen: the Tre is eafie to be planted, if the ftones be but cast abroad, they will grow with great encrease: such is their forwardnesse in growing, that the stayes or supporters of Mines, being made of Cherrie tree, are commonly feene to grow to be Trees. They are graffed byon the Plome Tree, byon his owne Rocke, bpon the Plane Trie, and on the Bramble, but best byon the wilde Cherie, it togeth in being graffed, and bear reth better fruit : if you graffe them bpon the Mine, your Tres Mall beare in the Spring: the time of graffing, is eyther when there is no Gumme bpon them, or when the Gumme hath left running. They remooue the wilde plant, either in Daober oz Pouember, that the first of January of February, when it hath taken roote, it may be graffed bpon. Martiall would have you graffe it in the ftocke: but indeed it prospereth better, being graf. fed betwirt the barke and the wood. It delighteth to be let in Diepe trenches, to have roome enough, and to be often digged as bout. It loneth to have the withered bow continually cut away: it groweth best in colde places, and so hateth dung as if it be land about them, they grow to bee wilde: it is also planted of the flips, and will beare his fruit without frones : if in the fetting of the let you turne the upper end downeward. Others will that the tree being yong and two foothigh, be flit downe to the woot, and the with taken out of both fides, and topned together, the feames close bound about, and conered with doing: which with in a piereafter, when it is well growen, the pong graffes (which hitherto have borne no fruit) if you graffe them, will beare Theries

The Che-

Cheries without stones, as Martiall sayth. There are sunday kindes of Theries (as Plinie reporteth, or Apronianus) that are redder then the reff, Actianus, as blacke as a cole: which kind in Germanie pet at this day they call Acklische kirsen, Celicians, that are round. Plinic in speaking of the sunday foats, preferreth the Duracins, which in Campania they were wonted to call Plinians: and a little after he faith, byon the bankes of the Uhine, there grow also Kersis, of colour betwirt blacke, red, and græne, like the Juniper beries, when they be almost ripe : in which the common fort of bokes haue Tertius for Kerlis amongtt the Bermanes: for Plinie, whereas in many places hee blurpeth the Dutch mozes, as in the 9. 10. 17. and 18. booke, and in diners other places, which being not understoo of the Latines, came altogether corrupted to the posteritie. There are also Bay Ches ries, graffed at the first in the Bay, and have a pacty pleasant bitternesse: at this bay, the small Cheries are best effæmed, growing bpon a low buth with thost stalkes, round fruit, and very red, much meat, loft, and full of licour. It is late they will beare very timely, if you lay Lime about them: it is god to gas ther them often, that they which pouleaue may ware the greater: for letting and planting of Cheries, you may reade a great fort of rules in the gatherings of Constantine. There are also found akinds of Cherries growing wiide in the Woods, and Dedge. rolves, with little beries, some redde, some altogether blacke, which the Farmers in the Countrey doe vie for to fatte their Hogs withall. The Plome tree in Greeke нонницинос, the fruit номицима, in Latine Prunus and Pruna, in Italian Prune and Succiut, in Spanish Cirvelo, and Cirvela, in French Prune, in Dutch Preumen, it is planted from the middle of Winter, till the Joes of February: but if you fet the Cones at the fall of the leafe, let it be done in Ponember, in a goo and mellow ground. two handfiels deepe: they may be like wife fet in February, but then they must be steeped in lye three dayes, that they may somer fyzing: they are also planted of the young fets that grow from the bedy of the trie, epther in January, or in the beginning of Fes bauary, the rates being wel coursed with dung: they prosper bett. in a rich and a mort ground, and in a colde Tointrep: they are graffed toward the end of March, and better in the clouen Rocks. then.

Plome trees.

then in the barke, or elfe in January, before the Gumme begin tobzop out : it is Graffed boon his owne focke, the Weach and the Almond. There are funday forts of Plames, whereof the Damfon is the principall, toping in a dry ground, & in a hot count trey, and is graffed as the other plomes are. There are divers coloured Plomes, white blacke, purple, and red: Wiheat Plomes, and Horse Plames, where with they ble to fat Hogs. The finger Plomes are most commended, being of length, amans finger, which are brought unto be from Bohemia and Hungarie, and lulians, and Noberdians, being blein in colour, but later. The Dame fons are oried in the Sunne byon Lattifes, Leads, or in an Duen, fome doe dip them befoze, either in fea water, or in Brine, and after date them. The Deach tree, cailed in Latine Perlica, in The Italian Perseo, in Spanish Durasuo, they are also called Rhodo-Peach cina, and Dorocina, or Duracina, whereof there are foure kindes: Trec. but the chiefelt are the Duracins, and the Abricots : in Poucme ber in hot Countries, and in others in January, the Cones are to be let two fot alunder in well dreffed ground, that when the poung trees are forong bp, they may be removed: but in the lete ting pou must let the tharpe end downeward, and let them stand two or three fingers in the ground : wherefoeuer they grow, they reforce most in water grounds, which ground if you want, loke that you water them abundantly, so thall you have great fore of fruit. Some would have them let in hot countries, and landy ground: whereby they fay, their fruit will longer endure: the bets ter will also the fruit be, if as some as you have eaten them, you fet the stone, with some part of the fruit cleaning to it: it is grafe fed either on himselfe, the Almond, or the Plometre, The Apples of Armenia, 02 Abatcot, both farre ercell the Beach, bled The Abrias a great baintie among poblemen, and much defired of the ficke: they are best graffed in the Plome, as the Weach in the Ale mond trie: the fairest graffes that grow next the body of the tries are to bee chosen and graffed in January, or Februarie, in cold countries, and in Pouember in hot: for if you take those that grow in the top, they will exther not grow, or if they grow, not long endure. Dou thall inoculate, oz imbudthem in Apzill oz Day, the Coche being cut aloft, and many young buddes fet in: neis Der mult pou luffer them to fand very farre one from the other,

that they may the better defend themselnes from the heat of the Sunne. The Frenchmen, and our Gardners allo, after the Ita lians order, doe graffe the Abricot, taking a graft (not full a finger long) or the bud that is well thot out, with a little of the rind cut off, and flitting the rind of a yong Plome tre croffcwife they fet them in binding them well about with Dempe, 02 Towe. and that in the end of June, or in July, and August. Some thinks they will be red, if thep be either graffed in the Plane tree, oz have Rofes fet underneath them : they will also bec figured, oz written in, if seauch dayes after that you have set the Rone, when it beginneth to open, you take out the Kernell and with Werms lion, or any other colour you may counterfeit what you will, after the frome closed by about it, and covered with Clay, or Doggis dung you fet it in the ground. Againe, you thall have them with. out fromes, if you pierce the Tre thosolo, and fill it by with a pinne of Willow, or Cornell tree, the pith being had out : the Rootes of the Tre must be cut and decle oin the fall of the leafe, and dounged with his owne leaves: you shall also at this time propne them; and riode them of all rotten and bead boines. If the Ereprosper not, power bpon the rootes the Lies of old Wine mingled with water. Against the heat of the Sunne, heape by the earth about them, water it in the evening, and has dow them as well as you map. Against the frosts, lay on bung enough, or the Lies of Wine medled with water, or water. Wherein Beancs haue beine fodden : if it be hurt with wormes, or fuch baggage, power on it the Urine of Dren medled with a third part of Uinegar.

The Date

The Date wee, in Italian, in Latine, and in Spanish Palma, in French Arbor de Dates, in Dutch Dack lenbaum: the fruit in Latine Palmulæ, in Italian Datoli in Spanish Dattiles. in French Dattes, in Dutch Dackelem it groweth in a mile gravelly ground, and belighteth in a watry soyle. I though it desires to have mater all the yeare long, yet in a day yeare it beares the better: there fore some thinke that rung is hurtful but oit. About the Kiver Nilus, in the Gast parts, it groweth plenteously, where as they vie to make both Unine and Bread of it: this Tree in Europe (for the most part) is barren, though it be planted of many for noughty sake.

The stones of Dates are planted in trenches of a cubit in depth

and breadth, the trench filled by againe with any manner of dung, ercept Goates oung : then in the middelt of the heape fet your Rones fo as the tharper part fand byward : others would have it Cano toward the Cat: and after, when first they have fpainche led thereon a little Salt, they couer them with earth, well meds led with dung : and every day while it springeth, they water it : some remoue it after a pieres growth, other let it growtill it be great. Pozeouer, because it belighteth in salt ground, the rotes must be dressed every yere, and fait throwne byon them : and fo will it quickly grow to be a great Trie. The Sets are not pres fently to be put in the ground, but first to be set in earthen Pots, and when they have taken rote, to be removed. Date Tres have such a delight one in the other, that they bend themselves to touch together, and if they grow alone, they ware barraine. They are planted (as Plinie faith) of the branches, two Cubites long, growing from the top of the Træ: also of the flips and flie uers. The fame Plinic affirmeth, that about Babylon, the very leafe (if it be fet) doth grow.

THRA. I remember you tolo me once, the Spring and Scisence that groweth out of the rotes of some Træs, will very well

be planted.

MARIVS. I told pou befoze, that divers of the Trees inheres of I spake, might be planted of the branches, and of the Sciens ces, having some part of the Rote plucked by with them: and so I faid the Cherrie might be planted, as also the Hasell, the Laus rell, the Mystell, and the Medlar : likewife the fairest branches Dipped off, and the ends a little bauised, and thauft into the ground, commonip doe grow to be Træs, as Imp felfe haue tried both in the Bulbery, the Pearestrie, and the Applestrie. Dne thing 3 will adde beside, that the Trees that beare fruit oner hastilp, doe either neuer come to their iust bignesse, or the fruit that they beare, both neuer long endure: whereof I thinke fprang first that law of Moiles, that fruit Tres thould for three pieres becoens ted bucircumcifed and their fore fainnes with their fruit, hould be sircumcifed: that is, the burgens and bloffomes thould be plucked off, leaft he thoulo beare befoze his time, og when he hath bozne, losehis fruit: but I kiepe you to long in the describing of my Dachard. THR A.

THRA. Dno, 3 rather (whilest 3 heare you) imagine my felfe to be amongst them, planting and vielwing of their fruits: but now remaineth that in Ceao of a conclusion to your talke, pour veclare the order of preferning them, to that end specially, that those things that are appointed for remedy (being not duely, or in

time administres: benotrather a hurt) then a helpe.

MARIVS. Pour motion is god: First therefore, and genes rally, dunging and watring is needfull for fruit Tres, a veryfele ercepted : and herein hede must be taken, that pou doe it not in the heate of the Sunne, and that it be neither to new, noz to olo: neither muft it be laive close to the fote of the Are, but a little distance of, that the fatnesse of the dung may be dunke in of the rote. Digeons bung, and Dogges bung, doe also heale the burts or wounds of Ares. The water inherewith we water them, must not be Fountaine water, or Well water, if other map be had, but drawne from some muddie Lake, or Kanding Bole. Mozeover, pou must take bobe, as Jalie told pou befoze) when we began to talke of planting of an Dzchard) that pour Tres Cand a god distance a funder, that when they are growne by. they may have rome enough to spread, and that the small and tens der, be not hart of the greater, neither by thaddow, noz dzopping. Some would have Pomegranate Tres, and Hytels, and Baies, let as thicke together as may be, not palling ninefote a funder : and likehoise Cherry tres, Plumb tres, Duinces, Apple très, and Peare très, thirtie fote and moze a funder: enery fort must stand by themselves, that (as I said) the weater be not hurt of the greater. The nature of the Soyle, is herein most to be regarded: for the Bill requireth to have them stand nærer together, in windy places you must let them the thicker. The Dlive (as Caro faith) mould have five at wenty for diffance at the leaft. You must set your plants in such sozt as the tops be not hurt, oz bauiled, noz the barke, oz rinde flawed off: for the barke being taken away round about, killeth any kinde of Erie. Pou of Trees. must also have a regard of the Haddow, what trees helpeth, and Avhat træs it hurteth. The Walnut træ, the Pine træ, the Pytch trie, and the Firre trie, what somer they shaddow, they poplon. The Chaddelp of the Walnut tree, and the Dake is hurtfull to Come: the Malnut tree with his thandow also, is hurtfull to mins

heads,

Shadow

beads, and to all things that is planted niere it. The Pine tree with his hadow likewife deffroyeth young Plants, but they both refift the winde, and therefore god to enclose Minepards. The Eppresse, his shadow is very small, and spreadeth not farre. The Chadolo of the Figge tree is gentle, though it spread farre, and therefore it may fafely enough grow amongst Uines. The Elme træ, his thadow is also milde, nourithing what somer it covereth. The Plane tree though it be thicke and groffe, is pleasant. The Poplar hath none, by the reason of the wavering of his leaves. The Alver tree hath a thickeshadolu, but nourishing to his neighbours. The Aines is sufficient for himselfe, and the mouing of his leafe, and often thaking, tempereth the heate of the Sunne, and in great raine well conereth it felfe. The hadow of all those, Dropping is commonly milde and gentle that have long Calkes: the dropping of all Tres is nought, but work of all those, whose branches grow fo as the water cannot readily passe through: for the props of the Pine, the Dake, and the Patholme, are most hurtfull, in whole company you may also take the Walnut : the Cypreffe (as Plinie faith) hurteth not. Hozeouer, propning and cutting, is very Proyning. god and necessary for trees, whereby the dead & withered boughes are cut away, and the unprofitable branches taken off: but to proins them every yere is naught, though the Uine requireth cutting enery yere: and enery other yere, the Mytill, the Pomes granate, and the Dline, whereby they will the coner beare fruit: the others must be the seldomer propned. Dlive tres must be propned in the fall of the leafe, after the fetting of the feauen flarres: and first, they must be well dunged, as a helpe against their hurts. Pou must cut away all the old rotten branches that grow in the middelf, and such as grow thicke, and are tangled to: gether, and all the water boughes, and unprofitable branches as bout them : the olde ones are to be cut close to the focke, from Inhence the new springs will arise. Scarifying also or launcing, ix scarifying very wholfome for the træs, when they are fereined with their leanes, & drinelle of their barkes -: at which time we bisto launce the barke with a tharpe knife, cutting it straight vower in many places: which, what god it both, appeareth by the opening and gaping of the rinde, which is Araight-wates filled by with the bes dybnderneath. You must also trim and desse the rotes of your Tras

tion.

Ablaquea- Træs after this fort : Dou mutt open the ground round about them, that they may be comforted with the warmth of the Sunne. and the raine, cutting away all the rotes that runne byward. The trees that you remove, must be marked which way they stood at the first : for fo teacheth Virgill :

Remouing.

And in the barke they fet a signe. To know which way the Tree did grow: Which part did to the South encline. And where the Northerne blastes did blow.

Also you must consider well the nature of the Sople, that you remoue out of a date ground, into a moult, and from a barraine hill, to a moift Plaine, and rather fatte, then otherwife. The young plants being thus remoued, must in the second or third pære be proposed, leaving fill about three or foure branches bno touched, so shall they the better grow: thus must you blually doe enerie other pere. The old frie we remone with the tops cut off. and the rotes unperified, which must be helped with often dung ing and watering. Applestres that blostome and beare no fruit, of if it beare, they fodainly fall alway, you shall remedie by aitting of the rote, and thruffing in of a ftone, or a wooden wedge. Allo if you water your Trees with Theme that is olde, it greatly quais leth (as they lay) both for the fruitfulnesse, and pleasantnesse of the fruit. If the Tree vecay by reason of the great heate of the trees beare Sunne, pou must raise the earth about it, and water the rotes enery night, setting bp some befence against the Sunne. To their fruit, cause their fruit to be quickly ripe, you must wet the little rotes a remedie. With Minegar, and Maine that is olde, covering them againe with earth, and oft digging about them. The Maine of men, if it be kept thee of foure moneths, both wonderfull much god to plants, which if you ble about Uines, oz Applestres, it doth not onely bying you great encrease, but also giveth an excellent task and sav uour, both to the fruit and the wine : you may also ble the mother of oyle, such as is without falt, to the same purpose, which both must spædily be bled in Winter.

When hold not

THRA. The lie that frosts and miss, doe oftentimes great

harme to Tres, have you any remedy against it ?

MARIVS. Against frosts and mists, you must lay by round about your Dechard, little Faggots made of Kalkes, rotten bowes,

boughes, or Araw, which when the frosts, or milts arife, may be kindled, the smoake whereof anoydeth the danger. You must state also drie dung amongst your Aines, which when the frost is great, you may set a fire: the smoake whereof disperseth the frost.

THRA. What if the Trees be licke, and prosper not?

Marivs. When they have any licknesse, they ble to powie by on the Kotes the Lies of Wine mingled with water, and to sow Lupines round about them. The water also wherein Lupines have beine sod, powied round about, is very god (as Plinic saith) for Appletrees.

THRA. Tres are oftentimes also hurt with wormes.

MARIVS. If your Trees be troubled with wormes, there are divers remedies, for the inyce of Marmewood destroyeth the Caterpillers. The fedes og graine, that are fleeped in the inyce of Sengræne, og Houselæke, are also safe from any wozmes : also Athes mingled with the mother of Dyle, or the Rale of an Dre, medled with a third part of Ainegar. Pozeover, they fay, that the Tres that are smoaked with Bzimstone, oz Lime, are sake from hurtfull vermine: Galbanum likewife burnt opon the coales, driveth them away. The blades also of Barlicke, the heads bes ing off, to burnt (as the smoake may passe through the Dechard) both deltroy the Caterpillers: some mingle Sote with the lads, and sprinckle them with water. Democritus writeth, that a woman in her bucleanenesse, bugirt, and her haire hanging about her Moulders, if the goe bare fote round about the place, the Cas terpillers will prefently fail : but perhaps I trouble you with this tedious, or long discourse of Dearbs, Plants, and Tres, and therefore though there be much more to be spoken of , least 3 Could feime to ouer wearie you, I will make an end.

THRA. A frouble: no, you have done me a fingular great pleasure, in declaring but ome the right ordering of a Garden, and an Drchard, which not throughly entreated of by others, you have briefely, and perfectly, to our great commoditie described. And whereas you have largely spoken of our Tries at home, it remainesh sor you to say something of the disposing of Mods. It was my chaunce to passe yesterday, by a great Mod of Dakes, It was my chaunce to passe yesterday, by a great Mod of Dakes, and Coppile, planted in very god order, and bard by, a Will ome

Grous byon the kide of a Kiner, excellently well ordered, where the Fields were enclosed round about with great Elmes, which greatly beautifieth your dwelling, and yield (I warrant) no finall profit: I therefore greatly defire to heare something of this part of husbandrie.

Marivs. Thought be without my conenant, and that you demaund moze then I promised, yet since you force me, I will not resule it, least you should thinke I would faile you in any Of Woods thing. As touching Mods, Ancus Martius (as Petrus Crinitus writeth) was the first in Rome that ever dealt in them: the oldesather had alwaies a special regard of Mods, wherefore virgill saith:

If that of Woods I frame my Song,
Woods vnto Princes doe belong:
If that of Woods I lift to fing,
Woods may full well before a King.

It was ordained by the Romanes, that the Confuls thouse have the charge of the Tamos, that there hould no Apmber be wanting for building of Boules, and Ships, and other Tymbers mozkes, both publique, and prinate. The fate of Venice at this day, obserueth the same ozder, pointing a private Officer for their Mods, who hath in charge as well to le to the yearely planting of them, as to let that there be wanting no Tymber, foz their necessarie vies. The Wood that you told me you passed by is of Dakes, Beches, and other Paft tres: some part ferning for Tymber, and other for felvell. Of thefe therefore will 3 first begin to speake, and then of Dline Groves, and Willowes, some of them be wilde, and grow of themselves, not needing any loking tw, but such, as daily experience themes, are nothing so god, as those that are planted. Woods, and Forrests, doe chiefely confift of Dake, Boch, Fyzre træ, Byzche, Pine, Pitch træ, Walts holme, Corke, wilde Dline, Bedlar, Crabetra, Juniper, Core nell, and Pyrie: other Mods have other tres, according to the nature of the ground. The great Mod of Harteswald in Germanie, as it runneth through divers Countries, beareth in some place onely Dake, in others Bech, in others fyres. The For rest of Arderne for the most part beareth Dake: Monnificello, Larth, Ferre, Cornell, and Tamarice. Monte D.S. Gothereo,

great aboundance of Cheffnut tres. These wilder fort, though they grow of themselves, may yet well be planted, if you have meete ground of the Acome, and the Berry: each of them liketh some one kinde of ground better then another, as first Theophra-Rus, and after Plinie hath declared. In the mountaines delighteth the freetrie, the Cedar, the Larth, the Witch trie, and fuch as beare Rofine : as also the Doime, the Terebinth, the Cheffent, the Dallholme, the Dake, the Bech, the Juniper, the Cornell, and the Dogge tree: though some of these also prosper well co nough in the plaine. The Fries, the Dake, the Thefinut, the Frerebech the Daltholme, and the Cornell grow as well in the Malley, as on the Mountaine: bpon the Plaines you hall have the Tamarir, the Cime, the Poplar, the Wallow, the Hafell, the Walnut, the Dornebeame, the Maple, the Athe, and the Beech. Dou hall not lightly for the Plumb tro, the Apple, the wilde D. live, nor the Mainut, byon the Dountaine, all fuch as grow as well in the Plaine, as boon the Pountaine, are larger, and fairer to the eye, growing in the Plaine, but are better for Tymber, and fruit, byon the Bountaine, except the Weare, and the Ape ple, (as Theophrastus saith.) In Parrich ground delighteth the Willow, the Alder, the Poplar, and the Princy. And although the most Modes doe spring of their owne nature and accord, pet are they by planting, labour, and biligence, brought to be a areat deals more fayre and fruitfull: for, as afore I told pou how fruit tres are nourifhed and brought by in June Bardens; so are these wilde and fruitlesse tres set and planted for Timber and fewell. De that is disposed to plant a Wood, mult firit, according to his foyle, chofe his fets: and if he have them not fprinaing of his ofme, let him make an Jimpe Barden of the fiebes, en. cioling well the ground with Geoge, Kampire, oz Ditch, leaft Shepe, Goates, or any other Cattell, come in to bite and brouse tt: for whatfoever they have once bitten (as it were infected Infth a ceadly poplon) peritheth: and therefore those that meane to plant Modes, epther for Timber, Fewell, or Mafte, muft carefully proute against these burtfull enemies. The Countrey lawes have therein well provided, that where fuch Springs are, thep thall fiede no Goates, noz luch Cattell. Amongithe Baff The Oake Trees, and such as serve for Tymber, the first place of right belongeth

belongeth to the Dake, called in Latine Quercus, in Italian Quercia, in Spanith Roble, in French Chelny, in Dutch Eichenbaum, he that will then plant an Dake Grove, must provide him of ripe Acornes, not over bried, nor faultie, or any way corrupe ted : these must be sow in good ground well tilled, with as great carefulnelle as he plants his Dechard, and well enclose it, that there come no Cattell in it : which (when they be something growne) you must about februarie remoue to the place where you entend to plant your Wood : if you cut and propne them, if is thought they will prosper the better for Watt: but if you referue them for Timber, you must not touch the tops, that it may runne by the Araighter and higher. In removing them, you must make pour trenches a forte and a halfe deepe, conering the Kotes well with earth, taking god hede pou neither brufe them, noz breake them : for better you were to cut them. The Dake agreeth well enough with all manner of ground, but prospereth the better in Parthes, and watry places: it groweth almost in all grounds, yea even in gravell and fand, except it be over-day : it liketh worst a fat ground, neither refuseth it the mountaine. We have at this day an Dake in Wellphalia, not farre from the Cattle of Altenan, which is from the fate to the neveft bow, one hundred and thirty fore, and three elles in thicknesse: and anos ther in another place, that being cut out, made a hundled Waine loade: not farre from this place there grew another Dake of tenne yards in thicknesse, but not very high : the Rouers in Germanie, were want to vie for their Ships hollowed Tres, where of some one (as Plinie laith) would carrie thirtie men. The nert amongst the Past tres is the Bech, in Latine Fagus, in Italian Faggio, in Spanith Haya, in French Faus, in Dutch Buchen, plans ted almost after the same manner that the Dakes be. The Wasts holme in Latine Ilex, in Italian where it is better knowne Elice, in Spanish Enzina, in French Haussen: it groweth high, if it haue a ground meete for it: it prospereth bpon hilles, and likes not the Plaine: it beareth Acomes letter then the Acomes of the Dake, a teafe like a Bay, and is continually græne. The like hath the Corkestrie, in Latine Suber, in Spanish Alcornoque, in French Liege, which is counted amongst those that beare Patt, the barke whereof we occupie for the flotes of our filling pets,

Beech

and in Pantofels for Whinter: all other trees (fauing onely the Corke, if you spoyle them of their barke dos dye. Another Baltbearing Die there is , called in Latine Quercus filueftrum , in French Chefne, a kinde whereof some thinke the Cerretrie to be, called in Latine Cerrus, growing in wilde and barren places. There are some that doe number the Chestnut træamongst the Mast bearers : but of this I have spoken befoze. The best Past Mast, and is the Dke Paff, the nert the Bech and the Cheffnut, then the his diffewilde Die, tc. All very good and meet for the fatting of Cat, rences: tell, specially Hogges. The Die Past, og Acozne, maketh thicke Bacon, found fielh, and long lafting, if it be well falted and bried: on the other fide, Cheffauts and Bech Baft : make sweet and delicate flety, light of digestion, but not so long lasting. The nert is the Cerre Tree, that maketh very found and god fleth : The Pattholme maketh pleasant Bacon, faire and weightie. Plinic faith, that it was ordained by the Lain of the twelve Tables, that it thould be lawfull for any man to gather his owne Baff, falling upon the ground of his neighbour, which the Edict of the chiefe Justice both thus interprete: that it wall be lawfull for him to doe it their dayes together, with this pronifo, that hee chall onely gather the Acornes, and doe no harme to his neighbour, as Vlpianus witnelleth. Glans Paft (as Caius sayth) is taken for the fruit of all trees, as Augo'dua, signifieth with the Greeke, though properly Angualgod, be those fruits that are thelde, as Puts, and fuch other. Upon these Ball bearers there groweth also the Ball, in French Noix de Galle, in Italian and Dutch, as in Latine, in Spanish Agalla, a little Ball, rugged and buenen without, whereof some be mattie, some hollow, some blacke, some white, some bigge, some lester. It groweth (as Plinic fapth) the Sunne riling in Gemini, commonly all out Enddenly in one night: in one day it wareth white, and if the heat of the Sunns then take it, it withereth: the blacke continueth the longer, and groweth fometime to the bigneffe of an Apple: thefe ferueth beit to curry withall, and the other to finish the Leather, the worlt is of the Dake: and thus of such Tres as beare Date. Pow will I isyne withall the principallest of the other Trees, to make by your Moddes, amongst which are the Cime, and the Willow: the Cime, in Latine Vinus, The Elme,

in Italian and Spanish Olmo, in French Orme, in Dutch Vlm. baum, and Yffenholtz: the planting whereof, because it is to great vie, and easily growes, we may not let paste : first, because it groweth well with the Tine, and ministreth god fode to Cat. tle: secondly (as it is all heart) it maketh good tymber. Theophrastus and Plinie doe both affirme the Elme to be barraine, peraduenture because the sæde at the first comming of the leafe, fæmeth to lye hid among the leaucs, and therefore it is thought to be some of the leafe (as Columella affirmeth.) He that will planta Groue of Elmes, muft gather the fede called Samara, as bout the beginning of Warch, when it beginneth to ware yellow, and after that it hath diped in the shaddow two dates, sowe it very thicke, and call fine fifted mould byon it, and if there come not god foze ofraine, water it well: after a yere you may res moueit to your Gime Gaone, fetting them certaine fote a funber, and to the end that they rote not to deepe, but may be take ken by againe, there must be betwirt them certaine little frene shes, a fote and a halfe distance: and on the rote you must knit n knot, or if they be very long, twiff them like a Garland, and being well nointed with Bullockes dung, fet them, and tread in the earth round about them. The female Elmes are better to: be planted in Autumne, because they have no sede : at this day in many places, cutting off Sets from the faireft Elmes, they fet them in trenches, from whence when they are a little growne, they gather like Sets, and by this dealing make a great gaine of them: in the like fort are planted Groves of Alhes. The Alhe Achgroues in Italian Fraxino, in Spanish Freino, in French Fraise, in Dutch Elchen: the Alle delighteth in rich and moist ground, and in plaine Countries, though it grow well enough also in date grounds, he specadeth out his Rotes bery farre, and therefore is not to be fet about Come ground, it may be felled enery third or fourth piece, for to make Capes for Uines. The Athegroweth bery fatt, and fuch as are forwards are let in Februarie, with fuch young Plants as come of them, in god handlome ozder franding a-row: others fet fuch Athes as they meane thail make suppor ters for Barden Mines, intrenches of a pare old, about the Cas lends of Warch: and before the thirty fixth moneth they touch

them not with any knife, for the preferring of the branches: after

encry

enery other pereit is proyned, and in the firt years toyned with the Mine: if you ble to cut away the branches, they will grow to a very godly height, with a round body, smooth, plaine, & strong: Plinic writeth of experience, that the Serpent ooth to abhore the Alhe, that if you enclose fire and him with the branches, he will rather runne into the fire then goe through the bowes. Byrch. Byrch. salled in Latine Betula, as Theophrastus writeth in his fourth Booke, is a Træ very mætefoz Moods: it prospereth in colve Countries, frostie, inowie and granelly, and in any barraine ground, wherefore they ble in barraine grounds, that ferue for no other purpole to plant Byzches: it is called in Italian Bedolla, in Dutch Byrken, in French Beula. Pine Woos, ffpare Mods, Witch tree, and Larly, are common in Italy about Erent. The Pine tree in Latine Pinus, in Italian and Spanish Pino, in The Pines Dutch Harrzbaum, is planted of his kernels, from Daober to Januarie, in hot and day Countries : and in cold and wet places, in Februarie or Parch : the kernels muft be gathered in June, before the clogges doe open, and where you lift to fowe them, ets ther bpon hilles or else where: you must first plow the ground and caft in your lede, as ye doe in folding of Come, and couer them gently with a light Harrow oz a Kake, not covering them aboue a hand broad : you shall doe well, if you lay the kernels in water their daies before. The kernels of the Pine are called in Spanith Pinones. The Firre tree, in Latine Abies, in Italian Firre tree. Abere, in Spanish Abero, in Dutch Deamen , loueth not to haue any great adoe made about it : if you be to curious in planting of it, it will grow (as they say) the worse, it growes of his owne kernell in wilde Pountaines, Plaines, or any where. The pitch Ditch træ, in Latine Picca, in Italian Pezzo, in Spanish El pino tree. de que le baza lapez, in Dutch Rododemem,is a træ of the kinde of Pines, and very like to the Dine, sweating out his Rozen as be doth : for there are fire kindes of thefe Rozen træs, the Pine, the Pitch tree, the wilde Pine, the Firre, the Larih, and the Marretrie, the planting of them all is alike. The Alder also mete for Webs, in Latine Alnus, in Italian Auno, in Dutch Elfen, in French Aulne, it groweth in plaine and marrith places niere to Kiners. Theophrastus saith, it gieldeth a frusts full fiede in the end of Summer: many places are commodioully planted

planted with Poplar, whereof there are two forts, the Willite, Poplar, white and and the Blacke; the Willite is called with the Italians, Popublacke. lo bianco: with the Spaniards, Alamo blanco: the Blacke, of the Italians, Populo nigro: of the other, Amalo nigrillo: in .

French, Peuplier : in Dutch, Peppelem : it is planted of the Branches and Settes, and delighteth in watrie places, or any o ther ground, it prometh very fact: the blacke hath the ruggedder barke, his leanes round while he is young, and comered in his age, white bnderneath, and greene aboue. The Tymber herce

of is god for buildings, specially within dozes: his wood is whitish within, and the rinde blackish, whence he hath his name.

Theophrastus addeth a third kinde, which some call the Boplar Willowes. of Libya, and of the Alpes, it hath a rugged barke, like the

> wilds Perrie: a leafe like Juie, and is in colour like a barke greene, tharpe at the one end, and broad at the other. The blacke Poplar groweth in great plentie about the lower parts of the Thome: though Homer call the Willow a fruitleffe tree, bes cause his fruit turneth into cobwebs before they be ripe: pet is the foueraignty given him amongst Wast stat are blually feld. Cato gineth the third place of husbandzy grounds to the Wills

low, preferring it either before the Dline Grone Ground, or Deddow, for it is oftner to be cutte, and groweth the thics ker: neyther is there to great gaine with so little charge in any thing. It delighteth in watrie grounds, darke and that

dolvie, and therefore is planted about Rivers and Lakes, how, be it it groweth in Champion, and other ground. It is plans ted of young Settes, a fote and a halfe long, and well couered

with earth: a wet ground requireth a greater distance betwirt them, wherein you wall ose well to fet them fine fote afunder, in order like the winks byon a Dye: in the drie ground they

may be sette thicker together, pet Columella would have them fine fote diffant, for passing by them. There are two forts

of Willowes, one fort enduring for euer, called Offiar, feruing for making of Waskets, Chaptes, Hampers, and other Countrey stuffe: the other kinds growing with great and high bran-

ches, feruing for Rapes to Wines, or for Duicksets, or Cakes of Heogra, and is called Stake Willow: it is planted both of the twigge and of the Callie, but the Callie is the better, which must

Offiar.

belet in a moylt ground well digged, two fote and a halfe in the ground before it fpring, and when the twigges are bare, you must take them from the træ, when they be very day, otherwise they prosper not so well : these stakes or settes being taken from the poung Bocke, that hath beene once or twice cut, and in thicknesse as much as a mans arme, you must let in the ground thee fote, oz a fote and a halfe deepe, and fire fote alunder, laping god mould about them, fence them well, that there come no cattell to vill off the barke of them. After thee or foure vieres you may pull them, whereby they will grow and spread the better, and so you may continually cut them enery fifth, or fourth piere, whereof you may make Dets for planting of more, for the olde ones are not lo god to be occupied. The time of cutting of them, is from the fall of the leafe butill Appill, the Done encreasing, and in Welterly, or Southerly windes: for if you doe it, the winde bee ing in the Porth, we finde by experience they will not grow fo well: you must cut them cleane away, that the olde branches hurt not the young Springs: some thinke the young Willow to grow the better the nærer the ground, and the finother he is cut. The Oliar commonly groweth of his owne felfe, and is ale Forplanso planted of his Roddes, in watrie and marish grounds, the ting of earth railed bp, and land in furrowes: it is planted, and fprings most plentifully, where the earth is beaten by with the rage and ouer-flowings of the water: it ferueth as a fure defence for mas king of Bankes and Walles in Warthes, and that chiefely in March, the Mone encreasing: the Offar may be cut enery piere. or enery two piere if you will. Loe, here have you concerning Woods what needefullest are for our Countrymen to plant: for as for Mods of Cedar. Cipzelle, and other Arange Tres, it is not for our Hulvands to bulle themselves about: wet and rich grounds that are miete for Come, is also god to be planted with Dakes, 15 ech, Willow, and Poplar, although the Dake and the Bach refuse hillie, and lighter ground : Sandie, and bars raine grounds, are good for Wirch, Wanble, Broome, and Beath, as I have lufficiently laid before. Pow perhaps you mould have me proceede with Coppiffe Woods, that are continually to be feld.

THRA. I would: if it were no paine to you.

MARIVS

MARIVS. Coppiffe, og fale Tamod, were first brought op as Plinic fateth) by Qu. Martius, This kinde of Wood groweth come monly of his owne accord in Forrells, and watrie places: but all Mos are not for this purpole, for some Tres there are which if you cut and poule often, will face and ope, as the Alhe, the Juniper, the Cherrie, the Firre, the Apple, and the Pirrie: and some againe if they be not cut, will perith: the Uine requis reth perely cutting, the Dlive, the Dirtell, and the Pomegras nate, each other yeere. In cutting of them (as they are divers) for is their order : for the Dake, as he groweth flowly, fo is he not to be cut, befoze he be of feauen, oz eight pæres growth : and the never the ground you cut him, the better he growes, though. he may be polled feauen or eight fæte aboue the ground : The like is of the Bech, fauing that he may foner be cut. The great Millow, and the Poplar, are cut after one fort, as I theived a little befoze: though the Ofiar may be cut enery two piere, oz. enery pere. The Cheffnut may be feld enery feauenth pere. both fog fewell, og fog Mine faues. Tres are cut and pold funs date loaves, for either they are felde close by the ground, or the body is polde, when it comes to be of the bignette of a mans. arme or more, as the Willew is. Coppilled Woods are commonly fenered into fo many parcels, as may ferue for yearely fele ling, some still growing while others area felling, and because some of them grow faster then other some, every southath his place, and his feafon appointed. Some are felled cuery fourth pere, some enery fifth pere, as the Willow, the Poplar, the Alder, and the Birch : some, once in seaven piere, as the Cheffs nut, and some in moze, as the Dake. It remaineth, that I now thew you the manner of felling of timber, and what timber is mætest for euerr worke.

THRA. I have a great delire to heare what time is meetekt for felling of timber, which much availeth (as they say) to the long enduring of it: after, I would know what timber is meete for

enery purpole.

Marivs. The featon of felling, no boubt is to great purpole, whether it be for timber or fewell: for such Træs as are feld either in the Spring, or in Summer, though they seme dry without, are notwithstanding full of moraure, and wetnesse within.

within, which in burning, will never make god fire : and theres fore Coppille and fire wood, your best felling is in Winter : and for building, it is belt cutting of your trees in December, and Jamuarie, the Done being in the wane, from the twentie, to the thirty day. Det are there some that lay, they have found by experience, that Trees being cut in Januarie, are full of Sap : and therefore thinke it better either to cut them before, or after. Cato faith, the best time is about the twelfth of December, for the Mimber Mriethat beareth fruit, is belt in feason when his fede is ripe, and that which hath no feede, when it pilles it is time to cut. Such as are flatuco, ferning for Pillers of Churches or or ther round workes, much be cut when they fpring: Shingles, and fuch as the Batchet muft flatve, are to be cut betwirt midde Winter, and the beginning, in the Welterne Wines. Plinic al firmeth the best feafon for felling of timber, to be lubile the Done is in confunction with the Sunne. Vitruuius an excellent fellow in building, both will you to fell your timber from the beginning of Autumne, till the time that the Walterne windes begin to blow, the which windes begin to blow (as Plinic faith) about the firt Joes of Februarie: for in the Spring, all Tres are as it were with childe, and bend all their force to the putting out of their leafe, and their fruit. Since then they be Sappie, and not found, by the necellitie of the leafon, they are made by the reafon of their losenelle fable, and of no force: even as the bodies of knomen, after they have conceived, from their conception, till the time of their beliverance, are not judged to be found, or perfit, In like fort the Tres in Autumne, when the fruit and leaves bee gin to fall, the Rotes brawing from the earth their lufficient lus Menance, are reflored againe to their olde effate: befide, the force of the aire in Winter both fatten and make found the Tries, and therefore it is then thought the best time to fell your timber. The manner of cutting of it is this, first to cut it till you come to the middle of the pithe, and so to let it fand, that the Say that is in it, may bescend and drop out: so shall not the mosture within putrifie, noz corrupt the timber, but palle clearely away. Withen pou haue cutte it, and pou fie it date that it hath left daopping, pou may cut it downe, and fo thall you be fure it thall beft ferue pour turne. There are some Dasters in building, that thinke it bett 124

belt after you have sawne out your timber in bozdes, to lay them in water soz there or source dates, or if they be of Beech, soz a long ger time, eight or nine dates: and being ordered in this wise they shall neither (they say) be rotten, or worme eaten.

THR A. Pow let be heare what trees are best for timber.

MARIVS. There are divers and fundzie bics of timber: fuch as are barraine, are better then the fruitfull, excepting those forts where the male beareth, as the Cipreffe, and the Cornell: in all trees the parts that grow toward the Porth, are harder, and founder, which are almost covered with moste, as with a cloake against the colve: the worst are those that grow in has bowie and watrily places, the mallier and better during, are thep that grow against the Sunne: and therefore Theophrastus denis beth all Timber into thee foets, into clouen, fquared, and round, of which the clouen doe never rent noz coame : for the pith being bared, drieth by and dieth: they also endure long, because they have little moisture. The squared, and the round, or the subole timber, both coame and gape, specially the round, because it is fuller of pith, and therefore renteth and coameth in cuery place. And such high Trees as they ble for pillers and maine postes, they first rub over with Bullockes bung to season them, and to fucke out the fappe: for the moissure both alwaies coame fooner then the day, and day better to be faiune then the grane, except the Dake, and the Bore, that doe moze fill the teth of the Same, and relift it. Some againe refuse to be glued either with them. felues, oz any other, as the Dake, which cleaueth as soone to a Cone, as any wood, neither doe they well cleane, but to fuch as are of like nature: to be bozed, the grane is wozfer then the day: the light and the day, are harder to be cutte: for Bandes and Witthes, the Willow, the Broome, the Byrch, the Elme, the Poplar, the Uine, the cloven Riede, and the Wzamble are beit: the Hasell will also serve, but the first is the Willow: they have also a certaine hardnesse and fairenesse, mete to be bled in graven workes. Among those that serve for Timber, are most in vie the Firre, the Dake, the Pine, the Lard, the Escle, the Elme, Wills low, Cedar, Cypzeffe, the Bore, Byzch, Plane trie, Aldar, Afbe, Wilde Dake, Date tre, Bech, wilde Dline, Paffholme, Walnut; Paple, and Polly, and divers others, bled according to their nature.

nature, and the manner of the Tountrie where they grow. The Firre tree, whereof I have spoken befoze, gweth out Rozen, The Firre. and his timber is meet for divers workes, and greatly effermed for his height and bignette, whereof are made the Ship Halls, and Willers for houses: For it is very frong, and able to abide great force. It is bled also in building, for great Bates, and Doze postes: in fine, good for any building within, but not so well enduring without dozes, and very some set afire. They be fed (as Theophrastus saith) in the cloe time to make their Gallies and long Boates of Firre, for the lightnesse sake, and their Ships for burden , of Pine tros , and Dake. Df Dake, I haue spoken alittle before, the timber whereof is best, both for inward buildings, and for the weather, and also well enduring in the water : Hesiodus would have pokes made of Dke. The wilde Dke ferueth also well in water workes, so it bee not nere the Sea: for there it endureth not, by reason of the salte nelle : it will not be pierced with any Augur, except it be wet befoze: neither so will it luffer (as Plinie faith) any Paile Dais uen in it, to be plucked out againe.

The Mastholme, in Bricke weivog, a Tree well knowne The Maste in Italie, the Wood whereof is tough and frong, and of colour holme. like a darke red, mete (as Hesiodus saith) to serue for Plow hares: it may also bee made in Mainescot, and Paile borde. The Larsh Tree, in Italian Larice, in Dutch Lerchenbaura, was The Larsh in the olde time greatly efficemed about the Kiner Poc, and the Bulle of Veniz, not onely for the bitternelle of the Sappe, whereby (as Vitrumius faith) it is free from corruption and mozmes, but also for that it will take no fire, which Mathiolus fæmeth with his arguments to confute. It is good to fustaine great burdens, and Arong to relift any violence of weather, howbeit they say, it will rotte with salt water. The Escle is a kinde of Die , called in Latine Efclus , is some hurt with any moisture : the Elme, the Millow, and the Poplar, whereof I have Spoken before, will very some rotte and corrupt: they will ferue well enough within twie, and for making of Deoges. The Elme continueth very hard, and frong, and therefore is meete for the Thekes and Postes of Gates, and for Gates, for it will not bowe, noz warpe: but you must so dispose it, that the top may Tano.

fand downeward: It is met (as Hefiodus fayth) to make Ploto handles of. The Albe (as Theophrasius sayth) is of two sexts. the one tall, arong, white, and without knots, the other moze full of Sap, ruggedder and harder. The Bay leafe (as Plinic . fayth is a poylon to all kinde of Cattell: but herein he is deceiued, as it thould appeare by the likelineffe of the name, whose omage, is the young Tree, whose leaves, (as is certainely tried) killeth all fuch beatts as chain not the cud. Ale belides his manie fold vie other wayes, maketh the belt & fairest hogfemens staues. inhereof was made the staffe of Achillis, which Homer so greatly commendeth : it is also cut out in thinne bozdes. The Bech. whereof & have fpoken before, although it be brittle and tender, and may be fo cut in thin bordes, and bent, as he fiemeth to ferue onely for Cafkets, bores, and Coffers: his colour being bery faire, pet is he fure and truffie in bearing of weight, as in Areltres, for Carts or Waines. The barke of the Beech, was bled in olde time for bellels, to gather Grapes in, and other fruit, and also for Ernets, and bellels to dee facrifice withall: and therefore Curius fware, that he brought nothing away of all the spoile of his ence mies, but one poze Bechen Cruet, wherein hee might facrifice to his Gods. The Alder is a Tree with Arcight bodie, a foft and reddish wood, growing commonly in the watrie places, it is chiefly estemed for foundations, and in water workes, because it never rotteth lying in the water : and therefore it is greatly accounted of among the Menetians, for the foundations of their places, and houses: for being driven thicke in piles, it endureth for ever, and sustaineth a wonderfull weight. The rinde is pulled off in the Spring, and ferueth the Diar in his occupation: it hath like knots to the Cedar, to be cut and wroughtin. The Plane tre is but a Aranger, and a new come to Italie, brought thither onely for the commoditie of the Chadolo, keeping off the Sume in Sommer and letting it in, in Winter. There are some in Athens (as Plinic faith) inhole beanthes are 36. cubits in breoth: in Licyathere is one for greatnesse like a house, the shadow place bnderneath containing 81. fote in bignesse: the timber with his softnesse hath his vie but in water, as the Alder, but brier then the Gline, the Alhe, the Bulbery, and the Chery. The Linder, in Broke pillugia, and to in Italian, in Spanish Latera, in Dutch Lynden: this trie Theophrastes

Theophrastus counteth best for the workeman, by reason of his foftnette : it bresdeth no wormes, and hath betwirt the Barke and the Moo, funday little rindes, whereof they were wont in Plinies time to make Kopes & Withes. The Byzch is very beaufull and faire : the inner rinde of the Tra, called in Latine Liber, was bled in the olde time in fred of Paper to write bpon, and mas bound by in volumnes, whereof bokes had first the name of Libri: the twigs and bowes be fmall, and bending, bled to be carried before the Pagiffrate among the Romanes, at this day terrible to poze boyes in Scholes. The Cloer tra, called of Dioscorides ARTH, in Latine Sambucus, in Italian Sembuco, in Spanish Sauco, in French Suleau, in Dutch Hollenter, both of all other trees somest and cassifest grow, as experience, besides Theophrastus both teach bs, and though it be bery full of pitch, vet the wood is firong and good: it is hollowed to diners bles, and bery light Caucs are made of it. It is Arong and tough when it is dape, and being laid in water, the rinde commeth off as some as he is dape. The Cloer wood is very hard and Arong, and chiefely bled for Boare speares, the rote (as Plinic lapth) map be made in thin bozdes. The Figge tree is a tree very well knowen and fruitfuil, not very high, but somewhat thicke (as Theophrastus fapth) a cubite in compate, the tymber is trong, and vied for many purpoles, and fith it is loft, and holdeth fast whatforner Mickes in it, it is greatly bled in targets. Bore tree, in Italian Boxo, in Spanish Box, in French Bouys, in Dutch Bullbaum, an excellent Tree, and for his long latting, to be preferred before others. The Bore that turned is, (faith Virgill) Juniper, called both of Theophrastus and Dioscorides Agueis, because it deis neth away bermine: for with his favour, Toades and Snailes, Inniper. and fuch like, are drinen away, in Latine it is called luniperus, in Italian Ginipro,in Spanith Euebro,in French Geneura,in Dutch Wachoiter: it is very like to Cedar, but that it is not fo largenoz fo high, though in many places it groweth to a great height: the timber whereof well endureth a hundreth parcs. And therefore Hannibal commanced that the Temple end of Diana Mould be built with rafters and beames of Juniper, to the endit might continue. It also keepeth fire a long time, in somuch asit is faid, the soales of Juniper kindled, have kept fire a piere together: the.

#### I he lecond booke, entreating

The Ce- the Gumme whereof our Painters ble. The Ceder Ere, in der. Latine Cedrus, and almost like in other tongues: the hardnesse of this Timber is onely praised, and that it will never rotte, nor be worme eaten, but continue euer. Salomon built that noble Temple of God, at Dierufalem, of Cedar : It is bery mit for the building of Pailaces and Callles: the Cedar, the Cben, and the Dline træ, doe never thinke not coame. Images of Good and Saints were alwayes made of Tedar, because it ener pels beth a moissure, as though it sweat. Theophrastus writeth of Cedars in Syria, of foure elles and moze in compatte. The Kozen and Witch of the Cedar tre, is called in Breche nedleix. The Typzeffe, and the Pine, doe endure a long time without opther The Cyworme or rotting. Plinie commendeth Bates of foure bundzed preffe. The Pine, veres olde, The Pine (faith Theophrastus) is of a great frength. and very met for the straightnesse and handsomnesse, to be eme The Wal- ploped in building. The Walnut tre is a great tree, and comnut tree. monly knowne, whose Timber is much bled in sælings, and tas bles. Theophrastus writeth, that the Walnut tre before it fals leth, maketh a certaine kinde of nople, which it once happened in Antandro, the people being greatly afrayd, fled fodainely out of The wild the Bathes. The wilde Dline, in Latine Olcalter, in Italian Oliuc. Olive Saluatico, in Spanith Azenuche, in French Olive fauvage, in Dutch Wilder Olyboum, of his Wied is made the haftes and The Holly handels of wimbles and Augurs. Holme, of Holly, is a Tre whose leaves are full of prickles, round about the lease, and the barke, being both continually græne, the berries like the Croar: of the rinde and rotes they make Birdlime: the Wood is very hard, the branches will well winde and bowe, and therefore ferueth excellent well for quickset hedges: the Dutchmen call it The Ma- Hullen. The Maple, called by Theophrastus spenda uvoc, in Dutch Mailelterbaum, for the beautie of the wood is nert to the Cedar, ple. having a very fapze and pleasant grame, of the resemblance calied Peacockes taile: with this wood Tables are covered most gozgerous to the eyes, and other fine workes made, specially of the knobs or wens that grow out of it, called Bruscou and Molluscou: of which the knobs hath the fairer and the moze coursed graine. Molluscou is a moze open graine, and if so be it were of fufficient breadth for Tables, it were to be preferred before the

Cedar:

Cedar: now it is but seldome siene, and that in writing tables, or about bees. There is also a knob, or a wen, growing won the Alder, but a great deale moglethen that of the Papie. The Date The Date • Trie, whereof wee have spoken before, hath a very soft wood. tree. The Corke, his timber is tough: but now for a farewell, I will The thele you what workes enery timber is meet for. The Firre, the Corke. Dine, and the Cedar, ferue for Ships, for Balites: and Lighters What turn (as Theophrastus saith) are made of firre, for the lightnesse each timsake: Ships of burden, are made of Pine. Upon the French berferues. and Germanie leas, they chiefly ble Dkg about their Ships: the For Ships, felse same timber also serneth well for building of houses, specially the Cedar, and the Cypzelle. The Firre, the Poplar, the For houses Ally, and the Elme, are meet for the inner parts of the house, For waterbut they ferue not so well in the weather, as the Dke doth. For courses. connctances of water, the Alder, the Pine, and the Pitch tree, are best made in Pipes : being well concred in the earth, they last a wonderfull while, but if they lie uncouered, they somer perish: The Dke also, the Bech, and the Malnut, endure very well in the water. The Timber that longest endureth, is the Olive, the Dhe, the wilde Dhe, and the Pattholme: Foz as Plinic witnes feth, the Dlive hath beene fore to stand two hundred yeares, the like the Cedar, and the Cypzelle, ashath beine laid befoze: foz Kafters and Postive pieces, the Elme, and the Alhe, by reason of their length fernes best. The best to beare weight, is the Fir, For beat and the Larth, which howfoever you lay them, will neither bend, ring of noz bzeake, and neuer faile, till wozmes confumethem. Contras weight; riwife, the Difue tree, and the Dke, will give and bend, and so will the Poplar, the Willow, the Elme, and the Bysch. The Date (a worthic Tree) bendeth op against his burden. The Poplar on the other fide giveth at every light thing. The Elme, and the Athe, though flowly, are easely bent. These also are easely wound and bent: the Willow, the Bysch, the Brome, the Dke. and the Dken bordes. Shingles, to couer houses with all, are bell for Shinmade of Die, Bech, and such others as beare Patt: and also of gles. fuch as yield Kozen, as the Pine, and the Pitch tre: the Pitch trée, and the Die, serue best for Cups, Tankards, and such like. Those that are cut for Mainscot and thin bordes, the Cerre trie, the Terebinth, the Maple, the Bore, the Date, the Matholme, the -

the rote of the Cloer, and the Poplar. For the beautifying of For tables Mables, sexueth chiefely the Waple, the Ash, the Walnut, and Cometimes the Therie, and the Peare : but the pretiousest are the Cypreffe, and the Cedar Tables. For Areltres, Whisles, and . For Axel-Spoakes, serneth the Dke, the Paple, and the Bech. Virgill doth Precs. also appoint the Cedar, and the Cppzelle to this ble. Hereof thep make the Spoakes of Whieles, and hereof Carts and Waines. The felfe same Timber also serueth (as Hesiodus saith ) for Yokes and Plowes, Pokes, and Wagons : but that hee addeth hereunto the Alhe, the Cherp tree, and as the Alhe for his foftnelle, so the ployecs. Datholme for his hardnes. For Bullics, Wlimbles, Sheathes. and Pallets, the metelt are the wilde Pline, the Bore, the Palls holme, the Dolar, the Elme, the Albe, the Daple, and the Brame ble:but the greater fort of Pallets, or Bietles, and the Thieles, and Pullies for Wils, and Wels, are made of Pine, and Wale nut tre. Caro would have the Maines and Cartsmade of Holly. For Hafts Bay, and Clme. Hyginus would have the handles, or feales of and Han- Bulbandmens twies, made of Dogge-tree woo. Bolme, Cherry

dles.

For Tar- Theophrastus fayth) made of Willow, and Wine, for being pierced gets.

For chafing staues

they close the harder together: but the Willow is the lightest and therefore the better. The Rigge tre allo, and the Lindre, the Byzch, the Poplar, and the Elder, serue as well for Wargets. The best wood for Borfemens stanes is the Albe, and (as Virgill faith) for valiant staves, the Dirtill: the Ewe tro feructh (as the same Virgill witnesseth) for Bowes:

træ, and (which we have commonly in ble) Bore. Targets (as

The Ewe Tree for the Persian Bow they bend.

For Bates, they ble the Elme: for Wampers or Balkets, all fuch as eafily bend. For Cupplings & Rafters of houses, the Cime: and the Athe for thin bord: the best to cleane, the Firre, the Pope lar, and the 15 exch: for long during, and abiding the weather, and fanding in water, the Dke is commended, for which the other ferue not, faue for the water, the Bech, and the Alder : for fire, For water and light, are bled the Firre, the Pitch trie, and the Pine. The best coales are made of the fastest wood, a the Dke, and the wilde Die: but the finers rather defire the coales that are made of Dine trie, because they better abide the blowing, and die not so fast as the other. The Cherry tree, though the timber be of no great ble,

workes.

pet ferneth it well to make Coale of for the Braffe Forges, ber For Coacaule as some as the Bellowes leane, the fire ceaseth, and there is ling. little walt in it : but for building , the timber thereof is altoges ther buppofitable, because it both easily breake, a moulder away : but being in postes bnhewed, it serueth well enough within boze. The aptelt to take fire, is the figge tre, and the Dlive tre. The figge tre becaufeit is foft and open , the Dline trie, for the falinelle and the fatnelle. The Larly tre (as Vicruvius faith) relitteth the fire, though Mathiolus (as I faid befoze) gos eth about to disprove it. In all the bodies of trees, as of lively creatures, there is fainne, linewes; blod, fleft, beines, bones, and marrow: their fkin is their barke, of great ble among Country people: the veffels that they gather their Times, and other fruits in they make of the barke of Lindetrie, Firre, Willow, 15 ech, and Alber. The Corke hath the thickelt barke, which though he Thebarke lose, he cieth net, for so beneficiall hath nature bene to him, that because he is commonly spoiled of his barke, the hath given him tipo barkes. Of his barke, are made Dautofies, and Slippers, and Floates for fiching Dets, and Angles : if the barke be pulled off. the woo linkes: but the barke alwaies livinmeth. The next to the rinde in most trees, is the fat, the foftest and the most part of the tre, and most subsect to wormes : therefore it is commonly cut away. The lappe of the tree, is the bloo, which is not alike in all tres, for in the Figge treit is milkie, which ferueth as a Mennetfoz Cheele. In Cherietres,it is gummie: in Elmes, fale tith : in Apple tres, clammie and fat : in Ulines, and Peare tres matriff: they commonly fpring the best, whose Sappe is clane mieft. The inyce of the Wulberie, is fought for (as Plinie faith) of the Philitians. Pert to the fat, is the fleth, and nert to that the bone, the best part of the timber: all trees have not my great quantitie of this fat and flesh, for the Bore, the Cornell, and the Dline, haue neither fat, noz flelb, noz marroiv, and bery little blod : as neither the Seruite, and Alder , haue any bone, but both of them full of marrow. Redes for the most part have no flethatall : in fleth of tres, there are both beines and arteries, the betnes are broader, and fairer : the arteries, are onely in fuch tres as will cleave, by meanes of which arteries it commeth to paste, that the one end of a long beame lated to your eare, 38

if you do but fillip with your finger byon the other end, the found is brought forthwith to your eare, whereby it is knowne, when ther the piece be fraight and even or not. In some trees there are knots on the outlide, as the wenne, or the kernell in the flesh of man, in the which there is neither beine, noz arterie, a hard know of flesh being clong, and rolled by in it felfe : thefe are most of price in the Ceder, and the Papie. In some, the flesh is ouite without beines, having onely certaine (mall firings, and forth are thought to cleave belt: others, that have not their Erings, or are teries Ivill rather breake then cleave as the Wine, and the Dlive. will rather breaks then cleaus. The whole body of the Fig is flethie: as the body of the Pattholme, the Coznell, the wilde Dke, the Bulbery, and fuch others as have no pith, is all bony, The grains that runneth ouerthwart in the Birch, was taken (as Plinic fayth) in the olde time for his arteries.

THRA. There are other commodities believe the timber to

be gathered of thefe tras.

MARIVS. Wery true: (for as I fato before) of the species lar, the Die, the Cheffnuf, the Pine, and the Bech, these tres that grow in the Mods, belides their timber, bearefruit also, god and mete to be eaten. So of the Firres, the Bitch tres, and the Pines, we gather Rozen and Pitch, to our great commos ditie and gaine: as of the Dke, the Bech, the Cheffunt, the speci lar and the Pine, we have fruit both met for man, and also god for fixding of Hogs, and other Cattell. In time of dearth, both our forefathers, and we, have tried the good feruice that Acornes in bread hath done, yea, as Plinic and others have written, they were wont to be ferued in amongst fruit at mens tables. Peither is it buknowen what great gaines some countries get by Acoznes, Rozen and Pitch: The Gall also groweth byon these Acoznebearing Ares, whereof I have spoken before. Amongst all the træs out of which runneth Rozen, the Tarretræ, a kind of Pine, is fullest of sap, and softer then the Pitch, both met for are, and light, whose bordes we vie to burne in Rico of candels. The Ter dar sweateth out Rozen and Pitch, called Cedria. Pozeoner, Birdlime. of Tres, is Birdlime made, the best of the Terre tree, the Mattholme, and the Chestnut, specializin the Woodes about Sene, and nere the Sea lide, where they are carefully planted in

great plentie, by the Birdlime-makers : Foz they gather the berries from the trees, and boyle them till they breake, and after they have Camped them, they walh them in water, till all the flely fall away. Plinic affirmeth, that it groweth onely boon Bhes, Mattholme, Skaddes , Dine tres, and Firre. Birdime is alfo made of the rotes of certaine Trees, specially of the Bolly, whose rotes and barkes withall they gather, and lay them by in trens thes, covered with leaves in a very mout ground (some doe it in boung) and there they let them lie till they rot, then take they them out, and beat them, till they ware clammie, and after walk them in warme water, and make them by in balles with their hands: it is bled (beside other purposes) for the taking of Birds. Befives all this, there liveateth out of Eresa certaine Gomme knowen to all men, as of the Thery tree, the Plome tree, the Junis per, the Dlive, the Blackthorne, the Jute, and Almond. Dut of the Juniper, commeth vernilh: out of the Dirrhe, Stozar: out of Vernich. the white Poplar, Amber. Plinic waiteth, that Amber commeth Ambes. out of certaine Dine tres in the fat, as a Gumme doth from the the Cherie tre. And thus thefe things that I have here at your request declared, touching the order of Planting and fowing. I befeech you take in good worth : you heare my wife calleth be to Supper, and you le the hadow is ten fote long, therefore it is high time we goe.

THEA. Igiue you most harty thankes that you have thus friendly entertained mee in this your fayze Dzchard, with the

fwet description of these pleasant Hearbes and Eres.

IVLIA. Sir, your Supper is ready, I pray you make an end of your talke, and let the Gentleman come in here into this Arbour.

MARIVS. Comelet bs goe.

Soli Deo laus & gloria, per Christum Icsum.

The end of the second Booke.



### The third Booke:

Of Feeding, Breeding, and Curing of CATTELL.

HIPOCONYS. EVPHORBYS. HEDIO. EVMEYS.



Hat the beeding and feeding of Cattell is a part of Hulbandry, and neere toyned in kindred to the tilture of the ground, not onely appeareth by Virgill, the Prince of Poets, who hath in his Georgickes throughly let forth the order thereof, but also by the witnesse of the more auncient Philosophers, Xenophon, and Aristotle.

The like both our common experience at home baily teach bs: for albeit the trade of Willage and kieping of Cattell is divers, and the manner of occupying many times contrary the one to the other: as where the Graffer and Bzeder, requireth a ground full of Graffe and Pasture, the Busbandman on the other fide, a ground without Graffe, and well tilled: pet in thefe their divers defires, there appeareth a certaine fellowship e mutuall commos ditie redounding in their occupying of one the other, which Fundavius in Varro, doth feme by an apt comparison to proue: as in a couple of Shalmes, or Recorders, laith he, the one differethin found from the other, though the muficke a song be all one (the one founding the Treble, the other the Bate) in like manner may we terme the Graffers trade the treble, & the tillers occupation the base, following Dic archus, who reporteth, that at the beginning, menlined only by breding & feding of Cattell, not hauing as pet the skill of plowing and tilling the ground, not planting of tras. After

Afterwards in the lower degree, was found out the manner of tilling of the ground, and therefore beareth the bale to the feder, in that it is lower; as in a couple of if ecozoers, the bale to the treble. So this bling to keepe cattell for plowing, carriage, dunging of our ground & other commodities: and on the other live, to till the ground for finding & maintenance of our cattell, it comes to vaffesthat though the manner of occupying in tillage, and keeping of cattell be divers, get one of them fo ferueth the turne of the other, that as it femeth, they cannot well be afunder: for with out the fernice of Hopic and Dren, we can neither plow not bung our ground. Chaffe, fraw, and other offall of come is mice ter to be spent bpon the ground, then to be soid, both for the Farmers behofe, and the Lozds, and better bellowed bpon the bouthold cattell, then bpon the foreiners. Weldes, the dung of the cattell enricheth the ground, and bringeth great encreafe: and whereas there is no place (as Columella faith) but in the tiliage of the ground, they have as much neede of cattel, as men: the cattell ferue not onely for the tilling of the ground, but also to bring in come, to beare burdens, carry dung for the ground, and also for bzed, and increase of the Stocke : whereby they have their name Iumenta, of helping, because they helpe and further bs, either the our labours, by plowing or bearing Deither is it onely lufficient to nourish and bring by this kinde of great cattell called lumenta, but also the other letter fort of Beattes, as Shape, Swine, Woates : and of Fowles, Bale, Peacocks, Duckes, Bidgions, Hennes, Chickins, and other Poultrie, and things belonging to Husbanday, where with the good Husband, belide his owne lufter nance maketh great gayne: and if the ground be for it, and Pales fauourable, there ariseth oftentimes as great profit, as in sowe ing of Corne, and that with smaller charges. For a profe that fier bing is gainefull, the words Pecunia, money, and Peculium, fub. Stance, or riches, being both derined from the Latine name of cate tels, may very wel ferue: for in the old time they bled their cattell instead of money, and their common penalties and fines, taken in cattell, the greatest was thirtie Dren and two Shiepe, cucry Dre valued at b. s. bi. d. and enery Shape at bi. d. The finals lest was a Shiepe: the very like is pet observed with the noblest and warlikelt people, whose substance lyeth altogether in cattell. Cato

#### The third Booke,

Cato being once asked by what part of husbandapa man might

thineffe and antiquitie of Cattell

fonest be made riche made antivere, 15 y Grafing : and being al ked againe, which was he might get lufficient livelyhod ? he ans The wor-fwered, By meane Grafing. Poreover, that the worthpreffe and first oziginall of keping of Cattell is of greatelt antiquitie, and that the trade thereof hath alwayes, from the time of the Patris keeping of arks hitherto, beene counted most honest, as well the Scriptures, as prophane Diffories doe witnes, which kinde of life, how accept table it hath alwaies beene to God, by those that lived in the first world, both plainely appeare. The Scripture theweth how gras cioully the Lozd accepted the facrifice of Abel, a keeper and feeder of theep, beffdes, Seth, Noe, Abraham, Lot, Iacob, Iob, Amos. Holy and bieffed men are commended for keping and feding of Catteil, whereby attayning to great wealth, they luftayned them, feines, their Wines, their Children, and their huge Families. The Sonnes of lacob, when as they were demaunded by the Thing of Agypt what manner of life they ledde : made answere. That thep were feeders and kepers of Cattell. From which trade, Lot, Moles, Saul, and David, were by the will of God aduanced to the Crowne, as among the Gentiles the most and cient, and famous Princes were, some of them brought by by Shepheards, and Come Shepheards themselues. Romulus and Cirus, being mightie Emperours, were brought bp among Shep. heards. Besides, Valerius Maximus, Constantine, Probus, and Aurelianus, came all from the Dre tall, to the Imperiall Seate. Homer commendeth Vlilles his Swincherd, for his great balis ance and nobleneffe. That the valiant and nobleff people haue professed this trade, the Italians, Germanes, and the Switzers can tellifie, whole countries being now grown to moze velicacie then they were wont to be, were wont alwayes, when their dos ings were most famous, to glozie and baunt themselnes of this life, as at this day the godliett and wifelt doe. And therefore the ancient writers, as well Greekes, as Latines, doe count the chies fest wealth to be in the number of Shiepe, Cattell and Fruit : for which estimation the Cattell were supposed to be cladde in Golden Coates : whence sprang first the fable of the Golden Fleese of Colcos, which lason and his companions attempted to fetch, and of the Golden Apples, kept by the daughters of Atlas. 25elides

Befides, the fignes of Heaven, the Beas, Mountaines, and Countries, doe beare their name of Beaffs : among the Stars, the Kamme, the Bull: the Dountaine, Taurus : and the Sea, Bolphorus. Italie tooke his name of Calues. Mozequer the hees ping of Cattell is the worthier, in that it hath some resemblance of the Kate of a Governour: and therefore the Wronhets in their Dracles, and Poets in their berfes, doe oftentimes call laings and Princes by the names of Shepheards, and feeders of the peo. ple. Deathe Lord of the inhole world both call himselfe a Shep heard. Since it appeareth by these examples, of what worthinesse keeping of Cattell is, and how nere it is linked with tillage, 3 have here thought god, after the entreating of Tillage, Bardes ning, and Dechards, to describe as beiefely as I can, the oeder and manner of keeping of Cattell: which faill though Varro devideth onely into their parts . I have devided into foure. In the first part I put the great Cattell for burden, as Horfes, Alles, Hules, and Camels: in the fecond part, the leffe fort, as Sheepe, Goates, and Swine: in the third, such things as are belonging to the keeping and lafegard of Cattell, not for the profit thep peeld of themselues, but for their necessary ble, as Shepheards Dogs, and Cats: of thefe thee parts, in this third Booke, I entreat off: the fourth I referre to the fourth Boke. Hauing thus declared the contention betwirt keeping of Cattell, and Willage, with the morthineffe and antiquitie thereof, I meane now to profecute fuch things as are belonging to the same. I have brought in the the Dafters and kepers of enery kinde of Cattell, and refting themselues opon the holy day in the græne graffe, and the Some mers thadow, enery one declaring his thill and knowledge, according to his profession. The parties are, Euphorbius the Deats heard : Hippocomus the Horfe-keeper : Hedio the Shepheard. and Eumeus the Swine-heard.

EVPHOR. How firra Hippocomus, whither wander you? Doe you not know that it is holy day, a day to dance in, and make

merry at the Ale house ?

MIPPO. Guery day is holy day with lazy and flouthfull marchants: it lieth me boon to loke to my profit, to see inhether my Porses seed well, and that they take no harme. The paltures are so burnt with the heat of Summer, that Lam askaid sor want

#### The third Booke,

of meate, they will sieke to breake into other grounds, and so burt themselves.

EVPHOR. Why bring you not them into this field, where there is both a good grotten, and pretty Roze of graffe among the headgrouss.

HIPPO. Don persivade me not to the work.

EVPHOR. Come on then, bid Mastrix your boy bring hither your horses, and you your selfe, sit you downe bnder this Pasell, that will yield us both thadow and Puts, and we will send sor Eumeus, and Hedio, if you thinke god, and wee will passe away the time with such talke as we shall finde.

HIPPO. Agrad : Goe Maftrix, fetch hither the Worfes.

with the Totls and the Alles.

Of Horfes. EVPHOR. And you kumeus, and Hedio, bying your heards together, and come hither, enery man thall lay downe his thot, as they ble in the Tauernes, but without money or any charges, declaring at large what belongeth to the Cattell he keepeth. Pour Porles Hippocomus are yet in god plight. I saw the horses of our neighbour Agrius of late, which are leaner and barer a great way.

HIPPO. Peraduenture they have not so god loking buto, though they neither want pasture, not are much laboured, but mine on the other side, are continually laboured, and are not so well sed, but better loked but then my neighbours.

Evp Hor. Well, fince both time and place requireth it, 3 peay you, let be heare what you can say touching the charge and

loking to of Horles.

Mippo. Surely, I have not so much money to tell, but I may well beat leysure, and therefore since you are so earnest with me, I will not denie your request: although that of this matter, an honest and learned Bentleman of England, Waster Thomas Blunduile hath so throughly sysitten to his commendation, and be nest of his Countrie, as there cannot be more said: I reser you therefore wholy to him: notwithstanding briefely I will she we you my fancie. Among all other creatures that we be in our labour, the Horse may worthiest chalenge the chiefest place, as the noblest, the godliest, the necessariest, and the trustiest beast that were big in our service, and since her sexueth to so many vies, I should

House here bestow some time in his praise, and in declaring his service, but for this, another time wall better serve.

EVPHOR. We onely here desire to know the signes of a god, and an excellent Hopse, and the right manner of ordering

him.

HIPPO. First, you shall know that Horses serve for sundry purposes. Some, for the Ploto, the Cart, and the Packsaddle, others, for light Horses, Coursers, and Horses of service, others againe, for Stallions, and breeders: and therefore they must be chosen according to their service. Souldters, and men of Marre, beste a sierce Horse, couragious, swift, and well coloured. The Husbandman would have his Horse gentie, large bodied, and met for travell and burden. Potwithstanding, the breeding and kringsing by of them, is almost one: for in their breeding, wee hope to bring them all to the Saddle.

EVPHOR. What things are most to be considered in their

bréeding : one

HIPPO. De that hath a fancie to brieve Boule, mult firt proute himselfe of a good Race, and then of good ground, and plens tie of Pasture, which in other Cattell ought not to be so greats ly observed, but in Horses there must be speciall care thereof. And therefore, you mult first fix that your Stallion be of a goo race, well proportioned, and framed in enery point, and in like lost, the Pare. Some reckon their godneffe by their Countries, wherein they take for thiefe, the Benet of Spaine, the Courser of Paples, the Barmacian Horfe, the Peloponelian, the Turkey, and the Theilalian, but thefe ferue chiefely for running, and fivilts nette. For largenette of body, enduring of labour, and fitnette for brede, the belt are to be had out of Freefeland, Holland, and Artoys. The hape and proportion of the Dorle, ought headly to be confidered, for the very loke and countenance oftentimes declareth the godnelle of his nature. Therefore you must bilis gently confider his making, from the hele to the head, and firth pou must chiefely regard his feet: foz as in biefving of a house, it is in vaine to regard the beautie of the opper Komes, if the foundas tion be ruinous: so the Horse that is not found of his feet, will neis ther ferue the Souldioz, the Husbandman, noz the Travailer. In The pour loking bpon him therfore you must first consider his hofes, Hoses. \$ 4 that

### The third Booke,

that they be not tender and foft, but hard and found, round, and hollow, that the hollownesse may keepe his for from the ground, and founding ithe a Cimball (as Xenophon sayth) may declare the someonesse of the fofe, for the hoose that is full and fleshy,

is not to be liked, and the Horses that have such hooses doe rasily halt, wherefore divers commend a Horfe like the hofe of an Alle, the palternes next to the hafe, not twlong, as the Goat hath, for thaking off his river, and beeding of windgall, not to thost, for being hart in Kony ground. The legs and the thres, fith they are the standerds of the body, they ought to be euen, Braight, and found, not gouty, with much fleth and beines, for fuch as have their legges clad with much flesh and beines, they with great tournepes grow full of windgals, and fwellings, which will The legs, taufethem to halt, which legges at the first foling, are as long as ever they will bee, by reason whereof you may gette what The knees height the Porfe will be of, being pet a Colt. The knies muft be round, flexible, and small, and not bowing inward, nor fliffe, The thies, the thres large and well brawned, his break great and broad, his The breft. necke foft and broad, not hanging like a Goates, but bpright The neck, like a Tockes, and well reining, his Mane thicke, falling on the The mane right five, some like it better on the left, his head small and leane, The head, for a great and heavie head is a figne of a bull Jade, his mousell hort, his mouth wide, with large wrinckles, Kill playing with the Bit, and foming : as Virgill :

There stamping stands the steed, and foomy Bridell sierce he champs.

The Poels that hath a dry mouth is naught: his chickebones wouth. Would be even and small, for if they Kand tw farre asunder, he will be ill to be bridled, and the vneuennesse of the chickes will make him headstrong, and never to rayne well, but to thrust out his head ill sanouredly, his eyes great, bluddy, and kerry, and sinesse: shading out of his head, which is a signe of quickenesse, and lives linesse: hollow a little eyes are naught, and blacke, or pale stars in the eyes are to be dispaised: these faults are best spied in the night by candle light. Columella commende the blacke eyes. A wall eye is very god, such as they say Alexanders Bucephalus had. The eares The eares must be short, standing voright, a stirring, sor the eares.

be the tokens of a Hogses Komacke, which if they be great and hanging, are fignes of a Jade. The Posthails must be wide, the The better to receive apze, johich also declareth a lively courage: nosthrill. his houlders large and Araight, the Ades turning inward: the shoulder. ridge-bone ouer the Moulders being something high, gives the The chine Posseman a better seate, and the shoulders, and the rest of the body is Kronger knit together, ifit be double : his fides depe, well knit behinde, and comething bowing by, which both is bet. The sides. ter for the horseman, and a signe of agreat strength: his loynes, The loines the broader they be, the better he lifteth his forefæte, and follows eth with the hinder, and his paunch Mall the less appeare, which both disgraceth him, and burdeneth him: his belly mud be gaunt, The belly. his buttocks large, and full of fleth, antiverable to his brefts, The butand his fides: for if he be broad hanched, and well spred behinde, tocks. and goeth wide, his pace will be the furer, which we may perceive in our selves, if wie affaile to take by a thing from the ground Aryding, and not with your legges together, we take it by with more ease and Arength. His tayle would be long, brifflie, The tayle. and curled, the length whereof is not onely a beautie, but also a great commoditie to him to beate away flyes: yet some belight to have them curtagled, specially if they be broad buttockt. In fine, the whole body would be so framed, as it belarge, high, lively sprighted, and well truffed. Some Horsemen would haue their Horse to be limined after the proportion of viners beauts, as to have the head and legges of a Stagge, the eares and tayle of a Fare, the necke of a Swanne, the breft of a Lion, the buttocks of a Taoman, and the feete of an Affe. Virgill in his Georgickes both very Clarkely describe the tokens of agod Horse.

With head advanced high at first, the kingly Colt doth pace, His tender lims aloft he lifts, as well bescemes his race. (way, And foremost stil he goeth, & through the streme he makes his And ventures first the bridge, no suddain sound doth him afray. High crested is his necke, and eke his head is framed small, His belly gaunt, his backe is broad, and brested big withall. The bay is alwaies counted good, so likewise is the gray, The white and yellow worst of all, besides, if farre away There happen a noise, he stamps, and quiet cannot rest-But

## Thethird Booke,

But praunceth here and there, as if some spirit were in his breft. His eares he fets vpright, and from his nose the fierie flame Doth seeme to come, while as he snuffes, & snorteth at the same, Thicke is his mane, & on the right side down doth hanging fall, And double chinde, vpon his loynes a gutter runnes withall. He scraping stands, & making deep a hole, he pawes the ground, Whiles as a loud his horned hoofe, all hallowed seemes to sound.

Pou lie in how few verses the Poet hath expressed the properties of a god Horfe: other conditions there be for which they be liked, when they be pleasant, Arti lively, gentle, and tradable: Foz fuch, as Columella faith, will both better be taught, and better away with travell. Xenophon accounteth it a figne of a god Hople, if after the wearinesse of his tourney he læme to labour lustely : againe, we finde by experience, the better the Bosle is, the deeper he thrusts his head into the water when he drinketh, and that (being a Colt) Ariveth to out runne his fellowes in the pasture, and as Virgill saith, leape first into the water, and passeth bridges, not tarrying for any biher, nor fearing the Afe.

EVPH. Wihat colour in Pozles count you the best : The Poet læmeth to milike the white, which others againe, as I have funday times heard commend, specially in England, where they

are well accounted of, and most estimed.

HIP. Couching the colours, there are divers opinions, and of all colours, lightly you thall finde both god and bad: so that the colour is not fogreatly to be regarded, if he have other tokens cf. a god horfe, pet for beautie, and many times for godnes, we make choyle of colour. The best colours, as divers suppose, are there, The roane, the white liard, the bay, the fozell, the dunne, the daple gray, the ashy white, the fleabitten, the milke white, the black, and the from gray: the bay is most of price as far as I se at this day, and preferred by the Poet about the rest. The Frenchmen call the bay horse, Le bayari loyal, trusty Bayard: they are the better that have a Narre in the forehead, and the fote spotted a little with white: afozetime the daple gray, the flebitten, the mouledun, and the grisell were most estemed, and such as came nærest to them, as the Frongray, the bright forell, the browne bay. Onely Plato commendeth the milke white, that Virgill Disprayleth.

Others commend the blacke, specially if he have either southe Carrs in his forehead, or Arake dolvne his face, or hath any white bpon his fote, the coale blacke without any white, is altogether miliked, the fleasbitten Horse proueth alwaies god and notable in travell: the yellowith and the flucd, or pied horses are discommended almost of all men, notwithstanding either of them (if they be well marked) proue oftentimes well enough, specially the yellowith, if he have a blacke lift downe his backe from the necke to the taile. The Stallion therefore would be of one colour, The Stal-Arong bodied, well limmed, according to the proportion afore. The Marcs would likewife have the faid proportion of the Stal- The Mares tion, specially to have large bodies, faire and beautifult, of one co. lour, great bellied, with large and square breast and buttoches.

Age.

Ev P. Wihat Age count pou best foz bziede ?

HIP. The Stallion may goe with the Pares when his joynts and limbs be well knit and come to their growth, for if they be tw young, they get but weake and wearish Colts : some bee to let them goe together at two pieres olde, but their pieres olde is the better: the Stallion will serue you from that time till twentie pere, it hath beene fene that they have gotten Tolts till fortie, bes ing helped alittle in their bufinelle, for it is not pieres but Chill that abateth luthas Aristocle afore Plinic wrote. Det some thinke them not meete for brede before the fourth or fifth yere, in which space they fiede them lustely, to make them more couragious, for the luftier they be, the better Colts they bring, neither would they haue bider firteene Pares, noz aboue twenty, foz one Stallion. Herodorus writeth, that one Porse will well suffice twentie Pares, but the number ought not alwaies to be observed, but fometimes moze, sometimes leffe, according to the fate of the Horse, that he may the longer endure : a young Horse Mould not have aboue fiftiene or firtiene Parcs with him : the horics must be sometime senered for danger and hurting of themselnes, has uing in the meane time goo regard to the Kate of his body, for fome be weaker and fainter then others.

Evp H. What age doe you thinks belt for the Pare to gos

HIPPO. The Pares will conceine, at two pieres old, but ] to the Horse. take it the better not to lutter them till they be their pixres side, and

and like wife I thinke them not meete for Colts after tenne, for an olde Hare will alwaies bring a dull and heavie headed Jade: they goe with Foale an eleanen moneths, and Foale in the twelfth.

Evph. How can you know their age when you be doubts full of it?

HIP. That may you know diners mayes, but specially by the teth, and those teth that declare the age, the Brecians call yraproves, which teth when he loseth, he loseth both estimation and fale. Aristotle affirmeth, that a Bogse hath fortie teth, of which he catteth the thirtieth moneth after his foaling foure, two aboue, and two beneath: againe in the beginning of his fourth pere he caffeth like wife foure, two aboue, and two beneath, being full foure, and going bpon his fifth, he caffeth the rest, both aboue and beneath: fuch teth as come by againe be hollow: when he beginneth to be fire piere olde, the hollownesse of his first teeth is fild bp: in the seauenth piere all his teth are filled bp, and no hollownelle any longer to be læne: after which time, no indges ment of his age, by his teth, is any moze to be had: there are some that take bpon them to tell his age by the toynts of his taile, after the marke is out of his mouth. Palladius theines, that a Porfe when he begins to be olde, his temples ware hollow, his eichties gray, and his teeth long. Aristotle saith, that the age of all foure-foted beafts may be knowne by the fkinne of their James : foz if it be pulde bp and prefently let fall againe, if it fall fmoth, it declares a young beaff, if it lie in wainkles, it theweth he is olde. A Horse lineth commonly twenty yores, some thirtie, or fortie, and alfo to fiftie, as Arifforle faith, if he be of a goo disposition, and well dieted: it is said there have beene Dorses that have lived 75. peres, the Pare liveth not so long as the Horse, nor the Stallion, so long as the Horse that is suffered to runne amongst Pares : the Pare leaneth growing at fine pere old, and the Horle at fire, or feauen.

EVPH. What time thinke you best for conering of HIP. In the Spring, after the tivelith of Parch, I take to be the best, after the Spring in the rest of the yeare they are to be kept from the Horse, for hurting of the Horse: for the Ware after she hath conceived, suffers the Horse no more, but beates,

and ftrikes him with her heeles, yet in most places, they luffer their Stallions to runne with their Pares all the Summer long. and take it to be the best way for answering the Bares belire, for many times the Pare will not abide the Borfe till Summer time, or August, and the August Colt proues commonly very faire, although the Colts that are foaled in the Spring, are not to be defired, because they runne all the piere with their dammes in goo Paffure, and therefore it is belt at that time to put the Ware to the Horse, for these creatures specially, if you restraine them, are most enraged with last, whereof came at the first the name of that deadly poylon Hippomanes, because it firreth bp a fielhly affection, according to the burning defire of beaffs, which groweth in the forehead of the Tolt, of the quantitie of a Figge, and blacke, which the damme both ftraight, as some as the hath foaled, bite off: and if the be preuented, the neither loues the Colt, noz luffers him to lucke, neitheris it to be boubted, but that the Wares in Come Countries fo barne with luft, as though they have not the Worle, with their ofnne feruent befire, they conceine and bring forth after the manner of Byzdes, as the Poet nateth.

In furious lust the Mare exceedes all other bealts that be.

It hath beene said, that in Spaine Pares have conceaved with the winde, and brought by their Colts, but the Colts have not lived above three yeares. Aristocle writeth, that a Pares desire is quenched by shearing of her mane.

EVPH. What if the Pare will not take the Pople, is there

no meanes to make her :

HIPPO. There are that rub her taile with Sea Dnions, Pettels, or Padder, and so proudke her to lust, sometime a scurule Pade is put to her, who when he hath gotten her god will, is straight removed, and a better Porse put in place. If the Porse be to slowfull, his courage is stirred by by wiping her taile with a Spunge, and rubbing it about his Pose. If we would have a Porse Tolt, we knit the lest stone of the Porse with a corde: and sor a Pare the right. The like is to be observed almost in all other beasts.

EVPHOR. Homosten must the be Horsed after the take e Hip. They take not a like, some are sped at once, some twise, some

fome moze. It is faid, a Pare will not fuffer aboue fifteene times in the piece: being oftentimes latisfied with fewer. They mut be put to the Bogle at times, twife a day, in the morning, and at night : When they are fped, it appeareth by refusing, and Arthong at the Doile. They lay: that there is among thele beatts a great regard of kindzed, and that you can hardly force the Colt to Worfe the Damme : for profe whereof they report, that where as a certaine Bosse bieper did make his Bosse, by couering his cies, to couer his Damme, the cloath being puld away, when he faw what he had done, he ranne bpon his tieper, and Cew him : as some as the is covered, the Pare must out of hand be beaten, and forced to runne, leaf the lofe that the hath receined. Surely a Dare of all other beaffs, after her couering, doth runne either Southward, or Porthward, according as the bath conceived cie ther Hogle Colt, og Ware Colt: her colour also doth change and become bzighter, which when they perceine, they offer her the Dorle no more. Some after a felv dapes if they doubt her, offer the Worle againe, and if the refuse and Arthe (as I said befoze) they judge Wehath conceined.

E v P H O R. Put they be concred energ pere:

HIPPO. Such is our constoulnesse, as we læke to have them beare every yære: but if you will have god Colts, let your Pares goe to Posse but every other yære, so thall they well ans swere your desire, howbest the common vie is every pære.

monly, and thereofis engendzed the Poile, and foaled in the rif. moneth, as hall be said hereafter. Some say it is best to cut the mane of the Pare that thall be covered of the Aste, though others hold opinion that it hall abate her lust. The Pares that be with soale, must be well loked buto, and put in god pasture. And it through the colde Uninter, pasture be wanting, they must be kept in the house, and neither laboured nor iasted up and downe, nor suffered to take any cold, nor to be kept to many in a straight rome, for casting their Foales, sor all these inconveniences will harard their Foales, yet to travel them moderately, will do them rather god then harme, for two long rest will cause them to be restiffe, and so tyer somer. Anistotle writeth, that the Scythians did vise to travell their Pares great with soale, after the time they

began

began to firre, supposing their foaling thoulo be the easier, but goo heebe mult be taken, that their bellies benot hurt with any thing while they are with foale : but if so be the Ware be in dans ger, either in calling her Foale, or in foaling, the remedvis, Polipody Camped, mingled with warme water, and given with a borne : it is faid that the fmell of a Candell fnuffe, caufeth them to cast their foales: pou must enery piere ouer-fie pour Dares, and fuch as be enprofitable, or barraine, must be put away, for from their first foaling they are not to be kept about ten pieres, at which time they are lufty enough, and may be well fold, but fo wil they not be after : The young Foales are not to be handled with the hand, for they are burt with the lightest touch that may be. It muft be fiene buto, that if the Pare be houfed, there be rome enough for her and her foale, and that the place be warme es nough, that neither the cold harme it, noz the Damme ouer-lie it, and therefore the place must be well chosen, that is, neither to hot, not to colde, and afterwards by little, you must bring by the Colt: when it groweth to be something Arong, it mult be put to pasture with the ware, least the Ware receive burt by the ab. fence of it: for chiefely this Beatt of all others, most estemeth her poung, and if the be kept from it, taketh harme. The Foale that lackes his Damme, is often brought bp, of other Bares, that haue Colts: the Pare muft goe in bery god paffure, that the Colt map haue Roze of milke. Being fine moneths olde, when pou bring them into house, you must fiede them with barly flowie and branne: at a fwelue moneth olde, you must either put them into god patture, ozfiede them with Branne, Chaffe, and Day, Varro will not have you to weane them, till they be two yeres olde: and though I like not to some wearing, yet we ble commonly to weane them at fine or fire moneths old, and to let them runne in god pallure, which cultome proueth not amille. Pores ouer, as long as they runne with the Damme, you hall doe well to handle them now and then, least, when they be put from the Damme, they ware wilde: they mut be taught to be gentle, and not onely to abide a man, but to couet his companie, and not to be afraid at every Arange fight, nozat every noife, but to come to it. Kenophon faith, we mult (asmen) pronide Schwiemasters for our Chilozen, to like wife teachers foz our Hozles, & appoint how we will

will have them broken: for as their feruice is divers, fo must be their breaking. But hereof we shall speake more hereafter, when we entreate of Hozsemanship, and breaking of Hozses: onely now we will deale with those that sucke, and serve for the Plow. To make them gentler, the bridles, and other Borfe hars nelles mult be hanged by them, that they may the better be ac quainted with them, both with the fight, and the gingling. Pow when they be well tamed, and will fuffer to be handled, Varro would have you lay a Boy groueling byon them twife, or thrife, and after to beltrive them, and this he would have done, when they be than piere olde, for then they grow most, and begin to be great brawned. There be that thinke a Gorse may begin to be handled at a pere and a halfe old, and Varro, at thee pere old, when their provender is given them: but we ble commonly after two peres to labour them gently, first in harrowing of new plowed land, which is god both for their fote, and their pace, and also with plowing, fuch like erercise: whereby we ble to acquaint them with colde and heate, in drawing tegether. It mint be fiene to, that they be enen matched, least the Aronger spotle the weaker, while he decadery the rating and whipping. Horles take leffe harme with drawing then with bearing. Thus muft they be vied to reasonable trauell, by reason whereof, they will be the harder, and not so lightly take harme : but herein must be great discretion.

EVPH. What say you to Geldings : for in these parts we

ble Geldings moft.

Stables.

Hippo. They ferue for some purpose: but he that will have a god Gelving, must geld (as they say) a god Horse; they are cut at a yeare old and elder: I my selfe have cut them at sive yeare old, and sire yeare old: in cutting they lose their stomacke: you must loke that they be in god plight when you cut them; for as they are at their cutting, they commonly continue. The Hares also be to be spayed, but not often, and with great danger.

Evph. Wahat manner of Stable would you have, for I have sometimes heard, that the Stable is of great importance?

Hippo. Pour Stable must be built in a daye place, for weto ting the Porses hose, which you thall audide if you planke it with god Dken planks, or (which Xenophon would rather have you

ane)

doe) with round paning Kone, kieping it alwaies cleane from dung, and Kraw, and after laying freihlitter, so as they Kand hard, and lie soft. Xenophon would have the Stable so placed, as it may alwayes be in the Pakers eie, and to be lightsome, least the Porse being vsed to the darke, his eie dazell at the light. Some thinke they will be the gentler, if they be vsed to the light, a the fairer, if they have the Sun at the riking in Summer time: let as much aire come to them both day enight as you can. In Minter your Stable thould rather be warme, then hot, and therefore your Kable must Kand toward the South, but so as the windowes may open toward the Porth, which being kept thut in Winter, may be warme, and opened in Summer, you may let in the cole aire.

Eve H. The like we ble in our Dre ftalls.

HIPPO. Befides, whereas the bodies of cattell, have neede of rubbing, as well as mens bodies, for many times it both the Borle as much good to be froked downe the back with your hand, as to feed him. The Dozle is to be continually currico, in the moze ning at night, and after his labour. In currying of them we must Currying. begin at the head, and the necke : for it is a baine thing to make cleane the lower parts, and leave the other foule. It is god alfo to observe due times for his feeding, his watering, and his travell. Thus much of his exercife. Dow followeth to fpeake of his diet : Dyet. and because we have spoken befoze of his patture, we must also fap fomewhat of his other feding. The better a man mould haue his Horse to proue, the better must be loke to his meate for that goo feeding (the Country people fay)is a great helpe to the goonelle of the Porle. If the Porle be young (as I faid before of Colts) he must be fed with graffe, chaffe, and hap : if he be elder and met to trauaile, his foo mult bethe brier, as Chaffe, Barley, Dates, and Day. Thaffe both not fo well nourifh, by reason of the drinelle, but it kiepes the body in god plight : and because hard meate is hardelt of digettion , it is therefore to be given to those that labour. The fock or ftud, muft be paffared in large paffures and marthes, as also bpon mountaines, and hilly ground, but ever well watred, not day, rather champion then wody, and rather foft finiet graffe, then high and flaggy : if the pasture be to thest, they Coner weare their fozestieth, and are tothlette befoze their full age. And where as every kinde of creature is naturally moith, a Horse ought

ought chicaly (whether he be young, ozold) to be fed with mois pasture, for the better conservation of his naturall temperature. Some would have pou in no wife to gine your Hogle graffe in the Spring time, but in June, or the fall of the leafe : they would have you give them graffe with the delve byonit, and in the night feafon, Dates, Barly, and Day. Dowbett, in the colder Countries, in Germany, Frannce, England, where the paffure is berp god, they doubt not to Coluze their Borles with græne grate Scowring, and wiedes of the meddowes : and in the hotter Countries, they doe the like with greene blades of Wheat, or Barly. Some ble to give them Apples thared in pieces, to fcowe them withall, and thus much of scowzing of Hozses. Generally, suboscener will haue his Horle healthy, and able to endure travell, let him feo his Dorfe with Dates, mingled with chaffe or fraiv, fo thall be be temperately and well fed, and if to be labour much, give him the moze Dates. Dis meat muft be giuen him as fome thinke beff,in a low Manger, fet fo low, as they are forced to eate their meat with some difficulty of trauell, which they say is to make them bend their necks : by which erercife both the head and the necke grows eth bigger, and they will be the easier to be baibled : besides, they will be the Aronger, by reason of the hard fetting of the fore fæte. Dowbeit, in some places, they ble high fanding Pangers : after what fort foener they be, they must alwaies be kept cleane, and Prouender Well fwept befoze pou caft in their meate. A heir Prouender though divers Horfescourfers that live by fale of Horfe, Doe feede them with fooden Rie,02 Wean-meale fod, pampering them bp, that they may be the fairer to the eie : pet is it not good foo to las bour with. The best Prouender that is, is Dates, and for default of them, Barly : pon muft beware pou give them neither Wheat, Mie, og any day pulle: their Baouender muft be given them rather often, and little, then once oz thifea day in great poztions, leaff you glut them therewith : they are bled to be fed commonly fine times a day, when they fand in the Stable, keping an equall number of houres betweene the times: when they travell, you may give them meate felcomer, but in greater quantity, e if their iours nies be long, they must have Provender besides in the night, ale wates remembring (as I faid) that you glut them not. The better a Possefædeth, the better will he labour. Don must also beware

that you give him no provender, neither Dates nor Warly, after any great labour, till he be thozow colo:not with standing you may gine him a little hay to cole his mouth. The hay muft be front and well made, & thosowly thaken, before it be caft into the rache : and specially seene to, that there be no feathers of any fowle amongst it. If the hoale be berp hot after his labour, let him be well coue. red, and foftly walked till he becold, before you fet him bp : when he is let bp, litter him well, leaft the colones of the ground frike into him: in any wife wall him not when he is hot, but when he is through cold, water him, and wath him, wiping him day when you bring him in. Afthe Borfe forfake his meat, some ble to Campe Barlich & Depper, to give it him, rubbing his teth well, till his Comack come to him: fome wonid have a clout wet in falt water, tped upon a flick, thruft into his James. In watering, you muft loke well buto him, for (as Aristotle faith) beatts bo feb, are nous riched the better, if they be wel watred. Poples & Camels, Do lone belt to drinke a thick water, in fo much as if the water be cleare. they will trouble it with their feete : for the most part Bullocks againe delire a faire cleare water, a running. The fame Aristotle also affirmeth, that a horse may luffer thirst foure dayes without brink. Varro wils you to water your horfes twife a day, which ore ber we observe, that is once in the morning, againe in the afters none: but in Winter, if they drinke but once a day, it fufficeth : bee fore you water him, he must be well rubbed, and then led into the water by to the knees, specially if he be leane, if he be fat, he may go the deper. Potwith Canding there are some that hold opinion. they ought not to go to deperas their Cones touch the water, free stally if the horse be yong. After Barch, the spring, it is bery que to ride them by & downe in some River, which will exercise their leas, for the water orieth the legs, & restraineth the humors from falling bowne, and keepeth them from windgals: as some as they come from the water, you must with a little straw wipe them cleane, for the damp of the stable causeth instamation in the horses leas that be wet. The water (according to Vegetius his minde) mould be cleare, & fpzinging, other like it a little running & troubs led in a clay ground: for this water, by reason of the thickness fatnes, both better nourify and feede the hogle, then the fwift running Freame: pet those horses that are bled to the fwift & cleare rivers, are

fore it would be well considered how the horse hath beine accustomed: the colder the waters are, the less they noursh, the desper a horse drinkes, the fatter he proves: and therefore some Horse-coursers vic to wash their horses mouthes, first with waster, and after to rub them with salt, to give them an appetite to their meate and their drinke.

Evphor. I pray you let be heare some remedies for horses discases, for (as Aristotle saith) a horse hath as many diseases as

a man.

HIP. As touching difeafes in a Dogle, it is better to preuent them by good heede taking, and (as Vegerius faith) to be moze cares full in keeping a horse healthy, then when he is licke to cure him: which health you had continue with cafe, if you will observe those things touching his opet, his fable, and his labour, that I have told pon of before. Tholoeuer will have a god horle, and keps him in god effate, muft oftentimes fe him, como to him, handle him and Aroke him: for that both makes him gentle, and gives him a fapze coat: and be Itill minofull of the old prouerbe, The Maifters eve maketha fatte horfe : and to be thoat, to have him fo Will in his light, as he rather want his owne meat, than his horse Mould : for he that negledeth his horfe, negledeth himfelfe. To let him have moderate evercife, and to ride him now and them(if the weather be faire) into the field, will doe him great god : the morning is better to labour him in then the evening, neither mult pou in Winter or in Summer over labour him : for being in a Iweat, and after taking cold, he falleth into dangerous offeales. And therefore remember what I faid, that wher focuer pou have laboured him or ridden him, be fure you couer him with some cloth, and walke him foftly, that he may be colo, before he either be luffered to eate or drinke: when he is cold, he map be led to the water and walled : foas when you bring him into the Cable, you litter him well, and throughly rub him, and fo give him meat. 3f he be overtravelled, the onely remedie is rest, and after his sweat ting, to walhhis mouth in Summer with water and bineger, in Winter with brine: for the neglecting of these things, bath beene the bestruction of many a good horse. Also, to poince into his mouth Wine and Dele, in Sammer, cold, in Winter, warme, (ag

(as Vegetius teacheth ) and as wie finde by experience, is very goo : forit is commonly læne, that a tyred Dorle (if necessitie forceth a further fourney) with polyring in a quart of god wine. will travell luftilie. Dou must not suffer vour borse to brinke as ter his journey, till he be cold : howbett, if he flueate not twers treamely, and be ridden fone after, it is not fo dangerous : it is farre better to let him thirst, then to gine him cold water if he be bot. If a horse have long reled, he is not to be tranailed byon the Sudden, either in gallopping, or long fourney, but to be laboured faire and loftly at the first. A horse that is wearie or tyred, will be wonderfully refreshed, so as it would fame he had never bane travailed, if he map wallow himselfe either in the Stable, oz other Daie place out of the winde and raine : and therefore Xenophon would have neere buto enery fable a place meet for their wallow, ing wherein after their fournics, they may tumble themselucs: for in fo doing, they thew they are in health, a refresh themselves. Dou mult loke diligently that they be well loked to at night, and that after their (weat, they be well rubbed and curryed, and that they be not disquieted when they should reft. In winter they would be clothed with wollen, for taking of cold, and in Summer with Canuas, to kepethem from flyes. Pou muft beware that you tourney them not long without staling, but after you have tras uailed an houre, or fuch a thing, provoke them to stale (by ris bing them out of the may ) into some place where Shape have dunged, oz into some high graffe, ferne oz Aubble, which ozder was continually observed by the belt dyeter of horses, that ever 3 knew in England, one Henry King, who hauing charge of that most worthy Bentlemans horfes, Sir Thomas Chalenour, carried a faire company of Beldings from London to the Court of Spaine, who not with standing their long fourney through France, & the painefull passage of the Piremies, by the failfull diligence of their keper, came thither in as good plight as they came out of Eng. land. And if fo be pon fee he cannot fale, og faleth with paine, pou must bathe him with bath appointed for cold, that is, Dyle mings led with Wine powerd boon his lopnes : also a Louse put into his yard, or lope put into his fundament, hath biene feene to helpe him. If this bo nothelpe, you must squirt in honey boyled thin, with falt into his pard. Some would have the licour of the lime

lime Birumen fquirted in : Eliomus writeth, that the Gorfe that cannot Stale, is prefently remedied, if to be a Paid ftrike him byon the face with her girdell, the feete (which is the chiefelt matter in a Horse) pou thall alwaics keepe sound: if as 3 tolde you afore, year Stable be well paned with round ffone, or well planked and hept cleane: which done, you must stop his hoses with Coine dung, or for want thereof with horse dung watred, and his logges must be often rubbed with a strawne wifpe. To cause the hofe to grow, or to repaire the broken hofe, take of Garlieke heads feauen ounces, of Dearbe-grace thee handfuls, of Allome beaten and fifted, feauen ounces, of Barrolves greafe very olde tivo pounds, mingle all these with a handfull of Alles bung, boile them, and annoint the hofes therewith. After their tourney, fix you fearth their feete well , fuffering no gravell , noz filth tores maine therein, you hall well refresh their hofes with the oints ment afore faid. The joynts, or the pasternes, would be well batheo after their travel with warme wine, or an egge or two would be thank into their hwies, the legges themselues would be washed with warme Bere, og fome like bath. If the Bogle thauft out one of his feete, and frand not even, it is a ligne of some fault in the hafe: the Bosle halteth, either by reason of the spoiling of his hofe in tourney, or by ill hoing, or by wholfome hamors falling downe by low franding in the Stable, or by windgals. If the fault be in the Choing, Arthe byon the head of enery naile with the Pammer, and when you perceive him to Mainke, plucke out that naile, or power bpon the hofe coide water, and that naile that is first bry, plackit out: if it matter, fquefeit out, and power in Witch well fodden with old Swines greafe : you must also specify oven his hofe below, that the matter (if it be full of corruption) may descend, least it breake out about the hose, and so cause a longer time of healing. The fignes of it be, if he hold by his fot, which if you do pare him to the quicke, and tohere you perceins it to loke blacke, openit, and let out the matter: if he be hurt inward, and fandeth but on his toe, it theweth the fault to be in his hofe : but if he tread equally with his fote, it declares the gricke to be some other where, then in his hofe: if in his haulting he bewe not his founts, it is a figure the fore is in the founts. For all halting genes rally, mingle Hemp with the white of an egge, and stop the fote withall,

withall, and after clap on the those: if it be a wound, put therein the poluder of Dyfferibels, and Herdegreafe to day it by, or the white of an egge, with Sote and Uinegar. The Cratches (as they commonly call them) is a malady that happeneth betwirt the Walternes and the Dofe, in the manner of a feab, and is ingene beed of the damps of the Stable, while he ftandeth wet legged : the remedy whereof, is all one with the paines, which is like wife a forance breeding about the joynts, breaking the fainne, and mate tring : taking away the haire, wall the fore with warme Bere, or with the broath wherein is fodden Ballomes, Brimffone, and Sheepes fuet, which muft be bound about the fore place morning and evening, or elle Shapes fuet, Coates fuet, Swines greafe, Merdegreale, and quicke Brimftone, Bolearmoniack, and Sope, boiled and made in ointment, where with you thall anoint the fore twife a day, walking it first with warme Wline, and after it is dried amoint it, in the meane time kope him out of the water: the Lies of wine is also sometime vsed in the curing of the crats ches. Windgals, which are fwellings, and rifings in the legs, are cured with cutting, and burning: some thinke they may be restrais ned and cured, by riding the Posle oftentimes by and downein some colde and swift streame, also by washing his legges with Salt, Tinegar, Swines, greafe, and Dyle, waapping them by cers taine dayes, 02 by launcing, 02 scarifying they are cured: the outs ward fores are healed by burning. If the backe be wrung with the Saddell, or otherwise hurt that it swell, Vegetius would have pouto feeth Onions in water, & when they be so hot as the Horse may fuffer, to lay them byon the fore, and binde them faft, which will allmage the swelling in one night. Item, Salt beaten and medled with Ainegar, putting to it the polke of an egge, layed bps on the swelling, will heale it : besides, Arssmart stamped and laid to, both presently allwage the swelling. If the backe be galled, walh it with Beere and Butter, or cast bpon it the powder of a Lome wall. There is a difease that is common in Horses, called the Times, which if he have, turne downe his eare, and launce the fore at the rote of the eare, and take out the matter : but take god hede you cut not the beine that lieth a little aboue. If a Horse have beine let op hot after his tourney, and in his heate hath beine watred, or taken colde, which the Germanes call Verfaugen. 112 30 4

in English Foundzed, oz in some places Fraide: the remedie is the fain of a Wiezell cut in small pieces, fresh butter, a rotten egge and vinegar mingled together, and powied into the horse with a home: after which, let him fand conered with a wet cloth till he ware hot. A prefent, and affured cure for this difeale, 3 learned not long agone, of that hone ff, wife, and valiant Gentle mad, Captaine Nicholas Malbee, in whom there wanteth nos thing belonging to a worthie Soulvier: his medicine was this. Barter each legge immediately one handfull aboue the knee with a lift, god and hard, and then walke him to chafe him, and put him in a heat, and being somewhat warmed, let him bloud in both the breft vaines, & and in the vaines of the hinder legges, betweene the hofe and the pastozne, reserving the bloud to make a charge withall, in this manner: Take of that bloud two quartes, and of wheat meale, as it commeth from the Will, halfe a pecke, and fire egges, theis and all of Bolearmontacke halfe a pound of Sanguis Draconis halfe a quarterne, and a quart of frong bineger: mingle them all together, and charge all his thoulders, breft, backe, loynes, and forelegs therewith, and walke him byon some hard ground : the houres after, lead him into the fable, and let him Kand tyed two houres to the racke, without meat or drinke, and walke him then two oz thee houres moze, and then give him a little warme water, with ground Paltin it, and after a little hay and prouender, then walke him againe open the hardest ground you can get: you shall rive him the next day a mile of two softly, e so from day to day butill he be well, which will be within their or foure dates. Remember to let him frand the first day after his first walking, two houres in water op to the belly: this medicine is infallible. The collicke, or paine in the belly is thought will be eased in a horse or Quie, onely with the sight of a Ducke, or any water foinle. To kiepe pour horfe from flyes, it is god to walh. him over with the inpre of the leaves of the Gourd, in the midt of Summer. Pany times hogies are troubled with wormes, 02 bots, which you Mail perceive, if they cast their loke bpon their belly, if they wallow oftentimes, and Arike their belly with their fote: the comedie is Harts-hozne, Sauine beaten, and given him with a little Minegar in a horne. Columella would have you rake the horse with your hand, and after that you have plucked

out the dung, to walh his fundament with Sea water, or Brine. Brasanolus in his Commentary opon Hippocrates, declareth how he cured the Duke of Ferars horses, being in great danger with wormes, by giuing them Duickhluer, and Scordium, oz Mater-Germander, when no other medicines would helpe. The Rhewme, or distillation, maketh a Horse stothfull, dull, and faint, pet will he be led, and rioden, and moderate labour is not amille for him, let him drinke warme water with Wheat bran: the more filth he voydes at the mouth, the better will it bee for him. There are funday biseases thought bucureable, which if the Porfe had, and was fold, by the olde Lawes he was to be turned backe againe, except the bargaine were otherwise: of which number, are the broken winded, the lunaticke, and the mangines, called the Farcine, which difeafeif it come once to the Cones, is thought bucurable. To this they adde the through Splent : some thinke the broken winded is not to be cured, because it is like to the consumption of the lungs in a man, yet some hope of recovery there is, if it be taken in time : for letting of blod in dry diseases, is against reason. But you may ans nount the whole body with Wine and Dyle, mingled together and warmed, and curry him against the hayze till he sweat, and gine him this drinke inward from the first day : the tuyce of Pilan, Sinines greale clarified, and Amylum, in nein sweet wine, which being boyled together, you may give it him with a home to open his pipes, and fet him so as hee stand warme. The lunatike eyes are cured by letting him blood in the temple beines, bathing the eyes on the outlide with some warme bathe, and putting into them some Arong water certaine dayes, till they be whole: For the manginette, take the wormes called Cantharides, beating them, and mingle with them a little Merdes greafe, and so annoynt him with it, warming the body of the Porce with a fire panne. Dthers vie to walhhim with warms water twife a day, and after to rubbe him with Salt fooden in water, till the matter come out. Aboue all other, they say it ere relleth in the beginning to annount him with the fat of a Seale: if it have runne long, you mult ble Aronger medicines, as Lime, Bzimftone, Marre, old Swines greafe, of each a like quantitie, boyled together, and with a little Dyle made in an symment,

they ble to rub it also with the Sote of a Caldzon. Against mas ny difeates both of Worles, and Bullocks, they ble the rote of the Wearbe called Black Elleboze, of some Bearefote, oz others Setterwort, which they thrust in the brest of a beatt, betwirt the fleth and the fkin, making a hole before with a 15 odkin. Against all difeates of Horles, Vegetius commendeth this Dedicine as the chiefelt. Centozie, Mozmelwod, Dogge Fenell, Wilde Time, Sagapen, Betonie, Sarifrage, Aristolochia rounda, take of each a like, beate them small, and fift them, and if the Woose have an ache, give it him with water, if he be ferme, with good frong Mine. The old Busbands would not fuffer their Bogfesto be let bloud, but bpon great necessitie, least being bled to it, if it Could at any time be omitted, it Could brede some disease: and therefore in very young Horses, and such as be healthy, it is best not to let them bloud, but in the rose of the mouth: for those that be come to their full age, you may let them bloud before pour put them to paffure, but beware you beare a fleddy hand, and frike them not two depe. Deldings you thall not nied to let bloud. The Horles of Barbary (as they fay) neuer niede any medicine.

EVPHOR. Pou haue spoken enough of Hozses, it is time

you fay fomething of Affes.

HIP. It is greatly out of order, but fince you will needs have me so to doe, I will not Ricke with you to say what I can therein, that each of you may doe the like in his charge. Alles are come monly kept, yet not to be little let by, because of their funday come modities, and the hardnesse of their feeding : for this pore beate contents himselfe with what meat so ever you give him, Thilles, Bayers, Stalkes, Chaffe, (whereof enery Countrey hath ftoze) is god meat with him: belides he may belt abide the ill loking tw of a negligent keeper, and able to luftaine blomes, labour, buns ger and thirft, being feldome or never ficke : and therefore of all other Cattell longest endureth: foz being a beast nothing charges oble, he serueth for a number of necessarie vies: in carrying of burdens, he is comparable to the Hogle, he draweth the Cart (fo the load be not unreasonable) for grinding in the Will be passeth all others: therefore in the Country the Alle is most neofull for carrying of things to the Warket, and Corne to the Will. Ægypt and Barbary (where the ground is very light) they have

Affes.

also their ble in plowing : and the fine Ladics of the Countrep Doe ride byon Alles richly furnithed : yea, they be bery apt to be taught, so as at this day in Alcayre, you hall have them Daunce very mannerly, and keepe measure with their Musitian. Varro maketh mention of two forts: one wilde, whereof in Phrygia and Lycaonia there are great froze: the wilde Affes that are tamed, are palling god, specially for brede, & they are easilie bres ken : the other is tame, of which I meane to speake. The bett are brought out of Arcadia, (although Varro femes to commend the briede of Italy for godnette. ) He that will have a briede of Alles, muft have the Wale and Female both of reasonable age, large bodyed, found, and of a good kinde : the Pale muft be at the least their piere olde : for from their, till they be tenne, thep be fit for breeding : they bring forth their Colts sometimes at two peres and a halfe, but thee yeres is the best age : the fes male goeth as long with her burden as the Ware, and dischargeth in all respects as the both : but the will not very well retaine. except the be forced immediately after the horfing to run about: the feldome bringeth forth two. When the foaleth, the gets her into some darke place, and keepes her felfe from being fæne. They will beare all their life time, which (as Aristotle faith) is thirtie pieces: they are put to the horse a little before the tenth of June, and beare every other piere: they bring forth their Foale at the twelve moneth. While they be with Foale, they must not be greatly laboured, for hazarding their Foale: the Wale must never be tole, for he is as letcherous as the Diuell, and by rest will ware naught. The Colt is suffered to run with the Dam the first piere, and the next is gently tyed up with her, onely in the night times: the third yeare they are broken, according to their vie. The Dam both wonderfully loue her young, fo much, as the will not flicke to come thosow the fire to it : but the water thee dare in no wife come nere, no, not touch it with her fote, neither will the drinke in any Arange water, but where theis vied to be matred, and so as the may goe and stand dry fote. They des light to be lodged in widersomes, and are troubled with feares full dreames in their fleepes, whereat they so pawe with their legges, that if they lye nice any hard thing, they hurt their fixte: in deinking, the scarsely touch the water with their lippes, (ag (as it is thought) for feare of wetting their godly eares, whose hadowes they see in their drinking: no bease can worse away with cold then this. If your Asseshalt at any time, you hall thus remedie them, walh all the foote with warme water, and after ward make them cleane with a sharpe knife, which when you have done, take old chamber lye, as hot as may be, and melt there in Goates suet: or if you have not that, Dre tallow, and anoint all the see till they be whole.

EVPHOR. They lay, that betwirt an Alle, and a Hare, is gotten the Polle, as a third kinde, of two lundry kindes, neither

resembling the father, not the mother.

Moiles.

HIPPO. It is berp true: as of the the Affe, and the Boafe is engendeed the the Doile, but altogether, Aubborne, and bureas fonable dull. Also of the Dare, and the wilde Affe, being broken are beed Doiles that run palling fwiftly, and are wonderfull hard hoofed, but rugged of their body, and mil hienous fromached, pet easie to be handled : the Wares for breed, must not be bnder foure peres : not about ten: they are foaled in the twelfth mos neth, as Horfes and Affes are, as Ariffotle faith : but Columella fayth, their foaling time is not befoze the thirtienth moneth. The Female conceaueth (as experience teacheth) affuredly after the feauenth day: the Pale Doth neuer better hozle, then when he is most tyzed. She that conceaneth not befoze thee hath cast her colts teth, is taken to be barren, as the likewife that takes not at the first hozsing. Those that are gotten betwirt a Posse and an Alle in olde time, were called peyards, and such as were brought forth betwirt an Alle and a Pare, they called Poiles. The Poiles themselves (they say) doe never ingender: and if at any time they bid, it was taken for monttrous, accounting the cause of their barrennesse, the contrarietie of their kindes: which matter a long time troubled both Aristotle, and the rest of the Philosophers. Though Aristotle hath other where witten, that Moiles doe both ingender, and bring forth: and with him agrieth Theophrastus, affirming, that in Capadocia they doccommonly bring forth, and ingender of themselves. The like both Varro, and before him Dionilyus, and Mago affirme, that the breeding of Doiles in the countries of Afficke, is neither montrous, noz geazon, but as common as our briede of Horfes: but the Poile

is both fayzer, and better flomached, that is begotten of an Affe and a Mare. The Stallion that you meane to have for your race of Poiles, must be as fagze as you can get, having onely this regard, that he be large of body, bigge necked, broad, and frong ribbed, large, and bratune breffed, his thighes full of fpnowes, and the legges well knit, of colour blacke and spotted : for Alles (though they be commonly bunne) yet that colour agreeth not well with a Boile : some say, that what colour pou would have pour Dople to be, with that coloured cloake you must couer your Affe. The Affe fo proportioned (as I have declared) that you meane to appoint for your Stallion, you must straight wayes take from his damme, and put him to some Dare that hath a Colt lucking of her : you shall castly deceive the Dare, by letting her in a darke place, remouing her ofone Coltscom her, and putting to her in feed thereof the Alles Tolt, which the will nurse as her owne. Afterwards, when the Ware hath biene bled to it a tenne dapes, thee will continually after that time give it fucke. The Alle being in this order brought bp, will better acquaint hims felfe with the Pare: sometimes though he be sucked onely with his ofone damme, being brought by when he is young amongs Bares, will well enough kepecompany with them (as Columella faith: ) but our Alles are of themselves desirous enough of the Pares, that they neede not to be trained to the matter : fogit is a wonderfull coltiff beaff, & burgafonably weaponed. De must not be leffe then their yieres old when he conereth your Pares, which mult be in the Spring time, when you may well fiede him with graffe, and god fore of Dates, and Barly:neither muft you put him to a young Bare, for if the haue not beine horfed before, the will so beat her weer, that the will make him like the worse as long as he lineth: for remedy whereof, you must at the first put to the Pare a wilder Alle, that may we her before, but not suffred to horse her, and when you perceive that the is horsing, away with the rackall, and put to your Stallion. A place fit for this purpose, the Countrie people (as Columella faith) were wont to have, which they called a Frame, or a Brake, with two railes on both Ades, and a little distance betwiene, that the Pare cannot frine, nor turne from the Porfe, the lower part enclosed, and the Pare Canding low, so the Ace may the better leave her , having the physical

byper ground for his helpe, which when the hath conceaned, and at the twelue moneths end brought torth, the yeare after the must be suffered to run emptie, that the may the better bring by her colt. The the Poile (being a twelue moneth old) must be taken from the Damme, and let run by pountaines, or wilde places, for the hardening of his hofes, and the better enduring of labour, for the male is the better for burden, and the female the quicker and lived lier: both the kindes doe travell well, and till the ground, if the plowman be not bureasonable, or the ground so stiffe, as it require the a draught of Dren, or Porse. They will leave striking and kicking, if you be to give them Thine, (as Plinic report teth,) who likewise writeth, that a Poile will live foure score yeares.

EVPHOR. Since you have begun with travelling beaus,

what can you say of the Camell ?

HIPPO. The Tamell is chiefely bled in the Galf parts, which some suppose to be the serviceablest cattell for man that is, and as it were thereunto onely framed, for he is bumbaft bpon the backe for bearing of burdens. Alfo, he hath foure knies, whereas the Hogle, the Alle, and such others, have but two : for his hinder legges bolv forward as a mans knædoth, wherewith hee knæleth to receive his burden. There are two kindes of them, the Bactrian, and the Arabian : the Bactrian haue two bunches bpon their backes, and the Arabian but one, and the other on their breft to leane boon, both fortes of them lacke their teth aboue, as the bullocke doth: they all serve in those Countries for burden, and to carry men in the warres: they are as fwift as horfes, but some a great deale moze then others: neither will they breake their pace, not carry more burdens then they are bled to: they beare a naturall hatred to the horse: and can forbeare drinke for foure dayes: hie dainkes when he may, both for that is past, and to come, troubling the water befoze with his fot, otherwise hee velighteth not in it : hee is fedde beside his Pasture, and fuch things as hee gets in the Waod, with Dates of Barly, and Salt: he engenozeth backeward as the Glephants, Tygars, Ly. ons, Connies, and luch other, whose instruments grow backer ward : when they meane to goe to rut, they fæke the secretest and defertest places that may be: neither may a man at any time

come nere them, without great danger. They goe with young a tivelne moneth, and are mete for brede at three geres old, and after a piere they conceave againe, they beare but one at once, as · Clephants, and other great beaftes oce : they give milke till they be great. Againe, (as Aristotle fapth ) Dydimus in his bokcs of Husbander writeth, that the Camell hath a regard to his blod, as the Porfe hath, and lieth neither with mother, nor fifter. And the female Camell of Bactria, feeding bpon the Mountaines as mongst the wilde Boarcs, is oftentimes breamed of the Boarc, and conceaueth. Df the Boare and the the Camell, is engendzed the Cameli with two lumpes bpon the backe, as the Poile is of the Affe, and the Pare, and in divers things resembleth his fire. as in briffled heares, Arength, and not famting in the myre but going luftily through, and in carrying double fo much as other Camels, as the fame authour fayth. The females of them are spaide, to serue the better for the warres : they live (as Aristotle fapth) fiftie peres: others fap a hundged peres, and are fubied to madnette, (as Plinic fagth) there are a kinde of them called Camelleopards, that have the resemblance of two divers beatts, the hofes and hinder legges like an Dre , his forelegs and his head like the Camell, the necke like a Dogle, being flecked white and red. Strabo fapth, he is concred like a fallow Deare, Araight necked, and hie, like an Difridge, his head some thing higher then a Camels.

Evp Hor. I remember I have seene the like beast so; all the world in a piece of Apestry with blacke Dwies, with their Wines, and baggage byon their backes, save that they had their little hornes byon their heads, like as some Shiepe have. I thinke Heliodorus in his Athiopian storie, did first des scribe this beast, but these outlands beasts we meddle not much

with.

HIPPO. Goe to Euphorbus, let us now fee you dischargs pour part, according to your promise, and tell us some part of your enning in kieping your Cattell: for next to the Porse in

worthineffe commeth the Dre.

EVPHOR. Since it is so appointed, I am contented to Bullockes.

Grup you what I can say touching my pope skill: and first, I may

not suffer the Pople to challenge the thiefe place, when the olds

writers

Weiters and auncient people did alwaies give the garland and chiefs praise to the Dre, as to a good Ploinman, and a faithfull feruant : for Hesiodus, a most auncient Warter, and the grauest Authour of our profession affirmeth, that the family both consist. of the Bulband, the Wife, and the Dre. The felfe fame by his authoritie both Ariltotle feeme to alleadge in his Bolitiches, and in his Gconomickes, which beaft was allvaies of that honour and estimation, that he was condemned in a great penalty, who focuer did kill him, being a fellow, and a chiefe helper in our hul bandap. By the woathineste of this beatt, many great things rea coined their names of them: for of the number, beauty, and fers tilitie of haifers, did Italy (as they lay) firft take his name, bed cante Hercules pursued the noble Bull, called Italus. This is the chiefecompanion of man in his labours, and the truffy feruant of the Goddelle Ceres: in many great things, for the roialty of the Dre, they deriued their names from the Dre, as in calling also the Wape Bumammam : infine, Iupiter himfelfe thought god to convert into this thape his finet barling Europa. Dozeover, of a rotten Stere are ingendzed the fwete 15 es, the mothers of Honey, wherefore they were called of the Greeks (as Varro faith) Budovac. The same Varro makes foure degrees in their age: the first of Calues, the fecond of Dereings, the third Steres, the fourth Dren. The Seres : in the first, the Bull-calfe, and the Cowescalfe: the fecond, the Deyfar, and the Store: in the third and fourth, the Bull, and the Cowe: the barraine Cowe he calleth Tauram, the melch Cowe Hordum, from whence came the featts called Hordica felta, because the melchehine were then sa crificed. The godnelle of this beaft is biners, according to the divertitie of the Country: the best were counted in the olde time to be of the bande of Albania, Campania, and Tofcam : at this day we take the best kinde to be in Hungary, Burgundy, Frisland, Denmarke, and in England. Df Bullocks, some are for the draught, some for the staule, and some for the paile : to what purs pole foener they ferue, whether it be for labour, for milking, or for fæding, it is best alwaies to chose such as are young, of lustie age, rather then those that are olde and barraine, the words of covenant in the olde time (as Varro faith) in felling of Bullocks, were thefe: doe you warrant thefe Bullocks, or Steres,

that

that you fell to be found, of a found Deard, and without fault? The Butchers that buy for flaughter, and such as buy for facrifices, ble no wood of warrantile: and though some Bullocks are chosen by their Arength, some by the greatnesse of their body, yet the best commonly have these properties : large, well knit, and found limbs, a long, a large, and a vere fived body, blacke hozned, though in the colour there be no great matter, yet some millike the white for their tendernesse, which also Varro consenteth, who would have them broad foreheaded, great eyed and blacke, his eares rough and hairy, his lawes to be large and wide, his lippes blackith, his necke well brauned and thicke, his dewlappe large, hanging downe from his necke to his knees, his Moulders broad, his hide not hard or Aubborne in fæling, his belly diepe, his legges well fette, full of finewes, and fraight, rather thoat then long, the better to fustaine the waight of his bos Die, his knies Araight and great, his feete one farre from the es ther, not broad, nor turning in, but easily spreading, the happe of all his body thicke and thoat, his tayle long, and big hapsed. Palladius thinketh the best time for buying of draught Dren, to be in Barch, when being bare, they cannot cafily hide their faults, by the fraude of the Seller, noz by reason of their weaknesse be to · Aubborne to be handled. It is best to buy them of your neigh, bour, left the change of ayze and loyle hurt them : for the Bullocke that is brought op nære home, is better then the Aranger, because he is neither troubled with change of apre, water, nor pas Aure: if you cannot have them nere you, buy them from some like Countrey, 02 rather from a harder: and be well affured that you buy them ever matched, left in their labour the Arons ger spople the weaker. Loke besides that they be gentle, skilfull in their labour, fearefull of the goade, and the driver, not breading any water or bridge : great feders, but foftly, and not ouer-haltilie, for fuch doe belt digelt their meate. In chofing of Mulles of Rine, the very like fignes are to be required, that the Bull differeth from the Dre, in that he hath a moze frowning and fierce loke, thorter hornes greater, and thicker necke, fo big, as it fiemes the greatest part of his body, his belly fomething gaunter, and meeter for Bulling of Kine. The Bull, before he be suffered to goe with the Bine, must be well fed with graffe, chaffe.

chaffe, or hay, and kept feuerally by himfelfe, neither must be goe to the Coive, till the tenth of June. Varro would not fuffer him befoze the rifing of the Lira : but Arifforde would have him all the reddzing time, to que in paffure with the kine. The Coine . like wife would be high of fature, and long bot fed, hauing great boders, broade for head, faire hornes, and finoth, and all other tokens almost that is required in the Bull, specially to be rounget for when they passe twelve perisold, they are not good for brad, but they lue many times farre longer if their pasture be god, and they kept from difeates. The olde Tolve gineth more milke then the young, according to the Country peoples prougrbe, olde Tine more milke, poung Dennes more egges. Againe, bnder thice pieres old, pou may not fuffer them to goe to Bull : if they chaunce to be with Talfe befoze, von must put the Calfe from them, and milke them for the dates after, leaft their boders be fore afterwards forbeare milking. Plinic writeth, that at a rere old they be feuitsuil, but the breede will be little, as it happeneth in all to timely ingendzings. Don muft cuery yere in thele beafts (as in all other) fort your focke, that the old that be barraine, 02 bimate for breding, may be put away, fold, or removed to the Plow: for when they be barraine (as Columella faith) they will labour as well as Dren, by reason they are based by, but we bie commonly to fat them : their age is knowne by the knots and cir. eles of their homes, which Plinie marketh likewife in Boates. The time for going to Wall, some take to be bell in the miel of the fpzing : Palladius would have it in July, for fo in the ninth moneth the Mail caine, for fo long the goeth with Calfe (as the common people fap) a Cowe and a Queane hath both one time. In many places they delire to have their Colves goe to Bull a thirty or forty daics after the tenth of June, that they may calue in Warch, or April: that they should have much mike, so or ber the matter, as their kine goe to Bull from the Spring, to Winter, lubereby they al maies milke foine: at ome builting the conceineth, if the chaunce to faile, the goeth to Bull againe within twenty dapes after: some fap, if to be the Bull come downe on the left fide of the Cowe, it will be a Comscalfe, if on the right fide, a Bullealfe. The Grekes affirme, that if you will haue a Bull-cate, you must knit the right Cone of the Bull for a Colo chile ...

raife, the left : Varro faith, that if you put the Cow to the Bull immediately after gelding, the conceineth. Columella affirmeth fifteene kine to be enough for one Bull. I thinke he will well enough ferue twenty kine, if he be fuch a Bull as I defiribed: ti pou have god Roze of patture, pou may let them goe to Bull every piere, but you must beware your laine be not tw fat, that will hinder their being with Calle. The Cowe hould when the is redding, have but that pasture, and the Wall his belig full : to Mall neither the betw fat, not be buluffp. If the Come will not take the Bull, you must fampe fea Dnions in water, and rub her under the taile with it : if the Bull be not lufty enough about his bulineffe, take the perell of a Stagge, burneit, and make it in vowder, and with a little wine and the powder, bath his ftones, and his perell withall, which will ferue for the like purpose in all other beattes (as Quintilian saith) his courage is also Kirred by by the like odours that you speake of for your Porle. A Bull sught not to leape the Cowe about tivile in a bay as some thinke, but we finde by experience, that he may oftner. In some places they have common Bulles, and come mon Boares to enery Towne: A Bull will ware furious at the fight of any red thing, as the Clephant, and the Lyon, which can in no wife abide the fight of any white thing. A Cowe will give lucke to a strange Calfe , but let not the Calues lye with them in the night, for feare of over-laying them. Some weane them at the first, and suckleth them with Dike, or Tuhap, haufing a little Branne in it, or Flowe, wherewith they being them bp, till they be able to fiede. Wihether you means to reare them for brede, labour, or fæding, you must let them want no ftoze of god pafture: for though they be of neuer fo great a bzede, pet if their palture be fcantie, they will neuer come to their full growth : for pasture makes the beatt (as the Countrey people lay.) Mago, and the olde Bufbands, would have you to geloe them while they be very young, which or der we likewife observe in cutting of them : and in the Spring. or at the fall of the leafe, when they be their moneths olde, or there about, we ble to geloe the Bull Calues, and spay the Cowe Calues, sowing up the wound, and annointing it with freth Butter. Columella would not have them cutte, but their Honcs

Cones broken by little and little with an instrument, which kinde of geloing he best liketh, because in the little young ones, it is done without bleding: for when they be something growne bp, it is better to cutte them at two yere olde, then at a pere olde, which must be done in the Spring, or at the fall of the leafe, the Done being in the wane : you must tye bp the Calfe to a frame, and before you cut him, you must fasten about the linewes, where. by the Mones hang, a couple of small flicks like a paire of tongs, and taking hold therewith, cut away the frones, fo as a little of the opper parts of them may remaine with the forelate lynewes: for by this meanes you thall not hazard the beatt by cuermuch bles bing, neither is his fromacke quite taken away, but hath some. thing of the father remaining, and pet lofeth his abilitie of ingens Ding. Potwithstanding, if you luffer him immediately byon his new cutting to goe to the Low, it is certaine he may get a Calfe, but let him not lo doe, for feare of bleding to beath. The wound must be annointed with the Albes of Hines, and Lytharge, and he must not be suffered the first day to drinke, but nourished with a little meate: the daves after he must be eyeted, according to his feeblenesse, with greene bowes and sweete grasse cut for him. and loked to, that he drinke not to much: and if you will, you may annoynt the fore for three dates with Tarre, and a little Athes, and Dyle, to heale him the foner, and to keepe the place from flyes. Pou must blethem while they be yet young to fus. fer to be handled, and Aroked, and tyed by to the Danger, that when they thall come to be broken, they may be handled with moze eafe, and leffe danger : but Columella forbios you to med, ble with the breaking, or labouring of them, before thee pere old, and after five: for the one is to fone, and the other to late. Those that you have taken by wilde, and be well framed, and propostioned, according to my patterne, you shall handle and breake in this fort : First of all, fee that you have a large rome, where the breaker may easily goe by and bolone, and out at his pleas fure, without any danger. Befoze the Stable you must have a faire field, that the Steeres may have libertie enough, and not be feard, or haltred with trees or buthes. In the Stable, your must have certaine stalles or bordes, poke-wife fet bp, a feauen fate from the ground, to which the Stieres may be tyed: this

poner

bone, those you a fapre day for the purpose, and taking them by bring them into the Kable: and if they be bureasonable, wilde, and curk, let them Kand tyed a day and a night without any meate, to tame them withall: afterwards let him that kiepes them, offer them a little meat, not sidewayes, or behinde, but be fore, coing them all the while, and speaking gently to them, stocking their backes, and their mosels, and sprinkling them with a little sweet wine, taking god hed, that they strike him neither with head, nor with hele: for if he once get that tricke, he will never leave it. Thus being a little acquainted with him, you shall rubbe his mouth with Salt, and let downe into his throat certaine lumpes of salt tallow, and powring after a quart of good Wine, which will make him in three dayes as good a feliow as you would wish him to be. Some vse to poake them together, and let them draw some light thing, or plow in a light plowed

ground, that their labour hurt not their neckes.

The readier way of breaking them, is to poke them with an olde Dre, that may easily instruct them: if he happen to lye downe in the furrow doe neither beat him, not feare him, but binde his fet together, and let him lye, that hee may neither Aurre, noz feede: which being well punished with hunger, and thirst, will teach him to leane that fullen tricke. The feeding of this kind of Cattell is divers, according to the divertitie of Countries : if there be fore of goo Paffure in the Countrie, there is no fode to that : in Countries where wanteth Patture, and specially in Winter, he muft be kept in the Stall, and fed with fuch fodder as the Countrey polos. Wihere there are Wares to be had, it is the best feeding for them : and Day is bery good, Chaffe, and Colestalkes with Thatte and Hay, and chopt fraw foode toges ther in water, is very good feeding for Winter. In some places. they fiede altogether with new threshed strawe : in many plas ces they give them Lupines freped in water, oz Chiches, oz Defon, mingled with Chaffe: besides, the branches and leaves of Mines, the greene branches of Cime, Alhe, Poplar, and Bolme: in winter, when other griene bowes faile, the figge Dree will ferue, og the broufing of Dkes, & Holly. Dren are fone fat in good Patture, and with Wheat, Kapes, Apples, and Kaotth: Dren, 03 Kine will be patting fat, where there wanteth Balture,

by gluing them meale mirt with Witheat, Chaffe, and Rapes, 02 Braines. They will ware the foner fat, in washing them with warme water, og (as Plinic faith) by cutting their fkinnes, and blowing in winds to their bellies with a Niece. Socion teacheth that they will be fat, if when they are taken from pasture, you gine them the first day Collumits chopt and freped in Charpe Umegar, and afterwards Chaffe, being well cleanled and ming, led with Witheat branne, for the space of fine or fire dates, fieding them after with god floze of fonder: in Winter you must fiede them at the first Cock-crowing, and agains when the day begins to bacake : in Summer firft at the baeaking of the bay, then at none, and at night : in Summer you must water them twife a day, thechoures afore none, and thechoures after : in Winter, once a day with warme water, which is also thought to be goo for fruitfulnelle : and therefore the Lakes that are filled with raine water, are good for them. This kinde of Cattell defireth no cleane, og faire water, but foule and publed : pet it were better to gine them faire water. Alfo, you muft provide them of warme pastures for the Minter, and in Summer very cole: chiefly Pountaines where they may browle byon the buffes, and picke by a god living among the Woods: but in lowe grounds and nere the River Dren are foner fatted, and laine give a great ter quantity of Wilke. In Summer, they lye abroade all the nights in many places: yea, in England you thall have them foddzed abroad all the Winter. Though they be able to abide colde, vet must rou pronide them of large Stalles, for the fuccous ring of suchas be great with Calfe. Pour Stables of Dreftals, must stand oup, and be well flored, either with stone, granell, or fand: the Stone will suffer no water to abide upon it, the other will fone brinke it by, and by it : both forts must be laved flove, that the water may runne away for rotting the groundfels, and marring their houses. Let them open toward the South, so mail they be the drier, and the warmer: notwithstanding, let pour windowes open Porth and Caft, which being thut in Winter, and open in Summer : may gine a healthfull apre. In fine, as necre as can be let the houses be neither to hot, not to colde, and as bay as may be: Columella would have two Dreshoufes, one for the Winter, the other for the Summer, both bucquered, but

but well and high walled, for keeping out of wilde beates. The Stals would be eight forte wide, that they may have rome es nough to lpe in , that the laine great with Calfe hurt not one the other, not the Aronger. Dre woong the weaker: and that there may be rome for their Beevers to come about them, and for poaking them. Vicruuius would have the Dreshoule open towards the Caft, and to be neve the fire: for fire is naturally beneficiall to Cattell, both for the drying up of the infective damps, and the keeping of the Cattell warme. Belides, by fees ing of the fire, they are made gentler, and by the heate thereof, what colde they have taken in the Waltures is expelled, and diuers inward diseases cured. The houses mult be severed with piners romes, enclosed and racked, the Kacke must have such pertitions, as one beaft beguile not the other, whereto they mut be well haltred and tyed, for hurting one the other: Caro would have the pertitions lettifed. Pozeover, it is to no purpose to fiede them well, except you also looke to the kieping of them in health, and found, and therefore whether they be in house, or abroad, you must alivaies have a speciall regard bute them, and to ouer-looke them in the night, specially, if there be any Bine amongst them with Talfe. And though it be nevefull at all times to ouer-fee them, both morning and evening, pet most neoefull is it of all other times, to fee to them in the Spring, luben you first put them to pasture: for at that time, by reason of their change of viet, both Dren, Eine, and Dapfars, are moft in danger of fickneffe: in Winter againe to looke to them, that they be not, for sparing of charges, kept so poore, as they be btterip spotled. And therefore you must spare no litter, specially when they come from labour, to rubbe them, and day them, Aroking them with your hands, and railing the hide from the Ech, which will doe them great good. In comming from worke, or out of the patture, you must wath their feete well with water, before you bring them into the house, that the durt and filth cleaning to them , bzeede no difeafes , noz foften their hofes. Beware ofto much cold, or heate, for too much of either, filleth them with diseases. Pou must take heede thep be not chaft, noz chafed up and dolune, specially in hot weather, for that bringeth them in a Feauer, or causeth them to haue a flire.

Take his also that there come neither Swine nor Poultrie niere their stalles, for both of them with their ounging poyloneth the beast. The dunging of a sicke Swine doth briede the Pesti-lencs, or Purraine amongst Cattell. Pou must away with all manner of Carrious, and burying them well for insecting your Cattell. It so be the Purraine chance to come amongst them, you must presently change the agre, and sener your Cattell sarre as sunder in divers passures, keeping the sound from the sicke, that they be not insected, nor suffering them either to siede together, or drinke together.

The Murraine and his divers kindes.

The Pettilence of Queraine, is a common name : but there are divers kindes of it : in some Murraines, the cattell divell, and runne both at the note and mouth: in others againe they be dip, and fall away moze and moze: sometimes it comes in the topnts, and causeth them to halt befoze oz behinde: sometime in their kidnics, and appeareth by the weaknes of their hinder parts. wherein they fame to have great paine in their lopnes. Another kinde there is, that rifeth like a Farcine, with pimples over all the body, now appearing, and presently banishing, and comming out in a new place. Another fort, betwirt the hide and the fleth, wherein the humour sweateth out in divers parts of the body. Sometime it is like a lepzofie, when all the fkinne is full of little pimples, and sometime a kinde of madnesse, wherein they nevether heare, not fix so well as they were wont, though they loke fayee and fat, and luftie enough. Query one of thefe kindes, are contagio ous and infedine: and therefore as some as you perceive them infected, you must presently put them asunder, for inseating the whole flocke, left you impute that to the weath of God (as many foles doe) which happeneth through your owne beaftlynelle, and negligence. The common remedy (as Columella faith) is the rots of Angelica, and Sea Thiftle mingled with Feneil feede, and with new boyled Mine, Wheat flowie, and hot water to be fpzinckled bponthem. The common people, when they perceine either their Dorle or Bullocke fick, or any other cattell elfe, they ble to take the rote of blacke Elleboz, called of some Confiligo, of others Bearefote: and for a Bullocke, to thrust it in the Delv. lap; for a Porfe, in thebreft; for Swine or Shæpe, through the eare, making a hole with a Bookin, & thrutting the rote prefently

through

Sctterwoort, through, which the new wound holdeth fast that it can not fall out, whereunto all the whole force of the poylon both ftraight. wates gather, and runneth out in filthy water. Perfumes in this cafe (as Vegetius teacheth) do much god, as 152 imstone, bullecked Lime, Barlick, wilde Mariorum, and Togiander feede, laid bpon the coales, and the Dren so held as they may receive the smoke by their mouth & nofe, that it may fill the braine, and their whole body with a healthfult agre. It is good also thus to perfume the whole body, both for the health of the ficke, and preferring of the whole. Before I proceed any farther, I will fet you downe what kinde of Spices, and what quantitie you ought alwaies to have in a readinette for your cattel. You mult have one pound of Fenis crike, halfe a pound of Liquerelle, one pound of Graines, Turme, ricke, halfe a pound of a quarterne of Bay beries, one pound of Long Depper, halfe a pound of Triacle of Gean, a pound of Anilfeede, halfe a pound of Comin, halfe a pound of Padder, Detment, halfe a pound. The hearbe whole rote you may ble (as 3 faid bes toze) groweth in many places in the Mods: it was once brought onto me by chaunce from Darndall in Suffex, by one Richard Androwes, a good painefull fearther out of futh things. For beside his prefent remedying of Cattell, he ferueth against divers difeas fes in a man, specially for the Quartane, as the learned Mathio- For Crulus hath in his description of Plants mentioned.

To returne to my Cattell: if they want their digestion, 02chaine not endde, which diseases is perceived by often belching, and noyle in the belly, with forbearing of their meate, bulneffe of their eyes, and not licking of themselves. Take a handfull of Pellitozie of Spaine, as much of Pearbegrace, as much of Fetherkew, Sage, Hozehound, and Bay Salt, thice pintes of very Arong new drinke: sæthe them all together three or foure walloppes, and give it him bloud-warme in the morning, not luffering him to oxinke till the afternoone: if you neglect this disease, so that he be payned in the belly, and full of griefe, he will grone, and neuer Cand Mill in one place. For remedie whereof, you thall binde his tayle close by the Kumpe, as Araite as may bee, and give him a quart of Wine, with a pinte of the purest Dyle: and after drive him apace for the space of amile and a halfe: annoint your hand with greate, and rake him: afterwards,

afterwards, make him runne againe: fome ble to lethim blood

in the taile, within a handfull of the rumpe.

The Taile There is a disease inhich they call the Wolse, others the Taile, which is perceived by the loosenes, or softnesse betwirt the ioints: take the Taile and sele betwirt every toynt, and where the ioynt semeth to be a sunder, or is soft and not close as the other toynts, there take and slit him the longest way under the Taile, about two inches long, and lay in the wound Salt, Soote, and Garlicke, and binde it fast with a clout about it. The Cholicke, or paine in the belly, is put away in the beholving of Gese in the water, specially Duckes, (as you sayd before of Horses:) for the sight of the Ducke, as Vegetius and Columella say, is a present remedy to this beast.

The Flixe For the Flire, or the Laske, which in some places they call the Kay, take Sloes and dry them in powder, and give it them to drinke: if it be the bloody Flire, the olde fellowes were wont to cure it in this fort: They suffered not the beast to drinke in their dayes, and kept him fasting the first day, and gave him the stones of Keazins, or Grapes, dryed and made in powder two pounds, with a quart of charpe tart Unine, and suffered them to drinke no other drinke, and made them eate the browning of wilde Plive trees, and Pastrice trees: and if they mended not with this, they burnt them in the forehead to the very braine pan, and cut off his eares. The wounds, till they were whole they washed with Ore pisse: but the cut parts were to bee healed with Oyle and Ditch.

Laske in Calues.

The Cough.

If your Calnes have the Ray or Laske, take sweet milke, and put therein the Kennet of a Calse, make it no thicker but as the Calse may well drinke it, and give it him luke-warme.

If your Bullocke have the Tough, and if it bee but beginding, give him a pinte of Barley meale with the yolke of an Egge, Reazins boyled in tweet Thine and Arained, a pinte: mingle them together, t give it him fasting. Also Graines beaten and mingled with Flower; fried Beanes, and meale of Lenstils, all Kirred together, t given him in a mash. Columcila would have you give them Grasse chopt, and mingled with Beanes that are but a little broken in the Will, and Lentils small ground, and mingled with water. The old Tough they cured with two pound

of Hylope, Rieped in thee pintes of water, and mingled with Flower, which they made him to swallowe, and afterwards powered into him the water wherein Dylope had beene locden, also Weason, with Barly water and sedden Bony, when they had the Cough, and Consumption of the Lungs. To kepe them a live, they bled to burne the rote of a Hafell, and to thauft it through their eares, giving them to drinke a pint of the inice of Lieks, with the like measure of Dyle and Wine. For the Cough of the Lungs. I ble to gine them long- Depper, Graines, genes grote, Baves, Annificede, Datment balles, Turmericke, and Madder, beating them all together, and feething them in god Ale grounds. It your Calnes have the Cough, take Sentozy, and beat it to powder, and give it them.

If they have the Feauer, oz Ague, you thall perceine it by the The Feawatring of their cies, the heavinche of their head, the daine, ver. ling at the mouth, beating the beines, and heate of the whole body: let them fast one day, the next day let them blod a little

betimes in the morning in the taile, after an houre give them a thirty little Stalkes of Collowits fod in Dyle, Wlater, and Salt, which must be polyzed fasting in them, fine dayes together. Belide, you may gine them the tops of Dline tres, Lentils.

or any tender brutings, or branches of Mites, and wipe their monthes with a Spunge, giving them colde water thate a day.

The blood falling downs into the legs, causeth them (as Vegefius faith) to halt, which as some as you perceius, you must traight, Halting. waies looke byon the hoofes, the heate whereof will declare his griefe, beside, he will scarfe suffer you to touch it. But if so be the blood be pet about the hoofe in the legs, you shall distolut it with good rubbing, or if not with that, it th fearifying, or pouncing the Chinne. If it be in the foote, open it a little with a knife betivene the timo clawes, and lay to the fore, cloutes dipped in Til negar and Salt, making him a Cooe of Broome, and be well warche come not into any water, but fand day. This blood, ifit be not let out, will baced to matter, which will be long ere it heale: if it be opened at the first with a knife and made cleane, and after clomisdipped in water, Salt, and Dyle land to it, and at the last annointed with olde Swines greafe, and Goates fuet boyled together, it will quickely be whole. This disease, as I take it; tha :

the countrep people call the Fowle, or the Wilpe, which they fometime cure with drawing arope of Araiv, or hapre, through the Cleefe, till it blede, og by fearing of it with a hot pron. It the bloo be in the lower part of the Doofe, the bittermost part of. the Cle is pared to the quicke, and so the bloo let out, and after the fot wrapped with clowtes, and hoed with Brome, you must open the Boofe in the middelt, ercept the matter be ripe. Ifhe halt by reason of the Crampe, or paine of the finewes, you thall rubbe his knies, thighes, and legs, with Salt and Dyle, till he be whole. If his knes, or toynts be fmolen, they must be bathed with warme Uineger, and Linfæde, oz Pylet beaten and lapo to it, with Water and Honny. Also Spunges wet in hot water, and dayed againe, and announted with Hony, are very good to be lais to the knee : if bnder the swelling there be any humour, Leaven, 02 Barly meale sodde in water and Honp, 02 sweet Wine, must be layd to it : and when it is ripe, it must be opened with a knife,

and healed as before.

All griefes generally, if they be not broken, must be distoluce whilest they are new, with bathes, and fomentations: and if they be old, they must be burned, and the burning annointed with Butter, 02 Boates luet. If he haue hurt his heele, 02 his hofe, Cone Pitch, Bzimffone, and greaffe Woll, muft be burnt bpon the foare with a hot pron. The like must bee done when it is hurt with a Stubbe, a Thorne, oz oz a Paile, being first plucked out, 02 if it bee very bepe, it must bee opened wide with a knife, and fo handled : for kibed heles, take and caft him, and binde his legges fast together, then take your knife, and cut it out as nie as you can, and let him bled well: then take a peny-worth of Merdegreafe, and the yoalke of an Egge, and temper them well together, and binde them close to the place, and he thall heale. If the Adder of your Kine doe fwell, you thall bathe them with Juy, sodden in Stale Bere, or Ale, and smoke them with Hony coames, and Camomell. If the Bullockes fete be nere worne, and furbated, wath them in Dre pille warmed, and kindling a few twigges, or sprayes, when the flame is bone, cause him to Cand opon the hot imbers, and annount his homes with Aarre, and Dyle, or Pogges greafe. They will neuer lightly halt, if after they have bone laboured, their fote

be washed well with cold water, and afterwards their pasterns, and the places betweene the Clas be rubbed with olde Sivines

The scabbes, or mangenesse, is gotten away with rubbing Scabbes. them with stamped Garlicke, which also cureth the biting of a madde Dogge: besides, Peneriall, and Brimstone, beaten and boyled with Oyle, Aineger, and Mater, and after whilest it is warme, a little Alom made in powder, and cast into it, doth cure the scabbe, being annointed in Sunshine. Others vse to annoint them with Butter, and Bullocks pisse: and some againe take

Rozen, Tarre, and Mine, and ble it as a Pulteffe.

Dioc-bound, is when the fainne fo frickes to his backe, that Hide. pou cannot take it up from the ribbes, which happeneth by fuffes bound. ring him to take cold after his fiveat, or if after his labour he be met with raine, or brought low with fickenelle: which, because it is very dangerous, you must loke that when they come from their labour, and are hot, you fprinckle them with Taine, and give them some pieces of lat, or suet. But if thep be already hive-bound, it is good you fethe fome Bay leanes, and with the warine decocion thereof, to bathe his backe, and to rubbe him all over with Wine and Dyle mingled together, and to lift and plucke by the fain round about, and that abroad while the funne Chineth. If his bleding french not after the cutting of the vaine, the remedy is, to lay his owne doung to the place. A common medicine for all diseases (as Vegetius reporteth) is this: the rote of a Sea Dnion, the rote of a Poplar, and the common Salt, of each a sufficient quantitie, lay them in water, and give it pour Cattell to dainke till they be whole : which also being given in the beginning of the Spring , for the space of fouretiene dayes, preserveth them from all sickenesse. Pow that you have heard in what fort the old husbands did remedie the diseases in their Cattell, I chall briefely declare unto you the remedies that are observed in sunday diseases at this day, whereof I have chopt in some amongst the medicines before.

First, so the Durraine: it beginneth at the first in the throat, For the and swelleth in the head, and rotleth with much noyse in the Marraine. throat, whereby it is perceined: take a quart of newe Wilke, throalfe a peny-worth of Butter, a peny-worth of Garlicke, two peny-

peny-worth of English Saffron, two peny-worth of Cinamon, two peny-worth of Turmericke, a quantity of Hearbegrace, a quantitie of Wittony, mingle them all together, and give it him inarme: then take an aule, and thauft the toppe of his note bus ward, take but the very toppe, to thauft through, and not to the headward, then let him blod in the necke almost a pottell, if hee beable: saue the blod, and let it stand, if it change, he may line, if not, he bieth. Another for the same. Where he swelleth about the faires, and by to the eares, open him under the faires to the rote of the tongue, and get in your finger, and open it a god widenesse, then take a goo piece of rusty Bacon, and a handfull of Raggewort, fampe them well together, and fill the hole full with it: then let him blod at the note, and the tongue. A drinke for the same. Take Tanste, Bearbegrace, Lungwort, Pplope, Time, of each a like quantitie, halfe an handfulli, Campe them, and take a quart of god Alegrounds, and foth them a wallop, 02 two: take and Araine it, and put the licour into a bestell, put thereunto a penp-worth of Graines, a penp-worth of long Depo per, a peny-worth of Detment, and an peny-worth of Fenegreke, to give if the beaft luke-warme.

For the Lungs.

The fickenesse of the Lungs is perceined, if the Delvlap be hard closed together very farre up: also in hard fæling the hide bpon the backe, it cracketh, or inappethmuch : also a Mort hus king, and thausting out the tongue withall: it it be much perithed on the left five, he is bucurable, which you thall perceive by the Hive, which will flick fall on that live, and likewife the Dewlap: if he be farre gone, he will groane much. The remedy for this disease, is to take long Depper a peny-worth, round Depper as much, of Grames two peny-worth, of Turmericke two penyworth, of Fenegreke two peny-worth, of Pace as much, Cloues a peny-worth, of Anisseds a peny-worth, of Hadder two penyworth, of Triacle of Bean, the otterrinde of Walnuts deped, and made in poluder, Juniper berries powdzed, Dre Lungwort, Fetherselwe, Pearbgrace, Tante, Pople Pintes, Bayberries politozed, a peny worth of Garlicke, a quart of Thamberlie, a pinte of Sait, a quantitie of Butter. Setter him befoze, or im mediatly after this medicine ginen.

Settring of Cattel.

The order of Settring a Bullocke is this :take Setterinmet,

otherwise

otherwise caited Beareswte, and Barlicke, like quantific, pelo and frampethe Barlicke, and pare the Setterwort cleane, and wappe them well in Butter, then cut the Dewlap two inches behinde the Micking place, to the breftward, and cut it along tibile about two or three inches, and pull the Dewlap with thy finger, or with a flicke, round about, one five from the other, as much as poucan possiblie: Then put the Setterwort, Barlicke, and Butter, as much as thou cank well put in, and thus doe on both fides the Dewlay, then rowle him so that the ftring may goe through both holes on both fides the Dewlap, alwayes remems bring to cut the Dewlap a hand broad, or about the bottome, and in any wife to rent him to the bottome, before you put in the medicine. The third day after the Settring, loke to the opca ning the wound, and let out the corruption (if it be come downe) if not, put in moze of the medicine, and turne the rowle: and if it be much swollen, and hard, and will not rot, take a hot from, and take by part of the foare, the flinne, and the fleft, in fuch place as thou fælt most connenient, so as it come not to the bone, and thau Ethe tron through on the one five, and on the other, or once right buder, if the swelling be right beneath, and Tarre him well if the flies be buffe. Which flies, if they chaunce to get into the foare, take a cloth, or towell, and lappe it about a ficke, and put it into skalding hot Tarre, and so among the Hagots, searching enery corner well. After you have pearced him with the hot fron, remember to take a little Aicke, and Towe, and dipping it in Sallet Dyle, 02 woll Dyle, to rubbe the hole where the you

The fickenesse of the Ball, is known by the running eyes, The Gall, of the haus much yellow eare-ware: it is also discrenced by the or Yelovine yellowes whoer the upper lippe: the Cure is this: Take lowes. browne yellowes whoer the upper lippe: the Cure is this: Take lowes. Chamberlie, good Ale-grounds, or Biere-grounds, hard Sote Chamberlie, good Ale-grounds, or Beare-grounds, hard sote Chamberlie, Balliwort, bears Lungwort, Planten leaves, in powder, Balliwort, bears Lungwort, Planten leaves, where the control of Aqua virx, for a great Bullocke, take almost a peny-worth of Aqua virx, for a great Bullocke, take almost a quart of this medicine, for a small Bullocke, lesse: when hee quart of this medicine, for a small Bullocke, lesse: when hee quart of this medicine, and all the rose of his mouth: then and rubbe well his tongue, and all the rose of his mouth: then and rubbe well his tongue, and all the rose of his mouth: then with bis baske, and chase it well with Chamberlie, luke warme: with his baske, and chase it well with Chamberlie, luke warme:

Forthe Liner.

The

Blaine.

gather all thefe Bearbes in Summer, and kæpe them, and make them in powder. This Bedicine ferueth like wife for the Lungs. If a Bullocke be difeated in the Liner, he complaineth first in the legges, which will so grieue him, that he thall not be well able to fand, though he be in good liking: the remedie is this: Take a quart of god Ale (if it may be gotten) if not, take Bere, put therein Liverswort a god handfull, Wormewood as much, a peny-worth of Barlicke, halfe a peny-worth of Padder, a penyworth of round Depper, as much long Depper, a peny-worth of Cloues and Pace, a peny-worth of Triacle, mingle them toges ther, the Beards being poludzed, and give the Beatta deinke luke warme. The fignes of the Blaine are thefe, Swelling a. bout the face and the eye, and somewhat in the body: if it be in the body, it simelleth much there : the onely remedie is : Take and fearch him in the mouth, if you perceive bliffers bnoer the rotes of the tongue, or other place there-abouts, then cut them to the bottome, and let them out, and rubbe the place with Balt : fearth him also in the bodie at the fundament, by the arme or hand of fome young fripling : and when his arme is in as farre as hie can, let him turnehis arme vpward, and feele for the Blaines, or Bliffers, and breake them with his naples, pulling them quite out : sie that he annoint his hand well with Grease or Sope. There is a difease called the Sprenges, wherein hee will smite his head backward to his belly, and stampe with his legges: you must put your hand into his fundament, as far as you can, & pull out the dung, then thall you finde bloud, pull the bloud quite out, and take a good handfull of Bay Salt, and put it in at twife, as far as you can: if he have this difeate, he will fivell in the bodie, and couet much to dung. If he have the Staggers, he will loke Staggers. bery red about the eyes, and cast his head backward: take the fourth part of an ounce of Depper, baufett, and take halfe a pinte of tharpe Umeger, warmed blond warme, and poinze it into his Posthrils, & hold his head well beward, and let him bloud at the The Dasse Pose. If your Bullocke turne round, and have the Dasse, you thall take him by the head, and feele bpon his fozehead, and you Mall feele it with your thumbe : cut the fkinne croffe wife right in

the place, and wipe away the blond as it doth encrease with a clout, and binde a cloth oner his head, and kiepe it warme. If

The Sprenges.

The

pour Dren Pille blaud, tiepe them foure and tiventy houres from Pilling of mater, and then give to enery one alittle dilhfull of rennet curds bloud. in a quart of milke, let them not brinke in foure houres after. There sometime runneth a bloud bpon the backe of a Bullocke, which will make him draw his legges after him, and goe as if he were swalde in the Chine: cut off a loynt of two of his tayle, and let him blede : if he blede to much, knit his taple, og seare it. If he have the Panties, he will pant much, and shake in the Pantice Flanke, and Cometime thake bowne: gine him a little rennet, with Sote and Chamberlye. If he fivell of the Taint, oz Sting: Taint, worme, give him vrine, falt, and tryacle to drinke. Ifhe be Dides Hidebound, stampe the leaves of flozedelife, straine them, and give bound. the beaft to brinke: if he channe to have a ftroke in the epe, take the tugge of Smalledge, Fenell, and the white of an Egge. The Bargple is a swelling beside the eye bpon the boane, like a botch, Gargyle. of a byle: if your Bullocks have it, cut off round about it pieces of fkinne as broade: then cut also round about those pieces one narrow lappe of the fkinne, which will keepe the difeafe from his lippes, for if it come to his lippes, it is bucurable: Then take Chamberlye and Salt, and feethe them together, and wath the places where the fkinne is cut off, and walh it therewith evening and morning, till the fwelling be gone, fcraping off the fcabbes, and other filth at enery drelling to the quicke, till the fwelling be gone, not sparing it so long as it watreth and runneth: when the fwelling is cleane gone, take Paruoile and Bonep, bopled together bloud warme, and annount all the laid places, which will both heale it, and cause the have to come againe. The have For all sertaine medicines belides, that we ble generally for all difeales: difeales. as this, jubich is very soueraigne: Take a handfull of beatts Lungwort, a handfull of other Lungwort that serueth for the pot, a handfull of inward rinde of Elder, a handfull of Reive. choppe them imall, and put them into a pottle of good Ale, let them fiethe till they be loft, then firre them, and put in the liquour a peny-worth of long pepper, a peny-worth of graines, a peny-worth of Liquerife, a peny-worth of Anistede, a halfe-peny-worth of Comen, a peny-worth of Turmericke, all well beaten, and put into the liquoz, with a quarter of a pound of Maoder: and while all thefe do feth, take a great bole oith, and put therein a handfull of Bav

Bay fait, halfe a handfull of Barlick, foure new layd Egges, theis

and all, two bails of Datment, grinde all thefe things with a Des Ale, in the bowle: then take the liquour afozefaid from the are, till it be halfe cold, and put the warme liqueur into the bowle, with the Barlicke, Sait, Egges, and Detment, belo it well together, and give the Beaff to deinke bloud-warme, or a little more. Ance ther of the fame fort is this: Two peny-worth of Comen, a penp-worth of Grains, two peny-worth of Anisteds, a peny-worth of 15 ay-berries, a peny-worth of Fenerik, a peny-worth of Turs mericke, one ball of Datment, a peny-worth of Triacle, or ras ther for the Lungs, thee or foure sponefuls of Madder, beat them all together, and put them in thee quarts of danke, let them on the fire, till they be bloud-warme, give the beatt no drinke in the morning before, nor till none after, in the Summer, and in the Whinter till night: or if you will, you may give them this medis cine following : Take flint fote, that is hard diped bpon a pot or rose, and beat it into powder with falt, then take running was ter, and feetheit, rank Juie, with the fote and falt, and when the Juie is loft, take and wring out the ingre, and ftraine all together through a linnen cloth, and give it your cattell to drinke bloudwarme, in the Spring, and at the fall of the leafe. Bubalc, called of the common people Buffes, of Plinie Bisonte, are common in Italy, beyond the Apenin: a wilde and sauage Beast, that for their fiercenetie, are handled with rings of Iron in their notes: of colour blacke, their bodies large and mighty, their legges well fet, and knit bery frong : and in respect of their bodie, thoat, their hornes large, crained, and blacke, their hapre finall and thort, their tayles little: they are in those parts bled for carriage, drawght, and like vies, as the Dre. Of the milke of this beaft are made Chefes, that about Rome and other places are greatly effemed. Columella counts them to be firong meate, and heavy of digeffis on. Loe here is all that for my there I have to say touching my caffeil: now Hedio, hold pon the candle another while.

The Buffes.

Sheepe.

Hedio. Pert buto the greater fort of cattell, the chiefest place is to be assigned to Shiepe: yea, if you consider the great commoditie and prosit, they are to be preferred before them: for as Oren serve for the tilling of ground, and necessarie ble of men, so is to this pore beast ascribed the savegard of the body; so

the Shiepe doth both with his flice apparrell bs, and with his milke and wholesome fielh nourith bs (as the Poet witnesseth.)

Poore beaft, that for defence of man, at first created wast, And inthy swelling vdder bear'st, the juyce of daintietast: (faile, That with thy fleece keepst off the cold, that should our limbs af-And rather with thy life, then with thy death, doeft vs availe.

De Shape there are funday bacedes. The rich and a champion countrey bix beth a large and a great thepe : the barren and the cliffie, a reasonable Cature: the wilde and the mountaine ground, a small and a wirith thispe. The old husbands did greatly commend the brade of Milet, Appulia, and Calabria, and most of all, the brede of Taranto, nert of Parma, and Modena. At this day, for the finenelle of their flece, are molt in price the thepe of England, of Germany, about the Khine, and of France. Varro couns felleth all such as would buy Ewes, to have their chiefe consides ration of their age, that they be neither to old, noz to young: the one of them not vet come to it, the other already past profit: but better is that age, whereof there is some hope, then where there followeth nothing but a dead carkaffe. Pour belt is therefore Thechoise to buy them at two yeares old, and not to meddle with fuch as of Erren are past their age is to be knowne by their teth: for the toth of the olde ones are worne away: nert must you loke, that your Gwe have a large bodie, depe wolled, and thicke over all the body, specially about the necke and the head, and god stoze byon the belly: for fuch as were bare necked and beliged, the old husbands alwaies refused. The necke muft be long, the bels ly large, the legges thoat, though the thepe of England be long legged, the tayle in some countrey thoat, in others very long: for in Arabia some haue tayles a cubite long, but wonderfall broad : others, (as both Herodorus, and Elianus affirme) three cubits long, fo that the Shepheards are forced to the them by, for being hurt with trayling opon the ground. In Agypt a Rams taile hath bene found to weigh rr. pound and moze. The Rammes: must have his homes great, winding inward, and bending to the face, though in some places they have no homes at all, and pet no better Rammes : the hornes must rather crokle inward then H 2

then grow Araight bp. In some Countries that are wette and Rozmic, Beates & Rammes are to be chofen that have the great tell and largelf homes, whereby they may defend their heads from Come and tempet: and therefore in colo and Comie couns tries, the homed Kams are belt : in milde and gentle clymates. the pold. Befide, there is this inconvenience, when he knows him. felfe to be armed, he will alwaies be fighting, and buruly among his Ewes, and though he be not able to ferue the turne himfelfe, pet will he luffer no other Kamme in the Flocke, till he be cuen cloved, and lamed with letchery. The Wollard on the other five. finding himselse bnarmed, is milder and quieter by much: where. fore the Shepheards, to rettraine the rage of the buruly, doe ble to hang before his hornes a little bord with tharpe pricks inward, which keepes him from his maones, while he perceiveth himfelfe to be hurt with his owne bloud: others fay, that if you pierce his homes with a wimble, next to the eares, where they winde ins inard, he will leave his brawling. In some places also the Ewes are horned: but to the Kamme. Dis eyes must be browne, his cares must be great, his brett, thoulders, and buttocks broad, his Kones great, his tayle broad, and long : you must loke beside, that his tongue be not blacke, noz peckled, for commonly fuch will get blacke and pped Lambes, as Virgill noteth :

And though the Ramme in fight be white as fnow, If blacke within his iawes his tongue be wrought, Refuse him quite, lest if he leapethy Ewe, He doe infect thy Fold with colour nought.

Buy not your Shape but wathed and buthozne, that the colour may plainelyer appeare: the white colour, as it is the beautifulleft When to foisit the profitableft. In March is your best buying of Shepe: buy sheepe for Shepheards like such as have well worne out the winter. Withosoever will be a thepmaister, must regard the abilitie of his ground: foz it is not enough to have pafture in Summer, but they must be well prouided for in Winter : in any wife you must haus Roze of pasture : and better it is, and moze profitable to the spain fter, to keepe a few thepe well, then a great number with scarsitie of patture. Elorentinus is of that fancy, that he would your number

Chewlo

Mould rather be odde then even, thinking that number moze foze tunate, for the healthinesse, and long continuance of the cattell: but these are superstitious topes, as are a great number of ther, imagined by the faithleffe. Be fure euery piere once, to make your mufter, and supply the places of such as are dead, or ficke, with a new and a found number, so that the Patter be not deceined with an old unprofitable flocke. The hardnesse and erus eltie of the cold Winter, both oftentimes beguile the theepheard, and destroyeth many of his flocke : whereof (prefuming of their Arength in the end of the Summer ) he had made no supply, and therefore Columellais of opinion, that the age for breed ought not to be leffe then their pieres, noz aboue eight, both because that neyther of the ages is meete to be kept: and also that what: foeuer commeth of an old focke, hath lightly a smacke of his old parents imperfection, and proueth either to be barraine or weake. The feife same Columella would have the Gwes to be put to the Kamme after they had pasted two pieres old, and the Kamme to be of fine peres olo, for after feauen they becay. In many plas ces at this day, they luffer both the kindes to beed from two pere old, till nine: but befoze tivo pieres, it is not god to put eyther the Kamme og the Ewe to bied, although in most places they fuffer the Ewe at a piere old. The Kamme is put by his purpofe, by the Wickers, 02 Bulrithes, tyed to the Ewes taple, but moze commodiously, by going in severall pastures : howbeit, they are not commonly feuered, but fuffered to go together. The Kammes that you would have to ferue your Gwes, muft afoze the bloffod ming, bekept in god pasture, for two moneths, whereby they may be the better able to doe their bufineffe: but in our country, we commonly luffer them to fiede together. To increase their lufts, you thall give them in their pasture the blades of Onions. or knot-Grade: They rather couet the old Cives then the pong, because they be eastier to be entreated, and the Kainmes theme felues in age be the better. Wy knitting of the right Cone, you Mall have Cive Lambes, and of the left, Ramme Lambes: also their blossoming in the Porth-winde, getteth Kamme Lambes, and in a South winde, Give Lambes, one Kamme (as Didymus affirmeth) fufficeth for fiftie Gwes: when they have all conceived, the Rammes mult againe be banished, for dangering 33 3 and

and harming the Ewes. During the time of their bloffoming. they are to be watred in one place (as both Varro and Plinic af. firme ) because the change of water both discoloureth the woll. and dangereth the Lambe. The policie of Iacob the Patriarh, in procuring of partie coloured Lambes, is well enough knowen. The best time for blotsoming, is from the letting of the Baers luard, to the fetting of the Egle: (as Varro and Columella haue witten ) whichis (as Plinie interprets it ) from the third Joes of Day, till the thirtene Balends of August: others thinke it god all the piere long, many preferre the Winter Lambe before those that fall in the Spaing, as a creature that of all others bett baoketh his Minter brath. The thunder, if the Ewes goe alone makes them caft their Lambes, and therefore it is god to let them goe with company for anoiding that perill: they goe with Lambe one hundzeth and fiftic daics, oz five moneths: fuch as are afterward lambed, are fieble and weake, and fuch were of the old ingiters called Cordi : for the most part they bring but one Lambe a piece, yet oftentimes two, and if they be well fed, fire at a time. It hath beene feene in Gelderland, that fine Gives have had in one piece fine and twentie Lambes: it map fieme perade uenture to many incredible, and pet no great maruaile, lince they have twife a viere most times two, and sometime fire at a time. The Shephcard must be as carefull as a Didwife in the yeaning time, for this pore creature ( though the be but a Shiepe ) is as much tozmented in her delivery, as a threw, and is oftentimes the more dangeroully bered and pained in her labour, in that theis ale together without reason: and therefore it behoueth the Shene heard to be failfull in medicining of his cattell, and fo cuming a Ditwife withall, as if nied require he may helpe his Owe, what banger foener happen. The Lambe as some as he is fallen, mult be let on fate, and put to the dammes boder, and oftentimes his mouth held open, the milite must be milked in, that he map learne to fucke, but before you doe this, you must be fure to milke out the first milke called Colostra, whereof I will speake hereafter: for this, except some quantitie be drawne out, both hurt the Lambe: if the damme die, you must fuckle it with a home: if the Lambe will not of himselfe sucke, he must be put to it, and his lips. annointed with fwet Butter, and Swines greafe, and fealoned a litte

Ifffle with fivet Wilke. As some as they are lambed, they must be thut by together with their dammes, wherby both the damme map cheriff them, and they learne to know their dammes. Afters ward, when they beginne to ware wanton, they must be severed with Pardelles: 03 ( as Varro writeth ) after ten daies they must be tied to little stakes with some gentle stap, for hurting of their joints, and waring leane with to much play. The wead ker must be severed from the Gronger, for hurting of them. And in the Morning betimes, before the flocke goe to palture, and in the Quening when they be ful, the Lambs muft be put to their dams: and when they ware firong, they must be fed in the house, with Clouer, and sweete graffe, or else with Branne, and Flowie. And when they have gotten greater Arength, they must be let out with their dammes about none, into some sunny and warme Close necreadiouning. In the meane time, you must not deale with the milking of Ewes, so shall you have them to beare the more woll, and bring the more Lambes. When the Lambes are taken from their dammes, god had must be had, that they pine not away: and therefore they must be well cherished in their iveaning time with god patture, and well kept, both from cold, and extreame heat. Pow after that they have forgotten the voder, that they care not for their dainmes, then Gall you let them feed with the flocke: howbeit in most places the Lambes are suffered to feed in the flocke together with their dammes, and to fucke till haruest time, till the dammes themselves doe weave them. Varro would have you not to geld your Lambes bnoer fine monethes olo, and that in a feafon neither to hot, not to cold : but experts ence teacheth bs, that the best gelding is bnder the damme when they be poungelt: for in the elder (as in all other beauts) it is dangerous. Those that you will keepe for Kammes, you must take from fuch Ewes as ble to have two at one time. The best pasture for theepe, is the Grasse that is turned by with the Plow, and groweth byon fallowes: the next is that, that groweth in day Dedoowes: the marify ground is to be refused, and that which groweth nære buto Lakes and Fennes : the plaine and the champion Fields and Downes, are best for the delicatest and fis nell twolled Shiepe. To be thoat, the thoater and finer the Graffe is, the mater it is for Shape : and yet is there no pasture so 联 4

god, 02 fo fine, but with continuall ble pour Shape will be wearp of it, except the Shepheard remedie this fault with giving them Salt, which (as a fauce to their fode) he must fet readie in Summer when they come from patture, inlittle troughs of woo. by licking whereof they get them an appetite both to their meate and their drinke. For where as Shiepe wareth sometifat with watering (Aristocle affirmeth) pou must in Summer every fift day let them have Salt, a pecke to every hundred : fo shall your there be alwaies healthy, ware fat, and vield you plenty of milke. Pozeouer, against the Winter rotte, or hunger rotte, you must pronide to feede them at home in Tratches. They are best fed in the warmer countries, with the leaves and brousings of Elme and Alh, and the Haie that is made after Harnest in the end of Summer because it is softelt, and therfore sweeter than the other. With what hede and carefulnelle this cattell is to be fed, Virgil declares, who wils a regard to be had of the time, both of their watring, and feeding.

When Summer faire with Westerne windes doth call, Your lustie flockes to woods and pasture send Betimes, when day doth spring and ouer all The gladsome gratse the hoarie dew doth bend. From thence when as the fourth houre of the day With lostie Sunne doth make them drie to bee, To wels or waters deepe go take thy way, And make them drinke in troughes of Oken tree.

But in the name time, and the heat of the day, you must drive them to the vallies, and shades, (as he saith) a little after.

Wherefoeuer of Ioue the ancient Oken tree,
His broad and mightie branches spreads, or where
In facred Groues of Holmes the shadowes bee.

After when the heat is pair, you must drive them agains to the water, and so bring them agains to field.

When Sunne is set, and Evening starre appeares,
Then cooles the aye, and devie Moone shee cheeres.
Varroassirmeth, that they divided their passuring times in Puglia after this manner. First they put them out to passure betimes in the Mooning, when as the dewie grasse both farre creed in pleasantnesse, and sweetnesse, the Brasse that being burnt sweet

the heat of the Sunne, is over day. About none againe, till it ware coler, they are to be driven buder some cold, or watrie rocks, and broad Madowed trees, and toward the evening be fuffered to feede till Sunne let, alwayes hauing regard, that in their defuing, ther heads be from the Sunne : for no beaft is fo tender headed. Within a little after the letting of the Sunne, they muft be bais uen to water, and after luffered to feede againe, till it be barke : for then is the Pafture fwateft. This order is to be obserued from the rifing of the leaven Starres, and the leffer Dogge, till the later Aquinoctiall. The like both Columella and Plinieteach. that after the rifing of the Dogge, the flocke muft afoze none be driven Weltward, and fiede with their face toward the Welf. and afternone they mult be brought againe Castward. The fields whence the Tozne is newly had off, is good to pasture them for two causes; both for that they are well feode with the leas uings of the Geaues, and that with the trampling of the Erawe, and dunging, they make the ground richer against the next sows ing : but our Countrey men doe not well like, that Shape Mould fiede bpon the earcs of Wheate. The Patturing of them in the other fealons, as Minter, and the Spring, differs in this point: that they put them not abroad till the Sunne have drawne by the dew, and hurtfull vapours of the ground, and fo fiede them all the day long, thinking it sufficient to let them dainke at none: but our husbands ble not to luffer their fiche to fede abroad in the Summer time, neither before the Sunne riling. nor after the fetting, by reason of the dew, being more hurtfull in Summer, then in Winter. In Winter, and the Spaing time, they keepe them in a Fold, till fuch time as the Sunne hath brawne by the Rimes, and houre Frofts from the Fields: for the frottie graffe, at this time of piere, ftops their heads with Rhume, and fils their beilies full of water : and therefore in the rold and wet featons of the piere, it is enough to let them brinke once a day. Pozeover the Shepheard, as also the heper of all cattell, mate deale gently and louingly with their flocke, and comford ting, and thering them with finging, and whiffling: for the Arabians (as Alianus writeth) do finde, that this kinde of cattel taketh great velight in Quicke, and that it doth them as much god as their Pacture. Belide, they mult be well ware in the driving of them

them, and ruling of them, that they guide them with their voice, and Chaking of their staffe, not hurting, not hurling any thing at them, not that they be at any time far off from them, and that they neither lye not fit: for if they goe not forward, they must Rand: for it is the Shepheards office to Rand alwayes as high as be can, that he may playnely and easily discerne, that neither the flow, not the great believed in lambing time, not the quick, not the linely, while they roame, be senered from their fellowes: and leaft some thiefe, or wilde beaft beguile the negligent Shep. heard of his cattell. Df their Patturing, I thinke I have spoken sufficiently; and therfore I meane now to thew you of their Hous fes, or Shiepcoats, whereof there ought to be a speciall regard, that they be conveniently placed, not subject to windes, noz Rozmes, and that they rather fland toward the Caff, then toward the South. Columella would have them built low, and rather long then broad, that they may be warme in the Winter, and that the ftraightnesse of the rome hurt not the young. And befide, he would have them Kand toward the South: for this beak (though his garments bie warme) cannot away with cold weas ther, neither yet with the great heat of the Summer. I have fæne some Shæpe-houses so framed, as they have had their gates toward the South, and toward the Cast, that they might answere to the seasons of the piere. Golumella would have the Douse set toward the South, and on the backe-fide a close Pafenres, where they may fafely take the ayre. You must loke besides, that where they fland, the ground be made fayze and even, something hanging, that it may be cleane kept, and that the vaine may be well boyded away: for the wetnesse hereof both not onely hurt, and corrupt their fixte, but also spoyleth their coates, and maketh them ruffe and ill fauoured. Let there be no morfture therefore, but alwaies well strained with dzie ferne, or straine, that the Ewes that be with young may lye the softer and cleaner. Let their beds be very cleane; for the cleaner they lye, the better they feede: let them in any wife be well fed, for a small number (as I said befoze) well fed, yello moze profit to their Paister, then a great flocke barely kept. Pou muffalso have severall partitions to keepe the weaker and the ficke, from the Arong and knruly. And thus much of housed shape, that are every day brought

home:

Sheepe coats.

home: but in some places they are kept abroad, sarre from either towne or house, in Forrests, and open wilde fields and downes: in these places the Shepheard carryeth with him his Pardles, and his Pets, and other necessaries to fold his slocke withall. In the desart fields, when as the Winter pattures, and the Summer pattures are distant certains miles asunder (as Varro saith) his would have the clocks that have wintred in Apulia, to be kept in Summer upon the Hountaines of Kiete: and Virgill thus with teth of the Shepheards of Lybia:

What should I here of Lybian Shepheards tell,
Or of their Pastures write, and dwellings poore,
That night and day on Downes, and Desarts dwell,
Where wanders still the Flocke without the doore:
And on the ground doth lye the Shepheard heare,
While he remoues with him continually
His house, and all his household goods doth beare,
His staffe, his dogge, and all his armory?

The like have I my selfe seine in Swytzerland, and other places of Germany, where the Shepheard, lying kill abzoad with his flocke, folds his skepe in the night with Pardles, tying their dogges about them for watchmen: the Shepheard himselse in a little house byon whieles, skepes hard by his charge. The skepe of Greece, Alia, and Toranto, and those which they call, Covered Shepe, are commonly vsed to be kept in houses, rather then as broad, for the excellencie and finencise of their woll.

EVPHOR. What times doe you appoint for the Chearing of

pour Shape ?

Hed io. The times of shearing, are not in all places one, Shearing but varie, according to the disposition of the appe, the cattell, and of Sheepes the countrey: the best way is to have god regard to the weather, as the sheepe be not hurt by shearing in the cold, nor harmed by fordearing in the heate. In some places they have two seasons in the piere for shearing of their sheepe: the first season for their shearing, is either with the beginning of Pay, or else with the ending of Aprill: the second season of their shearing, is about the beginning of September. Such as doe vie to sheare their

thepe but once in the yere, do commonly appoint for their leafor the tenth of the Poneth of June: about which time also such as doe theare twife a piere, doe theare their Lambs. Thie dates before you theare them, you must wash them well, and when they be full brie, you map theare them: they doe not in all places theare their thepe, but in some places (as Plinie saith) pull them. The old Dusbands of account for the best Moll, the Moll of Puglia, and that which in Italy was called the Greke Flece: the nert in gwonesse they twke to be the Woll of Italy: in the third place thep estemed the Milesian flece: the woll of Puglia is but thost, and mete to be worne onely in riding Cloakes. The woll about Toranto, and Canas, is thought to be passing good: but the best at this day is the woll of England. The finer your Pasture is, the finer (as it is thought) you thall have your woll. The woll of such thep as are slaine by the Wolfe, and the garments made thereof, (as Aristotle faith) are aptest to bace Lice. If pou happen in the Mearing to clippe the fkinne, you most forthwith annoint it with Tarre: when you have thorne them, some thinks it god you anoput them with the tupce of fooden Lupines, Las of old Wine, and the dregges of Dyle made in an opntment: after the dates to walh them (if it be niere you) in the Sea, oz if the Sea be farre of, with raine water, sodden with Sait. And being thus ordered, you hall not have them to lofe their woll all the piere, but to be healthie, and to carry a diepe and a fine fliece: and therefore Virgill brodes pou,

Goe plunge them oft in healthy streames.

There be some againe, that would have you to annoint them there dayes in the piece, the dayes being some after you have washed them with Dyle, & Wine mingled together. Against Serpents, that many times lie hid binder their cribs, you must burne Cedar, Galbanum, or womans Payre, or Parts horne: in the end of summer is your time for drawing and severing of them (as I told you before) when you must sell your sheepe, that through sevenesse, they sayle not in the winter. Beside, killing one or two of them, you must lake well byon their Liners, and if the Liver be not sound (for thereby is sor seene the danger) then either sell them, or satte them, and kill them: for very hard it is to save them their Liners being perished. Insected Sheepe are more

Subice!

subject to scabbes and manginesse then any other cattell, which commeth (as the Poet witnesseth:)

When coldelt stormes doe wet them neare,

And hoary frosts on ground appearc.

Drif you wash not off the sweat of the Summer with salt was ter: or otherwise, if when they be shorne, you suffer them to be hurt with brambles, or thornes: or if you put them into houses, where either Porles, Dules, or Asses have stode: but specially lacke of god seding, whereof proceedeth porenesse, and of porenesse scabbes and manginesse. The sheepe that is insected is thus knowne, Is he eyther scratch, stampe with his sote, or beate him selse with his horne, or rub himselse against a tree: which perceiving him so to doe, you shall take him, and opening his woll, you shall since the skinne russe, and as it were itchie. Divers men have divers remedies for this maladie, but such as are not at hand to be had: Virgill thinks there is no presenter remedie

Then at the first to clippe away the sore: For being hidde, it festreth the more.

Constantine out of Dydimus affirmeth, that the scabbes of Sheepe are healed by walking them with brine, and after annointing them with Brimstone and Dyle. The common Shepherds, when they perceive a theepe to fall a rubbing, they fraightwaics take him, and hedding the havee, doe feare the place with Tarre: others doe teach other remedies, more hard to come by, which are not for enery Shepheard, nor enery Countrey to ble. And if the whole Flocke be infected, it doth many times fo continue, as it thall be nædfull to change houses, and (which in all other diseas fes behoueth) both Countrey and ayre. This one alonely medicine have Jalwaies proved for the kieping in health of this cattell, to be most present and soueraigne: Take the berries of Juniper beate them small, and sprinchle them with Dates and Balt, mingle them all together, and give it your Shape them or foure times in the piere: for though they refuse to eate the Juniper berries of themselues, pet for the desire of the Salt and the Dates, they will easily take them all together. If they be lowfie, or full of tickles, they ble to beate the rotes of Paple, and listhing them in water, and opening the woll with their fingers, they power the liquour, so as from the rioge of the backe, it runne over the body. Dthers.

Dthers vie the rate of Mandrake, being well ware that they fulfer them not to taft it. If they have the Feuer, you muft let them blod in the hele, betwirt the two Clas, which the Boet teacheth, faping:

It eafeth ftraight the flaming feauers paine,

If in the foot you strike the spinning veine. Some let them blod binder the eies, fome behind the earcs. The fowle, a difeale betwirt the Clas, is taken away with Harre, Al. lom, Baimftone, and Meneger, mingled together : 02 powder of Merdigreale put upon it. The swelling betwirt the two Clies. must be cut with great warinede, least you hap to cut the worme that lieth in it, for if you doe, there commeth from her a hurtfull matter, that poploneth the wound, and maketh it bucureable. Das Her Fitzherbert, a Bentleman of Porthamtonihire, who was the Fiezberbere first that attempted to waite of Bulbanday in England, appoins for curing teththis cure : his words bethele. There be forme Shape that of Sheepe. haus a worme in his fot, that maketh him to halt, take that there, and loke betwirthis Clies, there you hall finde a little hole, as much as a great pins head, wherein groweth fine oz fire blacke haires, like an inch long, or more : take a tharpe pointed knife, and Ait the fkin a quarter of an inch long about the hole, and as much beneath, and put thy one hand in the hollow of the fot, bnder the hinder Cle, and fet thy thumbe aboue, almost at the flit, & thrust thy finger binderneath forward, and with your other hand, take the blacke haires by the end, or with thy knines point, and pulling the haires a little and a little, thank after thy other hand, with thy finger & thy thumbe, and there will come out a worme, like a piece of fleth, nere as big as a little finger: when it is out, put a little Tar in the hole, tit will thostly mend. If they happen by the extreame heat of the Sunne to fall downe, and to forfake their meat, give them the inice of the wilde Bete, and cause them beside to eate

beaten with Wine, and powied a prettie quantitie into their nothails, remedieth them. A Shiepe, og Swine, that hath the The Mur- Durraine of the Lungs, pon thall helpe by thausting through their eare, the rate of Setter wort : this licknelle doth commonly raine of the Lungs. spring of want and scarsitie of water, and therefore (in Summer

the Bests. If they harply ogain their breath, flit their eares, and let them bled. If they be troubled with the Cough, Almonds

time (pecially) you must suffer no kinde of Cattell to want was ter. Their legges, if they happen to be broken, are to be cured in like fort as mens be, being wrapped first in woll dipped in Dyle, and Wine, and afterward splented. The young Lambes, and Lambes. other Shiepe, also while they goe abroad, are troubled with scabs and mangineffe about their lippes, which they get by feeting bpon dewie graffe: the remedie is Pplope and Salt, of each a like quantitie beaten together, and their monthes, their pallats, and their lippes rubbed withall : the bleerous places mult be annointed with Mineger, Marre, and Swines greafe. If they chaunce to Eating fwell with eating of any Mozme, or benemous graffe, you wall wormes or venolet them bloud in the beines about the lippes, and bnder the mous taile, and after powe into them Chamberlye. If they happen graffe. to swallow a Horseleach, poince into them Arong and tart Wis neger warme, og Dyle. Against the Burrion, og the Rot, I have fiene ginen them, certaine sponefuls of Wzine, and after a little Marre: this medicine was vied by Paifter Iohn Franklin of Maifter Chart in Bent, who was in his life time a skilfull husband, and a lin. god housekæper. In like sozt hane I fene this medicine : Take for enery fore, one peny-tworth of Triacle, and like wife one little handfuil of Wemplede, ground Juie, Elder leaues, and Fethers fein, as much as a Denisball of Loame, and as much Bay fait, put thereto Chamberlie, fa little Sote, make it all luke-warme, and give to every one their sponefuls god, and after every one a little Tarre, before they goe out of hand. In some places they ble to take the dived floivies of Moimewod, and mingling them with Salt, thep gine them to their Miepe, as a generall medicine against all discases. This medicine is commended by Hicronimus Tragus, both for affinaging of any paine, and driving as may any hurtfull difeates from Cattell.

EVPHOR. God Hedio forget not to speake something of

pour Goates.

HEDIO. Coates have many things common with Shiepe: Goates. for they goe to Bucke at one time, and goe as long with young, as Shope doe: they polo commoditie with their flelh, their Wilke, their Chale, their Skinnes, and their Bayze: the Baire is profitable to make Ropes of, and Packes, and divers like in-Aruments, belonging to Sea-men, by reason that it neyther rots with ...

with moisture, noz is easily burnt with fire. Varro maketh mention of two fortes of them, a heary fort, and a smooth. Such as have Wennes, or Wartes, bnder their chinnes, are taken to be most fruitfull: their Movers would be great, their Wilke thicke. and the quantitie much. The hie Boate would be fofter hapzed. and longer, his pecke thoat, his Throat boll deper, his Legges fleshy, his Cares great and hanging : it is thought better to buy the whole focke together, then to buy them severally. At the Thinne of every one of them hangeth a long beard, which Plinic calleth Aruncum, by which, if any man draw one of them out of the flocke, the whole flocke (as amazed) fand gazing bpon him. The hie Goate, because of his beard, and as (Alianus fapth) by a certaine instinct of Pature, preferring the male before the female, goeth alwaies befoze his woman. The bargaining for this Cattell, is not after the manner of bargaining for Sheepe: for no wife man will promife that they be free from fickeneffe, being as they be, never without the Ague : but he affures them that they be well to day, and can drinke. One thing is to bee wondzed at in this Beaff, that he draweth not his winde as all other bealts doe at his Pole, but at his Cares. The belt kindes of them, are those that bring forth twife a piere, and such you must fæke for pour brede. The Boate is able to engender at feauen moneths olde, being euen as lecherous as may be : foz while he is pet fucking, he will be boon the backe of his damme: and therefore he wareth feeble, and bnable, before he be fire peres olde, being noto foked and confumed with his overtimely luftineffe of his pouth : and therefore after he come to be fine pere olde, he is no longer to serve pour turne soz bzies. The time when you shall fuffer them to go to rutte, is in Autumne, a little befoze December, that at the comming of the Spring, and blossoming of the trees, the young may he brought forth. The Boate goeth with young (as I fato) fine moneths, as the Shape both : the brings forth commonly two, and sometime are (as Plinic witnesseth.) Such as beare twife, you must keepe for your stocke, for the renuing thereof, and the encreace. As touching their beeding, you must in the end of Autumne sener your he Goates. The young Boates of a piere old, and two pieres, bring forth kilodes: but (as Columella faith) they are not to be suffered to bying them bp,

ercent

ercept they be their yiere old: and therefore you must away with the young, that the Goates of the first peere may breed : and fuffer the kidde of a two peere damme, to sucke no longer then it is meete to be fold. Withen the Kiddes are brought forth, they must be brought by in like fort as I told you of the Lambes: fauing that the wantonnelle of the Kidde is moze to be reftrais ned and hedlier to be kept in, and must be fed beside their milke, with young bowes. Plinic affirmeth, that they be fearce good for brede at three yeares old, but if they passe foure, they be Carke nought, and that they begin at seauen moneths, even while they be under the mothers breakt. The first riding prob pereth not, the second is somewhat to the purpose, the third spredeth, the brings forth, till the be eight yers old, and therefore the the Goats, when they be abone eight yers, is not to be kept : for the then becommeth barraine. Those which want hornes, (as in the male kindes ) of all others be the best: for the hore ned, by reason of their weapons are hartfull and burnly. Besides, the female of such as lacke homes, doe give alwaies greater plens tie of milke : but Columella ( as he commendeth the Pollardes in a temperate and milde countrey) fo in a boyfferous and a ffo29 mie Region he would have them horned. Such as have hornes, doe them their age by the circles of their homes: it is thought, that they fee as well by night, as by day, and that they alwaies leg their faces turned one from the other, and in that order also fiede. Told (as it is faid) is very hurtful to this kinds of cattell, specially to those that be with young, as likewise the extreame heate. The wit of this beaft Nurianus reporteth, he once had experience of, whereas a couple of them chanced to mete byon a very long and narrow Bzioge, and the ftraightneffe would not fuffer them to turne, and to go backward blindfold in fuch a ftraight, confidering the swiftnesse of the streame bnder them, was moze buposible, the one of them lying downe the other passed over his body. Varro both commend fundzie little flockes kept feuerall, rather then great flocks together, bling foz erample one Gaberijus, becaufe a great flocke is foner fubica to the murraine, thinking fiftie to be enough for one flocke. Columella alfoaffirmeth, that there ought not to goe aboue one hundred of them together, whereas of Shiepe he alloweth a thousand in one flocke. The bitting og bauifina

fing of them, is poplon to all kinde of Ares, and therefore were they in old time facrificed to Bacchus, because they were so hurt full to Times. Their Cables Columcila would have to Cano bus on a fronte ground, or elfe to be paued, for this beaft nedeth ne thing bnder him but a few boughes: when he lieth abroad, the Shepheard must often sweepe and make cleane their houses, not fuffering any dung, or moissure to remaine in them, that may be hurtfull to the flocke : for as I faid before, they are feldome without Feauers, and much subica to the pestilence. And where as other cattell, when they have the Purraine among them, as fone as they be infected, begin to languish, and pine away: once ly these Goates as some as they be taken, though they be never to luttie to loke bpon, subdenly fall downe together, and die as thicke as Daile: which disease both chiefely happen, by to much rankenelle of patture. And therefore as some as you perceive one or two of them fall downe, let the whole flocke blood with as much speed as poumay, and suffer them not to feed all the day, but that them by the foure middle houres of the day. If they be diseased with any other ficknesse, you must give them the Rotes of Rices, and of the great white Thiffle, Camping them with your peffles, and frainco with raine water let them dainke it : and if so be this medicine heale them not, your best will be to fell them, or to kill them, and powder them: and when you buy no kn, bying them not home too halfily, till the offpos fition of the ayze be altered. If they fall fenerally ficke cure them. in such sozt as you doe your Shiepe. Florentinus laith, if you Camp with water the guilard of the Stock, and give them to beink a sponsfull a picce, it preserveth both Shipe and Goats from all murraine and peffilence. If their bellies be swelled with was ter, which the Orccians call idagaa, the Deopley, if the Chinne be lanced a little binder the Moulder, it lets out the hurtfull mate ter, and you may heale the fore with Tarre.

EVP HOR. Pouhane soz your part very well satisfied vs, fourthing the god exdering of your cattell; there remaines pet one thing for you, which you all forgate to speake of, and that is

the ordering of Milke, our chiefest sode and suffenance.

HEDIO. Sixing that of this cattell whereof I haucentreas ted, the profit of the Wilke is not finall, it is no great reason we

Milke.

mould overpatte the ordering of the same : for Wilke (as Varro faith ) of all liquid things wherewith we fiede, is the greatest nourither. Wilke differeth in godnelle according to the nature of the bodies that give it : as the Wilke of Momen, of kine, Shieve. Boates, Alles, Pares, and Cammels : the greatelt nourifier is Momans Wilke, the next Boates Wilke, whereby the Poets faine, that their God lupiter himfelfe was nurfed with Boates Wilke : the Iwetell nert Womans Wilke, is the Cammels Wilke: the wholesomett is Alles Wilke, the Alle as fone as the is with Colt, giveth milke: the Cow, never till the hath calued : molt comfortable to the Comacke is Goates milke, because he rather feedeth on Wants and Bowes, than bpon Bratte. Cow Wilke is most medicinable, and most of all lwfeth the bellie. Shepes Dilke is Iweter, and noarifeth moze, but is not fo god for the Comacke, by reason it is fatter and groffer. All Wilke that is milked in Spring time, is watriffer then the milke of Summer, as likewife is the milke of young cattell: it is Wholesomer being soden, specially with the Prebbles of the Sea. The Shape about Pontus, nære to the riner Altace, doe giue (as Blacke Plinie faith) blacke milke. All milke generally ( as Dioscorides milke. writeth) is of god nouriffment, but filleth the Comacke and the Error in belly with minde : that which is milked in the Spaing, is thinnest the voderbut loseth the belly most. The difference of milke, is taken (as of Diosec-Varro faith) of the pastures, the nature of the cattell, and the mile rides, king. Dithe paffure, when the cattellis fed with Barly-fraw, and all other hard and day meats, and this greatly nourisheth. Foz purging of the belly, the graffe pattures, specially where the cate tell feed of purging hearbes, as Cardanus in his boke de Plantis teacheth, that if you will purge Belanchoip, you must feed pour milch Boate, oz Affe, with Polipodi, and foz all other humours Sene, for the Dropfie with Spurge, or Agaricke: for clenting of the bloud, with funitory, or hoppes: and if you will but one y lofe the belly, with Wercury, 02 Wallowes : fe farre Cardanus. Dar countepmen doe chiefely commend for milke, the pattures where groweth Sperp, and Clauer-graffe, and that is all bedeckt with peliow flowers. For the cattell, the difference is betwirt the ficke and the healthie, the young, and the old : and for the milbing, that is best that is not long kept after the milbing, not that

Butter.

that is milked immediately upon the Calning, a groffe bulbole. fome kinde of Dilke. To trie whether Wilke be mingled og not. pon shall take a sharpe Kulb, and putting it into the Bilke, letit drop from thence byon your Paile, and if the drop runne abroad. it is a figure there is water in it : if it keepe together, it thelves it to be pure and good. Df Wilke is made Butter, whose ble (though it be chiefely at this pay among the Flemings ) is pet a god and profitable fode in other Countries, and much be fed of our old Fathers, rea even of the very Patriarches (as the Scriptures witneffeth.) The commoditie thereof, besides mas ny other, is the affwaging of hunger, and the preferuing of Arength: it is made in this fort. The Wilke, as some as it is milked, is put out of the Paile into Bowles, or Pannes, the best are earthen Pannes, and those rather broad then deepe: this done, the fecond, or the third day, the creame that fwimmes aloft is fleted off, and put into a beffell rather deepe then big, round and Cilinder falhion : although in some places they have other kinde of Charmes, low and flat, wherein with often beating and moning by and bolone, they fo thake the Dilke, as they fener the thinnest part off from the thicke, which at the first, gathers toge ther in little crombles, and after with the continuance of the bios lent mouing, commeth to a whole wedge, or cake: thus it is taken out, and epther eaten fresh, oz barrelled with Salt. The Buttermilke that remaineth of the Butter, is epther kept for the family, or given to Calues and Hogges, as a dainty food. Chefe is alfo made of the Wilke of cattell, the Wilke being powied into a Tick fell of earth, putting into it a little rennet, the quantity of a Walnut, in a great beffell of Milke, whereby it runneth into Eurd. Varro both better like the Mennet of the Leuret, or the life, then the Lambes: howbeit, we commonly bee the Calues Kennet: others ble fundaie other meanes, onely with heate, warming it in Time bellels, and after dipping those Wellels in cold water, which is the sweetest and cleanliest manner : others put in the seede of wilde Saffron, and being so turned, the Whey doth greatly purge fleame: others againe vie the Wilke of the Figge tree, and then doth the Whey purge both choler and fleame: some purge it with Drimell, or syrope of Aineger, which is of all other waies the wholesomest: some besides, vie the little Skinne

Cheefe.

thinns of Birds Guilards, and others, the flowers of wilde Thittles, or Partichokes. The neiver and better the Wilke is, the better will be the Chefe: for made of two forts of Dilke, or Wilke that is too neere fleted, it foone foluzeth, and wareth hard and nought, and is not to endure any while. Againe, being made of fat and new Wilke, it will very long endure, and long confimueth in his fatuelle and softnelle : about a two or three houres after you have put in your Rennet, the Wilke commeth to a Curd, which is Araight wates put into Formes, or Theeles fats, and preffed: or if they be but small, they are onely preffed with the hand. If they be of any quantitie, they have great waight bronthem: it is very nædfull you presse out the Whap with as much freed as you can, and to fener it from the Curd, and not to let it lie flowly drawning of it felfe. Those that make great Thefes, have moulds for the purpole, and Waights and Dreffes answerable. After this, they take them out of the Wiese, and lap them byon Herbels, or faire smooth Wables, in a madowie and a cold place, and close from all windes, sprinckling them all oner with Salt, that they may flueat out all their fowzeneffe, laye ing them lo, as they touch not one the other. When they be now well hardned and thickned, they are taken by, and preffed againe, with great weights, and rubbed over with parched Salt, and als ter laid in presse againe, whereby it is thought they will neve ther have eves, not be over die: which faults hapneth to come when they be eyther not well preffed, or too much falted. Some ble to put into the bottome of their Pailes , the græne kernels of the Dine Apple, and milking into them, doe cause it so to turne. Dou may also cause your Chese to relish of whatsoever you will. as Depper of any other Spice: but Columella counts that for the best Cheefe, that hath least mirture in it. The Arongell Thele, and hardeft of digettion, are those that are made of Buffes mike: the next are such as are made of the milke of Gwes, but the mildelf, and lightest of digestion, are those that are made of Boates milke : the Cheele that is made of Parcs milke, is of the same qualitie that the Buffes Chefe is. There is Chefe allo made of Cammels milke, and of Alles milke : the Cheeles that are made of Buffes milke, are at Kome, of all other cattell in greatest estimation. Such as are touched both above and beneath. 50 3 and

and have moze then foure Pappes, you can make no Chefe of their milke, for it will neuer curd. In our daics, the best Chefes are counted the Parmalines, made about the River of Po, e fræmed for their greatnesse, and daintinesse, of which you shall have brought into other countries that weigh aboue threscore pound. Pert are commended the Holland Chafe, the Chafe of Pozmandie, and the Englith Chefe. In England the bett Cheefe is the Chesthire, and the Shapshire, then the Banbury There, nert the Suffolke, and the Eller Chefe, and the very worft the Kentilh Chale. The places where the best Chale is made, appeareth by this old English Distichon, better fensed, then foted.

Banbury, Langtony, Suffolke goo Cheele, Eller goe thou by, Shaopshire: eum Thesshire, Bertfozd may wel with the best pere. Df the discommoditie of Guer Cheste, our Englith Partiall

Iohn Haywood, thus merrily writeth:

I neuer faw Banbury Cheefe thicke enough, But I have seene Essex Cheese quicke enough.

Chefe they say will best endure, and is longest preferned, if pour keepe them in heapes of Pulle, of Wheat. and if you Keepe your Rennet in the ingce of Byzch, you shall be fure to have neyther Dite noz Troper in pour Cheele. The Cheele that is foft and new, both moze nourith then the daie, and be moze comfortable to the Comacke, not long in digetting: the old is contrarie, accozding to the proner be. Po Cheese good but thenew. Dlo Cheese will become new in tatte, if you lay them in Time, Aineger, 02 in Wine: if through age it be hard and bitter, let it be rubbed oner with speale of bnozied Barley, and then dip it in water, and after, the outer rinde scraped off. We have oft times proved, that hard Cheele waapped in Clouts wet in Aineger, 02 Mine, and oftentimes sprinckled with Wine, and so laid by, returne to a softnesse, and a very pleasant taste. Some lay it in Leauen, co. vering it close therewith, and thereby make it foft. It is report ted, that zoroastes lined twentie pæres in wildernesse with Cheele so ordered, as it never wared old.

EVPHOR. Of the Tahey that commeth from the Cheele Welcords, being foo with a foft fire, till the fatnette of the Cheefe fwimme

aloft, are made Welcurds.

HEDIO. Bon were wont to love them well.

EVMEVS. I doe indeede, specially if there be god stoze of new History to the They. The old writers doe teach the masking of a kinde of white meate, not much busike to Telcurds, which they called Mclcan, and made it in this sort. They put into Mclcan, a new earthen bestell Aimeger, and suffered it to boyle softly by bon the five, till the bestell had drunke by the Timeger, and into that bestell they polored in Pilke, and set it where it might stand stedfall, whereby they had within a while their desire. But me shinketh I have for my part done enough, it commeth now to your turne EVMEVS to goe forward with the rest.

EVMEVs. That the keeping of Swine belongeth to Hule Swine.

bandzie, both euidently appeare by the faving of the ancient hule bands, counting him a flothfull and an buthaifte hulband, that bath his 15 acon rather from the Butcher, then from his owne Roofe: for there artieth as great profit many times to be of our owne Swine, as both to you that be keepers of greateft cattell of your flockes : for if Bacon be away, the chiefest fups porter of the Hulbandmans kitchin is wanting. And whereas Swines fleth læmeth abhominable to thefwlith Jewes, I bes læne verily they never taffed the Bamonds of France, to highs ly commended by Varro, Strabo, Atheneus, and other learned writers : which I suppose were none other but the flitches of Weltphalp, lo greatly eftemed at this day, not onely in Germas nie, but in Rome, and that they were called by the names of Celticke Bamonds, because the old writers, especially the Breeks called all Countries on this fide the Alpes, both French and Dutch, by the name of Celticke. Surely there is no beaft bestoes. that makes more vaintie diffes, there is in him nere fiftie diffes rent taftes, where enery other beaft hath but one, and bereof caine at the first the harpe Law of the Censors, forbioding it to be bled at suppers, the Moders, the Stones, the Artpes, and the forepart of the heads of Swine, (as Plinic witnesteth.) And most apparant it is, that not onely the French, and the Dutch in those dates but also the Italians, and the Greeks, nourished great heards of Swine. Among the Brækes, Homer maketh mention of one of my name, that had twelve Hogitpes, every Stye containing fiftie Porklings, and Polybius writeth, of more

then a thousand to be readient a time among the ancient Italia ans, Tuskans, and French. Varro accounteth a hundled but a fmall heard. Those will nourish Dogges, must have regard both to the fairenesse, and the age. Varro aboth beside the nature, the kinde and the countrey. And because the young doe come monly refemble their parents, he would have you chose such as are faire, and large bodied, and which makes most to the matter. as fruitfull as maybe: which Varro, both chiefely commend those that be of one colour, their briffles would be thicke, and blacke, if it be in a cold countrey: if in a temperate, you may nourith the fmoth. Their proportion would be long, large-fibed, and bels led, wide buttocked, thoat legged, and foted, bigge necked, and well brainned, thort groined, a turning byward, his taile wrinche led. The kinde is most commended, that bringeth many Wigs, the countrey that breadeth large and great : the best age for the Boare, is a piere old, though at halfe a piere old they are able to ferue a Sow: one Boare is enough for tenne Somes, and more. The Sow is lufficient to bring Digges at a piere old, and fo for feauen piere after, the fruitfuller the is, the fonce the wareth old: at the first farrowing, you shall easily see what number she will bying forth : the will not much differ in the other. The best kinde of Solves have twelve pappes, the common fort tenne. or not so many. Query Digge both know his owne Pappe that that he was borne too, and lucketh onely that, and none other: if you take away the Digge, the Dappe dzieth, as both Plinic, and experience speweth. They were wont to be bought and bargained for in this fort. Doe you warrant that thefe Swine are found, that I hall well enjoy them, that you will answere the faults, and that they be of a healthy breede? A wet moorth ground is mætelt for this cattell, for he velighteth not in water, but in durt and myze, so much (as Varro writeth, ) that the Wolfe, as soone as he hath caught a Solo, daggeth her to the water, because his teeth are not able to abide the heat of her flesh. And although this beaff will away with any ground, (for he fæ beth both in mountaines, champion, and marilly, yet his chiefe delight is in the woods that is fuil of quagmires, where there groweth Moze of Die, Coake, Wech, Baltholme, wilde Dlines, wilde Dates, Paselnuts, Crabbe tres, Plome tres, and Cherie

Cherie træs : for thefe beare fruit at divers times, and fied the Deards almost all the whole piece. There there wanteth woods, they must be fed from the ground, whereof a Parrish is to be preferred before a dry ground, that they may moufell in the Mard, eigge by Womes, wallow in the myze, and tumble in the puddles of water, which in Summer is most nædfull. Thep also hunt after rotes, specially Ferne rotes, and the rotes of Bulruthes, Luthes, and Sedges, belide god Graffe well feedeth a Slvine, and Dichards of Cheries, Plums, Apples, and Puts: and notwithstanding all this, the Barne, for you must fixe them often by hand, when meate fagles abroad: and therefore you must preferue Store of Acornes, in Celtornes in the water, or deped boon fmokie flores, alfo Beanes, Deafe, and Tares muft be given them, and not fo much as Barley spared : for this kinde offeening both make them faire, and not onely fats them, but gis neth the flesh a pleasant taste. Telhen they are yet young, and fucke, both they, and their Dammes must be well fed, they must be put to fiebe early in the morning, afore the heat of the Sunne, and after kept in Madolny places, where there is good floze of was ter. Afore they goe to palture, they mult be medpeined, left the Bratte fearre them to much, by which they will be greatly weaks ned. In Minter they muff not be put abzoad, till the froft be off the ground, and the Ife thawed. And though the Swine will runne at the knowne boyce of the Swineheard, pet Varro will have them brought both to pasture, and homeward, with the found of a Home: their meate must be given them stattered thin, so thall both lette fuffice, and the greater thall not harme the smaller : as some as they heare the Horne, though they be never to farre off in the TAwds, they come running with all hafte. Polybius telleth, that the Italians ble notto follow their heards, as the Grekes and others doe, but going a prettie way before them, they blow their homes, their Heards being acquainted with the blatt, doe follow them in great order. They doe to weil know, and obay the call of the Swineheard (if we may believe A won-Alianus, that when certaine Rouers, landing bpon the Coast of derfull Tuskan, and taking great numbers of them out of their Sties, know-carried them aboud, the thieues having weighed up their Anker, Swine. and being buder layle, the Swine bean the hearing of their

heepers

keepers boyce, suddenly ran to the one fide of the Shippe, and os nerturned her, whereby (the Pirates deoloned,) the Swine came fafe to land to their Paitters. As I have here told you of the conditions of the Boare and the Solve, and of their keeping; fo will I now their you the manner of their breeding: The 152es ming time is reckoned to be from Winter, till the twelfth of Parch, so thail you have them to farrow in Summer : for the Solve going foure Woneths with pigge, farroweth in the fift. She is with pigge at the first breming, but they ble to let them goe often to Boare, because they some miscarrie: and if you will have two farrowes in one piere, you must put your Dowe to Boare in Februarie, or Januarie, that the may farrow in Appill or Pay, when as there is god patture abroad, and Pilke is in his thiefe Arength: and when they be weaned, they may well feeds bpon fram, & grottens : and after, the Sow may farrem agains in the end of Autumne: for Varro faith, her farrowing times are so divided for the nonce, as the may farrow twile a yeare, while the bath foure Moneths to beare them, and two to feede them. As some as they bee with pigge, you must keepe the Boare from them : for with his burulineste, he maketh them to cast. Young Swine for breede, must not be leste then a yere olde, as Varro would have it: holobeit they begin at eight moneths, and contis nue leauen yeres. The Boare beginneth at eight moneths, 02 fire, and continueth well foure yeres, and after, at thee or fours peres olde, you may geld them, and fat them. Some would not have you keepe by above eight, others not above fire : not that the Sow is able to keepe no moze, but that the that keepeth moze, Cone fayleth. Varro reporteth, that the Sow of Ancas Lauinus, farrowed at one time thirtie white pigges: but it is monitrous when the farroweth moze then the hath paps. Query Sow mut have her Stie by her felfe when the hath farrowed, and not luffe. red to goe with the whole Beard, as other cattellare, but little Coates to bee made for them, wherein they may be kept epther farrowing, or with farrow: for Swine, if they lye together in any number, being commonly ill mannered, doe lye one byon another, whereby they hurt such as are with pigge. And therfozs poumust have severall Sties where they may farrow, and made high, that the Sow cannot get out : for conered they must not be

by any meanes, that the Swineheard may loke that the Sow so uerlay none of them, and to lie what they want, that he may make them cleane, and as oft as he cleanfethit, he must straw fand, oz fuch like, to date up the moissure : for though the be but a swinish creature, yet loneth this to have her chamber cleane. When the hath farrowed, the requireth greater quantitie of meate, whereby the may give the more Wilke, specially Barley fixped in water, or ground, and tempered with water. And if you have not god fore of meate, your best is to fell the Pigges: so shall the Damme, being delivered of her burden, be foner with farrow againe. Such as are farrowed in Winter, are commonly page and wretched, both because of the cold, and that their Dammes boe not like them for wanting of milke, and biting their Papps. If the Solve eats her Pigges, it is a wonder: for Swine of all other beafts, can worst away with hunger, which when it pronoketh, they eate not onely their ofone, but young children, which not long fince happened in Suffer, to the pittifull discom. A Childe fort of the Parent. They luffer not the Sow to goe abroad in eaten by a tenne dayes after her farrolving, ercept it be to dainke: after, they luffer her to goe about the house, that the may the better give milke. When the Pigges ware great, they defire to goe abzoad with their Dams, at which time they are fedde by them. felues apart, to the end they may the foner forget their mother, which they will voe in tenne vates. It behoueth the Swineheard to be carefull & diligent about his charge, that he have in memozy enery one of them, both old and young, that he confider every farrow, and thut by those that be great with pig, that they may fare row in their fie. De must have special regard of enery young pig, that enery one of them be brought by buder his owne damme: for if they get out of the Mie, they Araightwaies mingle one company with another, wherby the pore Soin is forced to give milke many times to more Digs then her owne: and therefore the Swineheard mult thut by enery Dam withher owne Pigs. And if his memory ferne not to know them all, let him pitch energ Sow and her Pigs with a severall marke : for in a great num. ber it hall behone him to to doe, for confounding his memorie. The olde Bulbands observed alwaies two times in the giere for sutting of them, the Spaing, and the fall of the leafe, whereby they aupines.

anopded the banger both of the heate and colo. The Boare pigs

they cut when they were fire Doneths old, and againe at foure pere old, to make them fatte, making the wounds, and taking out the frome of enery fide : 02 elfe when you have taken out one Stone, you must thrust your knife againe into the wound, and cuts ting asunder the skinne betwirt both the stones, draw out with your fingers the other, to thall you make but one fcarre: but this kind ofcutting is somewhat moze dangerous. The Sowes are spaide by burning the Patrix with an Fron, and the scarre hear led by, whereby they will both have no more pigges, and be the fatter. Aristorle, and following him Pline, would haue the Sow after two dayes falling, hanged up by the fore legges, and fo cut. whereby the will be the foner fat : but I judge it better to cutte them when they be young, at two Poneths old, or younger, for so are they in least teopardie. After they be cut, you must keepe them from deinke, and give them but little meate : the wound must be announted with fresh Butter, and sowed bp. As the writtling and turning by of the taile is a figne of a found Dogge. so be there certaine and affored fignes of their ficknesse: for if pou plucke off the briffles from the backe, and finde that their rotes have bloud in them, it thewes the Swine is not well. 15es Of discases fives, if pour Dogges be ficke, og taken with a feuer, they hang in Swine, their heads at one fide, and suddenly as they runne abroad, they Stap, and being taken with a turning giodinesse, they fall downe: and therefore you must marke well on which side they hang their heads, that you may cut the eare of the contrarie five to let them bloud: and binder the tayle belide, two inches from the rumpe, you thall Arthe the vaine, which there is easily to be fiene, by the bigneste of it : pou must first beate it with a little sticke, and after it swelleth with the beating, open it with your knife, and having bled sufficiently, binde it by with the rinde of Willow oz Elme : after this, keepe them bp in the house a day or two, and give them warme water, with a good quantitie of Barly flowige. If the Quinsey or Vuula, (to which disease this beast is wonder rous subject) chaunce to take them, Dydimus would have you let them blond behinde aboue the Moulders, others bnder their tongue: some againe cure them with settering. If the kernels

Swell in the throat, you must let them bloud bnder the tongue,

cure.

The Quinley. and when they have bled, rubbe their mouthes within with fait. finely beaten, and inheate flower: Democritus would have you aine to enery Sowe, three pound waight of the beaten rote of Daffaviil. If they bomit, and loath their meate, it is good to give them before they goe abroad, the Chauings of Inorie, freed with falt, and ground Beanes. Swine while they frede abroad, by reas fon of their great denouring (for it is an unfatiable beaft) do wonperoully labour with the abundance of the Spleene : for remedie whereof, you hall give them water as oft as they thirst, in Troughes made of Tamarice, the tupce of which wood is very holesome for them. Democritus teacheth to give buto Bogs that have the Spleene, the water wherein the Coales of Weath bath beene quenched. This beaft hath fometime a fickneffe wherein he pines away, and forfaketh his meate: and if you bring him to the field, he suddenly falleth bowne, and lyeth as it were in a bead fleepe: which as some as you perceive, you hall but by the whole Weard in some house, and make them to fall one day, both from water and meate: the next day, the rate of the wilde Cue cumber famped, and frained with water, is given them to daink: which as some as they have taken, they fall a bomiting, and fo purge themselves. When they have thus expelled their choler, pouthall give them hard Beares, Arained with Brine. An ercellent medicine against all Pestilence of Swine, doth Hieronimus Tragus teach, which is; when you lie them infected, to give them the Rotes of Polipodi, og Die Ferne boyled in Wine. whereby they thall purge whatfoever is evill from them, and most of all choler, wherewith Swine are most troubled. The fame Hieronimus (as I remember) teacheth for a Dorfe (though it be without my commission to meddle with them: ) If he be fick, and suddenly fall downe of a disease that you know not, to put bnoer his tongue a piece of a Ferne rote, whereupon pou thail fee him immediately boyde byward and downeward whatfoever is in his body, and prefently amend: this he faith (and truely 3 pare belieue him) that he proned with a Porte of his owne. But to my Swine: whereas thirft in Summer is hortfull and bans gerous to all kinde of cattell, to this beatt it is most hurtfull : and therefore you muft not water them as you doe Shiepe & Boates, but twife, or thrife a day : but if you can, you mult hope them pp.

by the water side, that they may goe thereto at pleasure: for the Swine is not content with dainking, but he must often cole and plunge his filthy panch in the water, neither delighteth he in any thing so much, as to wallow in the durt. And if you have no fuch place niere, you must draw some water from the Well, and give it them in Troughs abundantly : for except they drinke their fill, they will fall ficke of the Lungs: which difease is cured (as Columella writeth) by thruffing the Kote of Setters wort through their eares: Plinic affirmeth the Tode to be a present remedie for the licknesse of Swine. Some say, that if a Sowelofe one of her eyes, the dyeth some after; other wife the lineth fiftene peres. There is a kinde of disease amongst Swine (though otherwise they be healthie and satte) wherein their fielly is all infected with little graines, as bigge as Peafon: the Biekes call them Galazos, and we at this day Deagled Swine, which you thall some perceive by the light of the tongue, and the hoarsenesse of their boyce : this disease they say, is naturall one to them, from which you thall preserve them, if you name certaine plates of Lead in the bottome of their Trough. Pouthail also keepe them from this disease, if you give them to drinke the Rote of Wziony: the generall and common remedy is Allome, Brimstone, and Bay-berries, of each alike: adde thereunto a handfull of Swte, beate them all together, and put them in a Bagge, which Bagge you Hall cast into their water when they dainke, and renewit twife in the piere.

Meazled Swine.

EVPHOR. I pray you Eumeus doe not dissemble, but tell bs truely how you doe to have your Pogges so satte, I believe you are in the Barne sometime when you Hould not be?

Ev mev s. What means so ever I ble in ordering my flocke, is not to my Paisters loste, no more then is your diligence, where by you bring your cattell to be so faire. I told you before, that he was an unthristie Husband, that had his Bacon from the Shambles, a not of his owne provision: and besides, my Paisters Phistians give great commendations to Hogges slesh, in that it there (as I said before) a beast that makes more dishes. And there fore it is greatly for profit, to have the Husband-mans kitchin well kored with Bacon, where with he may sustaine his houshold

all the whole yiere. Dou Mall easily (though wood be wanting) finde Barnes, Parthes, and Come-ficlds to feede them in. They will be fat (as Plinic supposeth) in theiescoze dayes, specie ally if they be kept from meat this dayes before you fiede them: they are fatted with Barley, Dates, or other Torne, or Buile, either given whole, or ground, but of all others, best with Past: and that field is better, and of more substance that is fed with Acomes, then that which is fatted with eyther Bech maft, oz Cheffnut. This beaft will in time be fo fat, as he will be able neis ther to goe, not fand. Dea Varro tells that there was fiene in Arcadia a Sowe so fat, that the was not onely buable to rife, but fuffced a Apoule to make a nell in her body, to lay her youg there. The same Varro reporteth, that there was sent to Volumius a Se nator in Rome, a piece of Borke of tho ribs that weighed thee & twenty pound: the thickenesse of which sowe from the fkinne to the ribbe, was one foote and thee inches. Pour bestis to put to fatting your Swine of two or three yeares old: for if they be ponger, their growing will hinder their fixding. To kiepe your Bacon any long time, you must ble great biligence in the falting and daying of it, whereby you shall have it both the wholesomer, and sweeter, and besides to continue divers pieres to serve the turne, if scarsitie happen. Pour Dogge being in this sort fatted, you must that by , and not suffer him to drinke the day before you kill him, whereby the fleth will be the daier. When you have thus after his thirlt killed him, you shall eyther skald him with water, or with a flame made with Arawe, or Aickes, lyndge him: for the manner of such as flay him. I like not. After that, hange ing him up by the hieles, you thall plucke out his bowels, and put them to deeffing : his fielh being colde and hard, you shall lay bpon a table, and cutting out the Head, the Bammon, and the Fletches, ponder them with Salt, thulling great fore thereof in every place, specially where the bones be: that done, put it into your poudzing tubbe, Arowing falt enough bnder it : some Inould have you falt it in the wane of the Done. Wefoze you pour der it, you must presse and dry out all the bloud, and the water. Some before they falt it, doe plucke out the bones, thinking it the best way for preserving it, and to keepe it longest sweet. Others againe doe not Araight wayes put it into the pondzing tubbe, bus

but doe leave it upon a Table for ten dates after, and then hang it by in a pure ayze, to day in the larde. And when it hath biene dayed in the winde certaine dayes, by little and little, they let the smoke come to it, and afterwards more abundantly. The Bacon will be the sweeter, if beside the smoke, the winde may come to it: if you hang it in great smoke at the first, it will be rustie. Dydimus faith, that the Wacon will long continue fivete, if after the deciting, coiling, and deping, it be hanged by in thadolog and moift places, rather toward the Porth, then toward the South, and that it will be sweeter, if it be concred with snow and chaffe: the Aubbes that you powder in, must be such as have had Dyle in, rather then those that have had Aineger. Although I have before spoken of the worthynesse and antiquitie of Shepheards, and Heardsmen, yet must I here say, that it is in vaine to meddle with the ordering and keeping of cattell, except you have hand, some and skilfull men that may take the charge: for the knows ledge of kéeping of cattell hath a discipline, wherein a man must from his very Thilde-had be brought bp : and furely it is mete, that the husband, or Bayliffe, haue beine brought op, or trayned in all these Trades, and to come by degrees to his Waitters prize: As from a Swineheard to a Shepheard, from a Shepheard to a Peatheard, ac. And most true it proueth in this that commeth to passe in all other governments, that such are best able to take charge of government, that passing by degrees and offices, have from being bnder gouernment, come to gouerne themselves: for though (where the flocke is but small, and feeding not farre off, is brought home every day) children and young folks are able to secue the turne, yet where the flocks be great, and must be kept night and day in Forreits, and wilde fields (as I saide before of the flocks that wintred in Appulia, and summered in the Mountaines of Kiete) here I say the Shepheards must both be men of luftie age, Arength, and biligence, as also failfull in that belongeth to their office: for neither olde men, nor children, are able to endure the hardnesse of clyming the hilles, nor the tharp. nesse of the cold Mountaines, which they must alwayes doe that follow their flocke, specially they that keepe Bullocks and Goats, that delight to fiede bpon Rocks, and Cliencs. You hail fie on the Mountaines of Swytzerland, great and godly fellowes, farnithed

Of Shepheards. furnished in warrelike manner to follow their Heards and Flockes, and to lodge in the wilde defarts, farre from the company of men, and there allo to make both Butter and Cheele : wherefore fuch as are meet to take charge in thefe places, must be light, fwift, and well limmed, and not onelp well able to follow their flockes, but if niede be to defend them from wilde and rauening beafts, to lift great burdens, to follow the chafe, and to be god archers : in fine, such a one as Homer both make his Eumeus to be. And therefore the olde Bufbandmen in hiring of a thepheard, did alwayes covenant among others, that hee thould be found of body and limme, and free from filching and theft. In Sclauony, the Deardelmen doe ble to hane their Wines abroad with them, as companions of their tourney to dreffe their meate, and such things as they neede: such things as are for the health of his beatts, the thepheard must have alwayes in a reas dinette. Varro would have him both for this purpose, and for the better order of his reckonings with his Walter, to write and reade. De the number of the Beardimen , how many every flocke ought to have, is to be measured by the Countrie, and kind of the Lattel. The same Varro alloweth for enery four escape Boates one Mepheard, which Acticus alloweth to an hundzed, to every fitie Bares two men: in our Countrey one hepheard ful ficeth for an hundred, or two hundred thepe: yea, many times for thee hundled, and aboue, specially where they bee enery day brought home. Dne Swineheard will keepe twenty, or thirtie Dogges, or more, if the ground be thereafter, the like for 18th lockes, and Mine. For Horles we feldome haue Bearofmen, but euerp man keepeth them at home, either in Stables oz Paffures. not commonly ercoding the number of twenty. In what or der pou Mall fede your Cattell, either in Summer oz in Wins ter, and when towards the South, and when to the West, 3 hane told you before.

The Dogge (though the Lawyer alloweth him not in the Dogges, number of Cattell) and though he yields of himselfe no profit, yet is he as the shepheard, for his trustinesse, and watching of the stocke) to be estimed and set by: for they have beine sine to fight in the desence and quarrell of their Paster. Pea, divers of them have beine knowne after their Pasters death, by on great affection

#### I hethird booke,

affection and love, to family themselves, whereupon the paire of god Dogges grew to be very great. It is waitten, that Alcibiades gaue for one Dogge eightscore poundes. There is not a more necessary creature then the Dogge about Bulbandry : for beside his singular faithfulnede and watching in the night time, he is also a quarter mafter in keeping of Cattell, and very needs full for the Defence of them, specially Spiepe and Boates, subich would be some destroyed by Wolfes, Fores, Crayes, and other bermine,if Dogges were not let to be their kiepers. Swine fee ding in heards, if the wilde beaffes inuade them, making as it were a larum with their grunting, and crying, allemble them-Selues, in their owne orfence. The greater Cattell Defend them. felues some with their heeles, some with their Doznes, onely the poze Shepe hath no Souldier but the Dogge. Df Dogges that ferue for profit, there are but thee forts : for the fourth (whichare but for pleasure) I make no account. Dne of the forts is fuch, as by fcent, or fiviftnette, ferue for the chafe, and killing of wilde beaffs : thefe, what manner of ones they thould be, and holv they should be ordered, Xenophon and Oppianus, in their Cynigetickes have taught, and I in mylatt booke, where I hall fpeake of hunting, will occlare.

But now I will onely speake of Dogges for the husbands, and keepers both of the house and the Cattell: and first of the Mattie that keepeth the house: for this purpose you must prouide you fuch a one, as hath a large and a mighty body, a great The Ban- and a theill boyce, that both with his barking bee may discover,

dogge for and with his light dismay the Thefe, pea, being not seene, with the house, the hogroz of his voice put him to flight. Dis stature must neither be long not thost, but well fet, his head great, his eyes tharpe, and fiery, either browne or gray, his lippes blackith, neither tur ning by, not hanging to much downe, his mouth blacke and wide, his neather-talve fat, and comming out of it of either fide afang, appearing more outward then his other teth, his opper toth even with his neather, not hanging to much over, harpe, and hidden with his lippes, his countenance like a Lion, his breft great, and Maghaped, his Moulders bedad, his legges bigge, his taile thoat, his feet very great, his disposition must neither be to gentle nortweurst, that he neither fawne von a thiefe, nor flie

upon

bpon his friends, bery waking, no gadder abzoad, noz lauith of his mouth, barking without cause, neither maketh it any matter though he be not fwift: for he is but to fight at home, and to give

warning of the enemie.

The Dogge that is for the folde, mut neither be fo gaunt, The Shepherde noz fo fwift as the Graphound, noz fo fatte noz heavy as the Malty. spally of the house, but very frong, and able to fight and follow the chase, that hee may be able to beat away the Molfe or other beatts, and to follow the thefe and recover the prep, and therefore his body would rather be long then thort and thicke: in all other points he must agree with the Bandog. Couching the kinde, the Dogge is thought better then the Bitch, because of the trouble the bringeth when the is fawte: howbeit, the fpapo Bitches doe bite foreft, & are more waking. Fortheir age, they muft neither be inhelpes, nor to olde: for the whelpe can neither defend himselfe, not the flocke, whereas get the old hath some ble about a house. If you have a whelpe (which age is better to be trained, either for the house or the fold) you thall perceive by the for whes ther he will be great or no. Dis head mut be great, smoth, and full of vaines, his eares great, and hanging, his toynts long, his forelegs Morter then his hinder, but very fraight and great, his clawes wide, his nailes hard, his heele neither flethy nortw hard, the rioge of his backemot to much appearing, noz croked, his ribs round and well knit, his thoulder pointes well diffant, his but tockes fat, & broad, and in all other parts (as 3 fayd) of the Bane dogge before. For his colour it maketh no great matter, though Varro would have him white, and fo would Columella the Dog for the field, as he would have the Youle-dog to be black : but the pped colour is judged naught in them both. The white they come mend, because he may be discerned from the Wolfe in the night, whereby they Hall not Arike the Dogge in Acad of the Molfe. The blacke againe, for the house is best commended, because of his terrour to the thiefe in the day, and the hurt that he may do by night, by reason of his not being seene: the dunne, the branded, the red, do not milite me, fo they be well marked belide. Thus must pou sudging him as a Lyon, by the claw, epther buy one, 02 being by one for your purpole. How much teaching or bringing by prenatleth, appeareth by Lycurgus his example in Xenophon. II C

To make them fierce & curff, you must plucke them by the earcs, fet them together with your handes, and keepe them from being hurt, fo thall you have them the bolder and the fiercer, and fuch as will neuer gine it oner. Pon mut ble him firft to the chaine, by tying him to a clogge, letting him drawe it a while by his necke, and when you have a little space bled him in this fort, then map pou epther lead him or tie him: it is best to kiepe them tred in the day time, to make them the curfter, and to let them lose in the night time: so thall they in the night time watch, and in the day fleepe. To arme them against the Wolfe, oz other wilde beaffes, you may put broade collers about their peckes full of Patles, and fron ftuddes, lining it with foft leather within. Dou must loke that your Dogges be of a good kinde, and (if you can) all of one kinde, so thall they flicke the better together: choose them that have the curftelf Dammes, and such as have their Pappes enen. They begin to litter at a piere old, and continue

nine pieres, after tenne they be worth nothing.

The Dogge (as Columella faith) gettes Whelpes luftily, till he be tenne pieres olde : the whelpes of the olde Curres are flow and naught. Homer fæmeth to make the life of a Dogge aboue twenty pieres, where he speaketh of the comming home of Vlilles, and the knowledge of his Dogge: And I my felfe haue fæne Dogs that were faid to be fo much, but altogether bupzofitable. Their age may be knowen by their teeth, the young having (as Aristotle saith) white teeth and Marpe: the olde, blacke and blunt. In the Spring they begin to be falute, and goe with Whelpe (as Aristotle and Xenophon saith) therefroze dayes, or at the most thiescore and thie. Varro writeth, that they goe thie moneths with young: the Dogs of Lacedemon ingender at right moneths olde, and all other Dogges also at halfe a piece: they are with whelpe at once limping: they litter about June: when they be littered, they are blinde, and the moze milke they have, the longer it is before they fee, but never longer then one and twenty dayes, noz swier then seauen dapes. Some holde opinion, that if there bee but one at a litter it will see the ninth day, if two the tenth day, and so a day added soz as many as be, and that those that be of the first litter, one somest see: the best of the litter is that which last sweeth, or which the Bitch first carrieth to her Kennell.

As some as they be whelped, cast away such as you missibe: of feauen, kepe thee or fours : of thee, two : while they be young, at the first they must be suffred to play with the bamme, that they may grow the better, afterward, let them be taught, and tied (as I tolde poul tring them in the day, and letting them lose in the night, and fuch as you know to be of a god kinde, and would have them prone well, suffer them not to sucke a Arange damme: for the milke and bloud of the mother is of great force to the goods nesse and growth of the Tahelpe. And if so be the Bitch lacke milke, suckle them with the milke of a Goate, till they be foure moneths olde. Lay bnderneath them in their Kennels Straw and Chaffe, that they may lye warme: for they cannot well away with colo. Dou must cut the tailes of the Whelpes when they be are wakes old, in this maner, there is a finewe that runnes from the rioge of the backe, to the tip of the taile, which being held fast with a pincer, & a little drawne out, you thall cut asunder, where, by neither the taile thall grow to any foule length, nor the Dog hall at any time after (as they fay) be mad. They are thought to lift by the legge when they pille, at fire moneths olde, which is a figne of the perfectnelle of their ftrength. The feeding of both kindes is all one, they may be fed with bones, porredge, and fuch like: in any wife let them want no meat, for if they boe, they will for hunger rauen abroad, and forfake both the house and the flocke. Xenophon would have you give them milke all the pere long, and fuch fod as they shall fiede with all their life time, and no other thing: if you feed them to full, it will beed (as he faith) difeales in their legs, and rot them within. Bread is their come mon meat, but Varro would have it given eyther with Wilke oz Mihay, by ble whereof, they will never forfake their Cattell. Dou may give them belide, bread, with the broth of fodden bones, and the bones themselves broosed, which will make their teeth the founder, and their mouthes and fawes wider, and thep will be the koner, by reason of the sweetnesse of the Warrowe. Dou must beware they eate no bead Sheepe, left by reason of the tatt, they fall to the line ones. While the Bitch hath Welpes, you must feed her rather with Barley bread then wheaten bread: for thep profper better with it, and makes them give more milke. must fode them theise a day, in the morning when you tye them bp. by, at none, and againe at night, when you let them lose. Their names that you give them, muft be host, that they may

Come heare when they be called. The Grekes, and the Latines, gane them names of two fillables, the Germaines lightly but

Fit names one fillable, as Ball, Slut, Patch, Brim, tc. Although Coluof Dogs, mella would not have their names under two fillables, thewing for crample the names of Dogges among the Grakes, and the Latines, as onulas, eoun, alun, landre, and Lupa, Tigris, Cerua. Kenophon reckoneth by thousands, all for the most part of two fillables. The difeales and grienances of Dogges, are the biting of flies, Tickes, and Danginelle. Against this you must walk them when they be Wihelpes, with bitter Almonds, Camped and Arained with water, walhing them both about their Cares, and betwirt their Clawes, that neither flies flicke to them and blis Wer them, noz Tickes, oz Lice molett them : and if thep be als ready mangie, you must annoint them with Warre, and Hogges greafs: the Tickes also, if you touch them with this medicine, will presently fall off, for you must not plucke them off by force. If your Dogge befull of fleas, the remedy is Cummin beaten, with a like quantitie of neeling powder, and mingled with was ter, rub him ouer with it, oz the olde bregs of Dyle tubbed ouer all his bodie. If he be feabby, take Cythifus, and Cefamum, beats them together, and mingling them with Tarre, annoint the foze: this medicine will alfo remedie a Christian creature. They fay also, that if you though the thin through with an iron, it will heale the manginelle, oz if you smeare them ouer with Gunnes pouder, oz caft them into a Tanners fatte.

Aristotle writeth, that Dogges are chiefely troubled with theedifeafes, Madnelle, Duinfey, and the Gout, and whatfoeuer he byteth in his madnelle, becommeth also mad, and dieth thereof: the madneffe is most extreame in the Dogge dayes : whatfoeuer is bitten by them, falleth Araightwayes into a loathing, and feare of Water. To preferne them from it, you must mingle with their meate for thirtie dapes together, or if they be already infected, gine them næfing pouder to eate. Plinie writeth, that there is in the tongue of Dogges a little worme, called of the Brækes Lyrta which if it be taken out while they be whelpes, they will neither be madde, not greedy, not rauenous. If the

Dogge be madde, he refuseth both meate and dainke, and dains Madde leth ill fauoured fomie matter, both from his note, and mouth, Dogges. bee loketh with a loathsome countenance, his body is leane, and moze clong together then it was wont to be, he beareth his taile betwirt his legges, and biteth without any barking what soener he meetes, falling as well byen men, as beafts, making no differ rence betwirt his friendes, and ftrangers. As the Dogge is a watchman and keeper of the house and the flocke, so the Cat is a household servant to be cherished.

The Egyptians for their profitablenesse, did worthip for their Cattes.

Goda golden Cat, foz whereas Kats and Dile, as well in Cie ties, as in Branges, are greatly hurtfull, we kepe by Cattes for the anopoing of the mischiele, neither is there a specier remedy. The Catte is a beatt of nature enemie to the Poule, watching in the night, and flæping in the day, ffealing suddenly and swiftly bpon the Poule: the leth better by night then by day (as Alexder Aphrodiscus watteth) her epes thine and glifter in the barke. They goe a Catterwalling about February, or other times in the piece (for they often ingender) and bring forth their young ones blinde, as the Bitch both. Herodotus faith, that after the Catte hath kitned, thee commeth no more at the Bucke, which Johen hee perceiveth, and cannot have his purpole, he killeth the young, whereof when the leth her felfe bereft, for very defire of poung (whereof this kinde is most desirous) shee commeth Araight to the Bucke. For my part, I would rather counsell you to bestrop your Rats and Wife with Traps, Banes of THE fels: for belides the fluttilhnelle and loathsommelle of the Catte (you know what the layes in the Palt heape) the is most danged rous and pernitious among children, as I my felfe have had god erperience.

Soli Deo honor & gloris.

The end of the third Booke.



Entreating of Poultrie, Fowle, Fish, and Bees

PVLLARIVS. CHENOBOSCVS.

MELLISSEVS. PISCINARIVS.



S kieping and bekoing of Cattell, doth pield no small commoditie and gaines to the husbandman, so the nourishing and maintenance of Poultrie, Folule, Bes, and fifth (if the Countrie be fozit) doth commonly arise to his great advantage, whereby both the revenue is greatly end creased, and the table daily with daintie,

and no chargeable dithes furnithed. Cages, and houles for Birds, wherein were kept all manner and forts of Fowle, were first des uised by Master Lelius Strabo at Brundisium, from which time it was first put in vie, to pen bp fuch creatures, as naturally were accustomed to fife at their libertie in the appe. At which time also began to be brought in strange and outlandily Fowles, the kieping and brieding whereof, pieldeth to the husbandman both pleasure and profit. The have here brought in Pullarius, Chenoboscus, Mellitscus, and Piscinarius, every one of them severally ene treating of such things as belongeth to his charge.

MELLISSEVS. I see pour haue here (Pullarius) great Noze of Fowle, and Poultrie, and I believe berily, the profit and commoditie of them will not quite halfe the charges they

PVLLARIVS. Des verily, they quite our cost, whether me

wee fell them , or kiepe them for the Bitchin. It is layd, that Auidius Lurco made parely of his Poultrie, and Fowle, fine huns died pound.

MELLISSEVS. But I doe a great deale better like the

common Poultrie, that we kiepe about our houses.

PVLLARIVS. We have also of the same here at home with vs.

MEL. Then let me bnderstand (I pray) in what order you

kiepe them, for herein you lieme to be most skilfull.

PVLLAR. It is met that enery one be Califull in that trade that he professeth. If you will, I will not refuse to the wou that little cunning that I have: so you on the other fide bouchfafe to thew me the ordering of your Bes.

MELLISSEVS. I will not ticke with you for that, to tell

you the best 3 can.

PVLLARIVS. Wellthen, with a good will I veclare buto you my knowledge, beginning first with those kindes that are most in ble: for among all other household Poultrie, the chiefe place is due to the Tocke and the Denne, that are belide fo common, as the porest widdow in the Countrie is able to keepe them. In this Bird there are their points of naturall affection chiefly to be wondered at. The first, the great carefulnesse that they have during the time of their litting, wherein for the delire of hatching their young, they fieme to be careleste of either meate or drinke. Decondly, that they beare such love to them, that they Wicke not to hazard their owne lines in the defence of them. And thirdly, that in the ftorme, great colde, or fickeneffe, they preferue and nourish them bnder their winges, not making for the while any account of their owne felnes. There is hereof a fweet comparison in the Gospell, wherein our Saufour Thatk compareth himselse to the Henne that gathereth her Thickens under her winges. And therefore, fince thefe are common for every man to have, and that they allnayes fiede about the house, I thinke it bett to begin with them, and to tell you which are best to be liked, which to be brought bp, and which to be fatted.

Fira, the best to be bought for brade, are the dume, the choise of redde, the pellow, and the blacke, the white are not to be medled Hennes with, because they are commonly tender, and prosper not neither for brood.

are they beside fruitfull, and are alwayes the sairest marke in a Hawke, or a Bustards eye. Let therefore your Henne be of a god colour, having a large body, and brest, a great head, with a straight, redde, and dubble combe, white eares and great, her tallons even. The best kinde (as Columcila saith) are such as have sive claives, so that they be free from spurres: for such as weare those Cockish weapons are not good for brode, and viscaine the company of the Cocke, and lay but seldome, and when they sit, with their burnly spurres they breake their Egges. The little Pullets, or Hennes, though the olde age, both for their bustute sulnesse, and other causes disalowed them, yet in many places they prove to be god, and lay many Egges. In England, at this day, they are vied as a daintie disa at mens tables.

The choise of Cockes.

In the choyle of your Cockes, you must prouise luch as will treade lustily, of colours, as I told you for the Hennes, and the like number of tallons, and like in many other points, but of Kature they must be higher, carrying their heades Kraight bp. their Combes must be ruddy and high, not hanging, not falling bowne, their eyes blacke and Marpe, their Bils Most and croked, their eares great and white, their wattels of pent, having bider them as it were, a kinde of grapily beard, the Weake feathers of colours diners, either a pale, golden, oz a gliffering græne, which must hang rufling from his pecke to his houlders, their 152 casts must be large, and well brawned, their Wings well feathered and large, their Tailes dubbled and flagging, their rumpes and thighs full of feathers, their legs ftrong, well armed with tharpe and deadly Spurres: Their disposition (for you shall not niede to have them great fighters) would be gentle, quicke, and lively, and specially good wakers, and crowers: for it is a Byzo that well aporcioneth both the night and the day, and (as Prudentius witnesseth) erhozteth to repentance. Petther must you on the other lide, have him a Craddon, for he mult sometime stand in the des fence of his wife, and his children, and have stomacke to kill or beat awaya Snake, or any such hurtfull vermine: but if he be quare rellous, you thall have no rule with him for fighting and beating his fellowes, not luffering them to treade, though he have moze then his hands full himselfe. This mischiese you may easily preuent with shackling him with a spec sole: for although such lufty

fightens

fighters are bredde by and cherished for the game, yet are they not to ferue the Bulbandmans turne at home. A Cocke framed and proportioned after this fort, thall have fine or fire hennes going with him.

MELLISSEVS. I pray you let mie bnderstand what

time of the yeare is belt for bringing forth of Chickens ?

PVLLARIVS. In some places, specially the hottest Couns tries, the Pennes beginne to lay in January, in colver Countries, eyther in February, or at the latter end of January : you must also further their laying; by giving them meates for the purs pole, as Warley halfe foode, which maketh both the Egges the fagger, and causeth them to lay the oftner. Some thinke it god to mingle therewith the leaves, or the fædes of Citylus, which both are thought to be greatly of force in making them fruitfull. It this be not to be had, you may supply the want with Spery, 02 (as Cardanus faith) with Dempelæde, which will cause them

to lay all the Winter.

When they lay, you must fix that their nests be cleane, and kept Will with fresh cleane traw: for otherwise they will be full of fleas, and other vermine, which will not faster the Henne to be quiet, whereby the Egges ove not hatch even together, or many times ware addle and rotten. The Egs that you fet boder them, must be new laye, howbeit, so they be not abone tenne dayes olde, it maketh no great matter : if you loke not to them they will Araight wayes lit after their first laying, which you must not suffer, for the young Bullets are better for laying then fitting: the defire of litting is restrained by thrusting a feather through their note. The old Pennes must rather be suffered to lit then the younger, because of their experience. Perein mult you have a speciall regard to know which be best to sit, for some be better to bzing op Chickins then to fit. Dthers againe, will breake or eate up both their owne Egges, and their fellowes Egges : such you must put aside , and if their Pailes and Billes be Marpe, rather imploy them in bewoing then in fits ting. Democritus telleth, that Chickens may be brought foorth without letting bnoer the Benne, if so be the doung of Bennes fifted very fine, bee put in little bagges, basted about with soft feathers, byon which the Egges must be laid Araight vyzight with

with the tharpe end beward: byon thele againe must the like quantitie of Dennes doung be laid, fo that they be of every fide closely conered. This done, you mult luffer them to lie for the two or their first dates, and after, every day turne them, taking god hed, that you knocke them not one against the other in the turning. After twenty papes, you thail finde the Egges broken: and therefore the twentieth day, plucking away the thels, and tas king out the Chickin, you may commit them to the Benne. It is waitten, that Chickens haue beene hatched by the continuall warmth of a womans bosome : beside, it hath beine feine that Egges being laid in an Duen, oz a warme place, couered well with Arawe and chaffe, having a little fire belide, and one to turne them continually, have disclosed and broken at their accustomed time. Ariffotle waiteth, that Egges put in warme bellels, 02 co. uered with doung, will hatch of themselues. The number of the Egges that your Denne Hall fit bpon, some would have to be odde, and not alwaies alike, but in Januarie, and February fife tene, and no moze, in Parch ninetiene, and no lelle: which nums ber you shall continue all the Summer, till September, 02 Dass ber, after which time it is to no purpole to breede any longer : for the Chickins, by reason of the colde weather, and diseases, never prosper. Dea, some be of opinion, that after the tenth, or twelfth of June, you thall never have faire bambe, and that the best feafon for letting, beginneth at the tenth of Warch. And herein pour must alwayes be sure to have the Done encreasing from that the be tenne dayes olo, till fiftene: for that is the best time to fet in. And so must you againe dispose the time, as the hatching may fall out in the encrease of the Mone: for the full time of hatching, there are funday opinions: Aristotle writeth, that they are hatched in ninetæne dayes, Varro (foz Chickins) one and twentie daies, or twentie dayes: for Peacockes, and Bele, leauen and twentie dayes, and sometimes moze: Duckes, in the like space to the Denne, specially if they sit night and day, allowing them onely the Morning, and the Quening to fiede : which times they must of necessitie haue. If so be you will set under your Benne Deas cockes Egges with her owne, you must let her byon the Peas cockes Egges ten daies befoze the haue her owne Egges, wheres by they thall be hatched all at once, neither must you fet aboue

fine Peacockes, 02 Gole Egges birder a Henne. If you would To have have all Cocke Chickins, you must chose such Egges as be long Cocke gelt and tharpelt, as againe (for Bennes) the roundelt, (as both Chickins, Plinie and Columella write ) though Aritotle fæme not of that or Henneopinion. To buderland which be god Egges, which not, you Chickins. muft (as Varro teacheth) put them in water, and fuch as be nought will fwim aloft, and the good goe Graight to the bottome. Dthers poe hold them by against a Candle, and if they fee through them, they judge them light and nought. Dou must in no wife hake them, or thogge them, least you breake the ftrings of life, that are but newly beaun : it hath beene feene, that by thaking of the Egs, the Chicking have beene hatched lame. The may belide perceine lobether the Egges will proue well or no, if foure daies after the Denne haue fitten, pou hold them bp in the Sunne, og other light, and if you fee that they be clere, cast them away, and put co ther in their places. Against thunder, that many times marreth the Egges, some doe fet about them the Leaues, or Branches of Baves or Bentes, or Braffe, others (againe) the heads of Bar. licke, and Pailes of you. In the great heat of the Summer, you hurt of must now and then sprinckle the Egges a little with water, and thunder. wet them, least by the extreame heat they ware die and able, specially the Egs of Turkies and Hennes. Whenfocuer you meane to make cleane their nefts, you must take by the Egges, and lay them tenderly in some little Balket, & so lay them spedily againe in the cleane neft: mere to the place where the Den fits, you mutt fet water, & meat, that they may the better keepe their nelts, and that by their long absence the Egges ware not cold. And als though the Henne doth alwaies turne her Egges, pet it behos neth von when the is from the nest, to turne them softly with pour hands, that by receiving a like marinth, they may the foner be readie. And if the have happened to burftany of them with her fæte, you must presently remove them. At the nineteenth bap, pou must loke diligently whether the Chickins do iobbe the Shell with their billes, and hearken whether they piepe : for many times by reason of the haronesse of the shell they cannot come forth, and therefore you must helpe them out with your hands, and put them to the Denne, and this you must doe no longer then them daies; for the Egges that after one and twentie daics.

vales make a noise, have nothing in them, and therefore pou must cast them away, that the Pennelwse not her labour. Topon the twentieth day, if you firre the Egges, you hall heare the Chice kin, from that time begin the Feathers, the Chickin lying lo, as the head refleth bpon the right forte, and the right wing lieth bp. on the head, the polke banishing by little and little. Dou must not take the Chickins away as they be hatcht, but luffer them to remaine one whole day with the Benne in the Acft without meate or drinke, till fuch time as they be all hatched. It is wonverfull, & get the experience fiene, that before they be fuffered to eate, they take no harme, though they fall from a great height. The next day, when all the flocke is come forth, Columella would have you to put them bnder a Sine, and to perfume them with the smoke of Peneriall, or to hang them in a Balket in the smoke, which preferreth them (as it is thought) from the pippe, which many times descropeth the poze Chickin : then must you put them into a Cope with the Denne, and fede them at the first with Barley-meale, sodden in water, and sprinckled with a little Wine. Afterwards, when they goe abroad, you must feele eues rie one of them whether there remaine any of the meate thep recefued the day before : for if their croppes be not emptie, it bes tokeneth want of digestion, and therefore you must keepe them falling till all be digelted. Pou muft not luffer them to go farre from the Denne, but to keepe them about the Cope, and to feed them til they ware Krong with baufed Barly, and Barly meale: you must also take goo hede, that they be not breathed bpon, by eyther Toad, Snake, oz Enet, foz the Ayze of luch is so per Ailent, as it by & by de Aroyeth them all: which mischiefe is auois bed by burning of Barts home, Galbanum, oz Momans haire, the finoke of all which preventeth this pestilence. You must fee beside that they lie warme: for they neither can suffer cold, nor to much heat: the feathers about their tailes must be pulled away, least with the hardning of their dung, the passage be Kopped, which if it be, you must open softly with a little quill : you must keepe them with the Denne for a moneths space, and after suffer them to go at liberty. Both the old and young, are of all other diseases thepippe. most troubled with the pippe, specially about Paruest time, which is a little white thin, covering the tippe of their tongue, which is to

Against

be plucked away with the nailes, and the place to be poudzed with Athes, or Garlike poudsed & fprinckled bpon it. From this plague you thall preferue them, by feeding them in cleane bellels, and gir uing them alwaies the purell, a cleannell water, and keeping their houses alwaies cleane, and smoked, or by smoking them, as they fit, with the fmoke chiefly of Bayes, and Sauin. The wines of the countrie do commonly cure them, by thrusting a Feather through their note, and firring it energ day : their diet must be Bearbgrace waapt in Butter oz Garlike, mingled with Beale oz Mater, or Clones of Garlike wet in warme Ballet-oyle, and put into their mouthes. Some (faith Columella ) voc bie to wath their mouthes with piffe, and keepe their bils to long close, as the Salt and bitter tall force them to call at their Role the fpring of the disease. Others againe do cut Garlick in gobbets, and putting them in Chalding Dyle, after it is cold, doe walh their mouthes. If they happen to eate Lupines, they will fraight swell buder the eyes, which if you one not gently open, and take out the Coze, it presently killeth them. And if so be the pippe haue now closed by their eyes, and that they forfake their meate, you must launch their Thickes with a Marpe knife, and thauft out the was ter that lieth under the eies, and put into the wound Salt finely beaten : this happeneth chiefely when in the Summer time they deinke foule water, and also when they want meat, or takecold. If their eies be fore, you may heale them with the inice of Purces lane, and Momans milke, annointing on the outside, or with Cummin, Hony, and Salt Armoniacke. You thall rid them of Lice, with parched Cummin, and Stauelacre, a like quantitie of each beaten together, and powers on with Taine : also the was ter wherein wilde Lupines haue bone fodden. If pour Benne fall to cating of her Egges, taking out the white, you must powis in Plaister, of some liquid thing, that may come to a hardnesse in the Well. Do keepe them from eating of Grapes, you Gall give them the Berrie of the wood called the wilde-Time gathered from the hedge beforeit be ripe, and fooden with Wiheat flower, the cuill taffe whereof will cause them to loath Grapes. Pline affirmeth, that if you give them the flowers of the Wine with their meat, they will not touch the Grape. As in all other cattell of the countrie, so in these kindes the best are to be kept; and the mmate -

themselnes with laying. In the middelt of all Egges, there lyeth as it were, a droppe of bloud, which is supposed to be the heart of the Bird, which is the first in all the body framed: the body it felfe is wrought of the white: the fustenance is the polke: the head, while it is in the Mell, is bigger then all the body, the eyes that by moze then the head. While the Chickin increaseth, the white goeth to the midit, and the polke compatieth round as bout. The twentieth day (as I said befoze) if you Airre the Egge, you hall heare the Chickin, from which time the feathers come forth, lying to, as the head refleth byon the right fote, and the right wing concreth the head. The able Egges are thought to come of the vaine lust and treading of the Hennes together: some suppose them to be bredde of the winde, and therefore call them Minde Egges, as Aristotle befoze Plinie hath written. Egges are preferued in Winter, if you kope them in Chaffe, Strawe, or Leanes: and in Summer, if you cover them with Wanne, or Wheate. Some doe couer them befoze in fine beas ten Salt, for the space of fire houres, and after wach them and lay them in Chaffe, Strawe, oz Branne. Others againe couer them in Beanes, and some in Beane flower, and some in heapes of Dalt : but Salt, as it suffereth not the Egges to corrupt, fo it greatly diminisheth the substance of them. Pour Ben Boules must be made in that part of the Pouse, as lyeth in the Winter toward the rifing of the Sunne, and forning as nere as may be to some Bill, Duen, oz Chimney, oz to the Bitchin, so as the smoke may come amongst them: for smoke is very wholsome for this kinde of Fowle. And that was (3 thinke) the cause that the old people made chopse in their quitrents of smoke Bennes, as of the best, as it appeareth by old Kentalles. Let the front of your Henne house frand alwayes towards the Caft, and to that Coast let the doze open. Let the inner romes be well furnished with Lofts, and Ladders, and small Windowes opening Cafe. ward, at which your Poultrie may fly out in the morning, and come into the Koff at night. Loke that you make them close at night, and let the Mindowes be well letteised for feare of Mers mine. Let your nefts and longings, both for laying and broding, be orderly caft: and against every nest and rosting place, place Reppes and bozdes to come by by, making them as rough as

may

Dur Wines of the Countrey, cutting them betwirt the legges, take out their fromes, and folding by the wound, annoint it with Butter; which done, they thut them by in a Cope, not luffering them to drinke in a day or two. From the beginning of Harnelt, and all Winter long, the offall of the Corne, and the Barnes doze both fiede them lufficiently : where they plant Ulines, fpas ring other moze coffly fodes, they fiede them with the kernels of the Grapes : and where there is neither the offall of Corne, noz Grapes, they must be fedde with Dates, Spery, og fuch like. To cause them to lay in Minter, you must gine them (as I told

pou) Dempelede.

If you would have great Egges, Leoncus teacheth to beate OfEgges. into powder Bzicke, oz Flaunders Tile, and mingling it with Chefilland Wine, to make it in Dow, and gine it to your Benne, in to put a Saucerfull of the powder of the Bzicke, to a Ballon of Branne, and to fiede them with it. The Egges of Pigeons, Bele, Peacocks, and Turkies, be all white : the Egges of Was ter Folule be grænish, and pale : the Ginnie Hennes Egges be like the Pehennes in all things, fauing that they be speckled as the Turkie Dens. The Phealants, and the kaffrils Ogges, are reddiff. The Egges of all Fowles (as Plinic faith) are of two colours, wherein the Water Fowles Egges, having a great beale moze yolke then white, and that moze blacke then others. The Egges of Fishes, are all of one colour, having no white in them. The Egges of Birds are by reason of their heate, brits tle : and Serpents Egges, by reason of their colonelle, tough : Fiftes, by meanes of their moutture, foft in laying, the round part of the Egge commeth first out, the Shell being foft, and presently after hard: what forme soener they have, the long are most commended, as witnesseth the Boet. The Egge in fashion framed long, and of them (as I faid before) is brought forth the Cocke Chicken, as of the round ones the Denne, though Ariftotle beagainft it. Some Dens doe lay bery great Egges, and those most times with two polices, having the shell devided as it were with a circle, which both Aristotle writeth, and our experience appropueth. Some doe lap double, and hatch double: fome are fo fruitfull, as they lay great numbers at once, fome suery day, some twife a day: some are so fruitfull as they kill thems

CHENOBOSCVS. And if you will needes have me, I will not refuse to thew you somewhat also of my feathered cattell.

MELLISSEVS. 3 prappou doe fo.

Of Geefe.

CHENOBOSCVS. Amongst the fowle that we keepe as bout our houses in the Countrey, the second place of right is due to the Gofe and the Ducke, which are of the number of those that they call Amphibia, because they line as well boon the land, as the water. And because the keeping of Bele requires no great labour, it is a thing not bumiete for the Busbandman, for that (if he have place commodious for it) it is done without any charges, and prideth god aduantage both with their baode and feathers : for belide the profit of their Eggs, you may twife in the viere, at the Spring, and the fall of the leafe pull them. Dozeover, they are a very god diff for the Table : yea, being moze watchfull then the Dogges, they give warning when they flepe. And therefoze they were with the Komanes had in great honour, because they with their gaggling bewraved the enemie, that otherwise in the night time had taken the Towne. Plinic writeth of a Gole that would never be from the Philosopher Lacydes. Dour chople mult be of those that be of the fairest kinde: Varro liketh best the white ones, which colour was most estes med in the cloe time, as appeareth by the presents that were at uen: the same Varro accounteth the grap for a wilde kinde. They are kept in Marthes, Fennes, Lakes, and Mozify Commons: for to Come ground, Weddowes, and Wastures, it is a very hurts full Fowle: the biteth whatfoener young Spring the may reach, and what the once bath bitten, both neuer lightly profper againe: belides, the Arencheth the ground with her bupzofitable, oz rather most hurtfull dunging : wherefore (as I faid) it is best to keepe them in Fennes, Lakes, and Harthes. If you have froze of fuch ground, you shall doe well to kepe them: for you cannot well kiepe them without god foze of water and pasture. The Gole delighteth in fuch meat as is naturally moilt & cold, and thunneth naturally such things as are hurtfull for her, as the leafe of the Bay, and (as Alianus writeth) the Olcander : the best and metel time for them to brade in, is from the Balends of Warch, to the tenth of June. They tread most commonly in the water, while they fwim in the Rivers, or Fifty-ponds. Columella would have

may bee, that the Bennes may take good hold when they fly by to them, and not by their ouer-imothenesse, bee forced to futter, and hurt their Egges. It thall not be amiffe, if you parget the house both within and without with god Plaister, whereby neis ther Megell, noz other hurtfull Aermine may enter in. 15020 bed Flores are not for Fowle to roll bpon, which almost all kinds of Birds refuse, because of the hurt that they receive by their dung, which if it cleaue to their fiete, bzwoeth the Bout. And therefore to rofte boon, you must make them Pearches, which Columella would, thould be made foure-square : but it is better to have them round, so that they be not to smothe for them to take hold by. Let the Pearches reach from one five of the wall to the other, fo as they fand from the floze a fote in height, and two fote in distance one from the other : and thus have you the fathion of your Denne Boule. The Court where they goe, must be cleane from bung and burtinelle, not has uing water in it, fauing in one place, and that must be verie fayze and cleane: for if it be puddle, or durtie, it bredeth (as I fayd befoze) the Dippe. To kope their water cleane, you may have fapze Garthen oz Stone Wellels, oz Troughs of woo. conered on the toppe, in the which, there must be severall holes, to bigge, as the head of the Fowle may easilie enter: for if you Mould not keepe them thus couered, the Poultrie would in their drinking defile and poylon it with their dung. Their meate must be given them betimes in the morning for straying abroad, and a little before night, that they may come the timelier to their reft. Those that be in the Cope, must (as Columella saith) bee fende thrife in the day: the others mult be bled to an acquainted borce, that they may come at the calling. The number must be well marked : for they fone deceive their keeper. Belide, pou must have round about by the walles, god plentie of bust, where. in they may bathe and proyne themselues: for as the Swine des lighteth to wallow in ourt, so doth this kinde to bathe and tume ble in the dust. And this is (I thinke) almost all that is to be caid of Wullein.

MELLISSEVS. Pea, but we must heare something also touching the other sorts of Fowle, that are kept about the house,

which peraduenture Chenoboscus can instruct bs of.

her Egges. When your Gozlings are come forth, you thall for the first ten dayes feede them with the Gole in the nest. After, wards, when the weather is faire, you may fuffer them to goe as broad, taking goo hieve that they be not flinged with Rettles, nor that you let them goe an hungred into the pastures : but to gine them after they goe abroad the leaucs of Endine, or Lettule chopt, to allwage their hunger: for if you put them an hungred into the field, they Araine and breake their owne necks, with pulling at the tough and Aubbozne wedes, by reafon of the fue. den Carting bache againe of the wiede. The Wortings of divers brodes muft not goe together, noz be fint bp together, for hurs Fatting of ting one another. Withen they be foure Moneths old, or fomes what before, is best time for fatting them : the poungest are for nell, and eafelieft fatted. If you gine them ground Wault, and Unheate flowe, you niede give them nothing elfe, fo you let them have drinke enough, and kepe them from going abroad. The Grakes did ble to put to two parts of ground Bault, foure parts of Bran, tempring it with water, letting them drinke thrife a day, and at midnight. If you would have their Livers foft and tender, you hall mingle day Figs, well beaten with water, and making pellets thereof, cram them with it for the space of seavers tiene or twentie vaies. The Jewes at this day, being the Chilfule left feders that be, doe blea frange ozder in the fatting of them. Wapping the Bole in a Linnen Apzon, they hang her bp in a barke place, stopping her eares with Dealon, or some other thing, that by neither hearing, noz fæing of any thing, the be not forced to Aruggle, not cry : after thep give her pellets of ground Balt, og Bar,leysteped in water, thatfe a day, fetting by them water and grancil, by which manner of feeding they make their to fatte, as the Liner many times commeth to be fine pound in waight. Whilst I was at the Councell of Wormes, there was a Liver of a Gofe brought me by a Jew, that waighed foure pound. Plinie is alfoa witnelle of the greatnesse of the Liners of fat Biefe, affir, ming, that they will grow after they be out of the bodyes, being sprinckled with milke. The common order of fatting with our Countrey people, isto Quttethem opina darke, and a narrow place, and to fet befoze them Barley, oz Beech wheate, gining them water, with a little sand, og gravell in their Troughes:

Geele.

fon keepe for enery Bander, three Bele, thinking by reason of their unweldinelle, this number to luffice: within your Court, pou must make them for their better latetie, fenerall, and fecret pennes, in funday parts thereof, wherethey may fit and breede. Some would have the Gole-rome framed infuch order, as energ Oose may have a place to her selfe : which, if any man thinke to troublefome, he may make one fufficient wive rome to ferue them all. The places where they hall lay, must be date, and well Arabed with Araw, or fuch foft matter, and well defended from Clermine. The Gole must not be suffered to lay out of her neft, but when you thall perceive they feeke it, you must grove them, and if they be with Egge, which you hall eafilie feele, then that them by in their nefts, which you hall not neede to bee as boue once, or twife: for where the bath once land, the will alwaies of her felfe fæke to be They will lap (as some hold opinion) thatle in the piere, if they be not luffered to lit, as it is belt you doe not: for their Egges are better to be hatched under a Benne, then of themselues, and will better a great deale prosper. The Egges of Gele, and Swannes, were bled (as Alianus withelfeth) as a most daintie dish at Bankets, among the Kings and Drinces of the Indies. Aristorle affirmeth, that the Owle alwates bleth to fit, and never the Gander, contrarie to the ozder of many other Fowles, continuing alwaies till the have hatched. After the late laping, pouthall fuffer them to fit, and marke enery ones Eages with a fenerall marke, that they may be fet bnder their owne Gole, for it is thought they will never hatchaftrangers Egges, without the hane her owne bnder her. Df Gole Egges, as of Dehemmes Egges, pou thall (as I faio befoze) neuer fet bider a Denne about fine, nor bnder thee : but bnder the Gole pou hall fet at the least feaven, and at the most fifteene. Dou must keepe to lap under your Egges, the rotes of Dettles, which they lap preferueth them against the Itinging of Pettles, which otherwise many times killeth the Gogling, if they fring them. The Egges will not be hatthed if the weather be coide, before the thirtieth pay ifit be warine, in leffer time : howbeit for the most part, the Bosling is hatched the thirtieth day after the fitting. Some noe ble to let by the nells Barley fleeped in water . 02 Mault, whereby the Gole Mallnot be forced to be any while ablent from her

Their fode mut be (as I lato) Dtes, Barley, Peafe, Panicle, Willet, and Sperie, if you have any Roze. They lay great Roze of Egges, where with, as with Gole Egges, you may well fiede your familie. The Cages of Ducks and Bale, are kept in like fort as I told pon of Dennes Ogges: and belide, in 13ranne, Wilheate, or Aliges. They breeze in the fame feafon that Beefe. and other Fowle to about Warch & Appill. And therefore where you keepe them you malt trawe tickes and frawes for them to make their nells withall. Their Egges muft be luffered to be hatched by themfeines or elferemoned and fet bnder fome Ben: for the Duckiming that the Denne hatcheth, are thought to bee gentler am tamer. Dou mult take goo hete, that the Egges which they lay, be not eaten and spopled by Crosves and Pyes, while the Danime is fiching abroad for meate. If fo be you have Rivers and Lakes for the purpole, it is best to let the Dammes bring them by: for when they be hatched, they will line very well bpon the water with their Dams, without any charge at all : onely take god hiere, that they be befended from Bugards. Bites, Trowes, and other like Hermine: but fo pon ble them. as they will enery night come home to the house: for it is not god to let them be abroad in the night, for danger of lofing them. and making them wilbe. Det hath it beine feine, that fuch as have hatched abread, have afterwards come home, and brought with them a great number at their taples. When I was Ambal fadour in England, it was told me by men of god credite, that there was in Scotland niere to the Sea certaine tres, that pieres ly brought fwith a fruit, that falling into the Bearbecame a kinde of wilde Ducks, or rather Warnacles, which though it fæmed ftrange to me, yet found I Aristorle a witnesse of the like, who writeth, that the River Hypanus in Scythia, bringeth forth trees, whose leanes being somewhat larger then Papie leanes, where of commeth a kinde of foure foted Byzdes.

Peacocks.

But now to Peacocks, which Birds, being more for pleasure then profit, are meter to be kept of Poble-men, then of pore Pushands of the Countrey, though Varro writeth, that M. Aufidus Lurco, who first began the fatting of this Fowle, made perely of his Peacocks soure hundred pound, inhose example numbers following, the price of Peacocks grew to be great, so

and with this order they have them fat in fouretime dayes. After harnest, they will be fat with the Grotten, or Stubble. They are plucked (as I said before) twise in the yiere; in the Spring, and in the fall of the leafe. Some wie to clippe them, but then their feathers never grow so well: but if you pull them, you shall have them to come were fagre againe: and this is enough for a Goie.

Ducks and Weales are to be ordered in like manner almost as Ducks. the Owle, lauing that they belight moze in waters and Barilbes: and therefore you must force some Waters, Lakes, or Doles, for them, whereunto they may easily goe and fwimme, and dive at their pleasure. Columella would have you have a Court for the nonce for them, where no Cattell ble, and nære to the house, round about the which you shall build for them little handsome Romes, thee fote square, with prettie dozes to every one of them : which when they breede, you hall keepe Gutte. Haro by, pou muft haus either some Pond, oz River, wherein (as 3 faid) they may fwimme: for without the helpe of the water they can as enfli line, as without the land. It is god also to have neers buto them, some god Palture, or Deddolv, or to set about the Ponds of Miners, such Bearbs as they best like; as Clauer, Fenegræke, Endine, Lettule, and luch other as they molt delight in, and where with their young doe well feede : belide, you must giue them Dtes, Barley, and other Come in water. There is nothing that they more loue then Acornes, nor that better fatteth them. They belight wonderfully to be amongst kedes and Seoges, wherein they may lye fafe from rauenous birds, but fo, as there grow no great stalked wedes, that may hinder their fwimming : for they belight greatly to play themselves in the water, and to trine who can fwimme fafteft, when the weather is fapre and warme : for as they lone fuch places where they may best way boon the creatures of the water, so are they much of fended if they be restrayned of their libertie in Swimming. In Winter, when the waters be frozen, you must ply them somes times with meate. They delight to make their nelts in some fee eret Couert, but therein you must preuent them, and make their nells in their owne longing, or abroad, well concret and closed with Mixdes : to which neft pou muft haue some little fluce, or gutter, by which you may enery day poloze in water and meate. Their 11 4

tying the Benne with a long line, that the goe not tw far abroad. but that the Thickin may come home in time. After the firt moneth, you may give them Barley, and Wiead : and after the featienth moneth, you may put them to route in the house wich the other, not luffering them to fit byon the ground, but byon Perches for taking of cold. And although when they ware great, they chiefely delight to fit byon the toppes of houses, and be as the Oofe is, which are the best watchmen, and also the best warning givers in the night time : pet is it best for pou to ble them to fit bpon Derches, in boules made purpolely for them. Columella thinkes it not goo to luffer lunday Dennes with their Chickins to fied together, because the Denne after the feeth a bigo ger then her owne, maketh the leffe account of her own Chickins, and many times by that occasion forfaketh them. Cocke, by the great luft that he hath to tread, breakes a funder the Egges that be bider the Denne, and therefore it is belt to have the Bennes to fit as fecretly as map be: they also be to beat and chafe their owne Chickins, till they fix them creffed byon the head, taking them till then, to be none of their olune. Dne Cocke lufficeth for fine Hennes, who by tw oft treading, doth many times cause that the Egges neuer come to god. In warme couns tries they begin to tread in February, when letting by his taile round about him, taking himfelfe foz no fmall perfon, be beginneth to woe, and therefore at this time both the Cocke and the Benne are to be cherified with meates for the purpole to increase their luft, as Beanes tofted a little by the fire, and given them warme every five daies in the morning. The quarrellous and troubles fome Cockes, muft be feuered from their fellowes, for hurting the weaker, and keping others from treading. The Bennes must be kept so, as they may lay onely in their houses, and energ day groped for her Egges, and hedely loked to, with foft Graw laid buder their Perches: for many times they lay as they lit bpon the Perch. The diseases of this Foule, and the remedies, are almost one with the diseases of the house. Cocke and the Denne spoken of befoze, that is, the Pippe, and ill digittion. Their greatest danger is lohen their Coames come first out, for then are they pained, as children are in brieding of teth.

Difeates.

MELLISA

much, as their Egges were fold for halfe a crofone a piece, the Deacoths themselves, at foure Pobles a piece. The fielh is very and and belicate, miete for Poble-mens Tables, and will be long kept without corrupting, the Egges also be very pleasant, and goo to be eaten. Horrentius they fay, was the first that ever killed Peacocke for the Table in Kome, as a new oith at the Priests feate. To this Byzo, is ascribed both biderstanding, and glozy : for being praifed, he fets bp ftraight his taile, and (as Plinic eloquentip describes it ) chiefelp against the Sunne, where by the beautie may moze be feene. Dis tatle falling enery piere with the fall of the leafe, he mourneth, and creepeth in comers till his taile be forong againe. They goe abroad, as Dennes and Thickins doe without a keeper, and get their owne liuings, they be belt kept in little Blands: for they fire neyther hie , nor farre off. Some thinke it to be a spitefull and enuious Bird, as the Goose to be hamefalt, and that he denoureth his owne dung, because he would have no man receive benefit by him. We liveth (as Ariftotle faith) fine and twentie pieres : he biedeth at thie pieces old, the Cocke having his feathers diners coloured : he hatcheth in thirtie baies, as the Cole both, and laveth thee times in a piere, if the Egges by taken away, and fet under a Denne. Dou must toke that those that you fet under a Denne, be new laid, and that the Denne from the first of the Bone, be let bpon nine Egges, five of the Deacocks, and foure of her owne. The tenth pay after the hath fit, take away the Hennes Egges, and put bnoer the like number of fresh Hennes Egges. They must be turned, and therefore marked byon one five. And fix that pou chose the greatest Benne, for if the Benne be little, pou mult take the letter number of Egges, as thie Deahens Egges, and fire Denne Ogges. When they be hatched, you muft as pou doe with the Denne, let them alone : the first day after wards bring them out, and put them with the damme into a Wen. and feeds them at the first with Barley flowie, sprinkled with water, or pappe made of any other Come, and coled. A fewdaies after, give them belide this, chopped Lickes, and Cruds, oz fresh Cheele, the Whey well wong out : for Whey is thought to be very hurtfull for the Chickins. After they be a moneth old, you may let them goe in the field, and follow the Benne, tying

Parch, or foner. In hot Countries they lay great numbers of Egges, if they be continually taken from them, and fet under Dennes, and if lo be you take them not away, they begin to fit at the first: for they be of all others most given to sitting, and so much, that if you take alway all their Egs, they will fit bpon a Cone, or many times the bare pett. You must therefore res Araine them of this delire, either thruffing a feather through their note (as I told you before) or by wetting their bellies with cold water. Dou muft fet binder their Egges as (I taught pon before) in the Peacocke: for they have both one time of hatching. The kieper must marke the one five of the Egges, and alwaies turne them, sprinckling them now and then gently with faire was ter, and take heed the Cocke come not at them, for he will breake them as well as the Peacocke: for the Cocke of this kinde, is a froward and mischieuous Bird. The Chickens being hatched binder a Denne, may be kept with the Dennes Chickens, oz elle very well alone with the Denne, growing fafter a great deale then the Peachicke. Pou hall feed them in like fort as pou dos the Peacocke, or other Poultrie: for they will eate any thing, and delight in Graffe, Miedes, Grauell, and Sand. And bes cause they cannot away with cold, not wet, you must keepe them in Winter, in the warmelf and drieff places you have. The Dearches whereon they ble to fit, must not bee high, but an epattor tenne foot from the ground, neither be they able to flie any great height, and therefore mult be holpen with Lathers, or Reppes. The greatest disease that they are subject buto, is the Dippe, and the Squecke, which must be holpen in like fort as the Dennes, and the Egges kept after the same manner. some places they vie to make Capons of them when they be young, which are served as a daintie dish to the Table, as was much bled in the house of that godly and vertuous Semproma, the Ladie Hales of Kent, who was first the wife of Sir Water Mauntill, of Northamptonshire, a woman in whom all vertues of Gentle- and bountles in her life time flozished.

Lady Hales, a. mirrour

MELLISSEVS. I well remember that Lady, and have heard her highly commended of fuch as in her life time best knew her, for a number of gracious and godly gifts that were in her, as her speciall lone and delight in God, and in his service, her helpes

MELLISSEVS. I would faine learne the right oporting of Turkie their outlandish Birds, called Ginny-Cocks, and Turky-Cocks Cockes

CHENOBOSCVS. This kinde of Poultrie wee haue not long has amongst bs : for before the piere of our Lord 1530. they were not feene with vs, nor I believe knowne to the olo writers. Some have supposes them to be a kinde of the Biros, called in the old time Meleagrides, because of their blew, th Coames : but thefe kindes have no Coames, but onely wat. tels. Others againe reckon them for a kinde of Peacockes, bes cause they one in treading time after the same fort, spread and fet up their tailes, bragging and banting themselves: howbeit they neyther resemble these in all points. But because this kinde of Fowle, both for their rarenelle, and also the greats neste of their bodie, is at this day kept in great flockes, it shall not be much amille to speake of them : for in daintinelle and godnette of meate, the Hennes may compare with cyther the Bole, or the Deahen, and the Cocke farre ercell them. Theces tour of their feathers, is for the most part white, blacke, or pied white and backe, some blew and blacke. Their fete are like unto the Peacockes, their taile thoat, but fpread, and borne bp after the Deacockes guile, specially when they tread. The heads and the neckes of them, are naked without feathers, couered with a wrinckled fisinne, in manner of a Cowle, or a Poode, which hanging oner their billes, the viale by, or let fall at their pleasures. The Tocks hath the greater wattels bnder his chinne, and on his breff a tuft of haire. The colour of that wrincks led thinne about his head ( which hangeth ouer his bill, and as bout his necke, all swelling as it were with little blathers ) he thangeth from time to time like the Camalion, to all colours of the Nainebow, fometimes white, fometimes red, sometimes blew, sometimes yellow, which colours ever altering, the Bird appeareth as it were a miracle of Pature. The dieting and kees ping of them, is almost all one with the Deacocke, fauing that this Bird can worke away with cold and wet. It is a Bird wonperfully given to become, every Cocke mult as the Peacocke, have foure or fine Dennes with him: they are more forward in breeding then the Peacocke, beginning epther the first yere, oz at the farthest at two years old; they beginne to lay in March

Parch, or foner. In hot Countries they lay great numbers of Egges, if they be continually taken from them, and fet under Dennes, and if so be you take them not away, they begin to fit at the first: for they be of all others most given to sitting, and so much, that if you take alway all their Egs, they will fit boon a Cone, or many times the bare pett. You must therefore res Araine them of this delire, either thruffing a feather through their nose (as I told you before) or by wetting their bellies with cold water. Don muft fet bider their Egges as (3 taught pon before) in the Peacocke: for they have both one time of hatching. The kieper must marke the one five of the Egges, and alwaies turne them, spainckling them now and then gently with faire was ter, and take heed the Cocke come not at them, for he will breake them as well as the Peacocke: for the Cocke of this kinde, is a froward and mischieuous Bird. The Chickens being hatched binder a Denne, may be kept with the Dennes Chickens, oz elle very well alone with the Denne, growing fafter a great deale then the Peachicke. Pou hall feed them in like fort as you dos the Peacocke, or other Poultrie: for they will cate any thing, and delight in Graffe, Miedes, Grauell, and Sand. And because they cannot away with cold, not wet, you must keepe them in Winter, in the warmest and driest places you have. The Pearches whereon they ble to fit, must not bee high, but an epahtoz tenne foot from the ground, neither be they able to flie any great height, and therefore mult be holpen with Lathers, 02 Ceppes. The greatest disease that they are subject buto, is the Dippe, and the Squecke, which must be holpen in like fort as the Pennes, and the Egges kept after the same manner. In some places they vie to make Capons of them when they be young, which are served as a daintie dish to the Table, as was much bled in the house of that godly and vertuous Semproma, the Ladie Hales of Kent, who was first the wife of Sir Water Mauntill, of Northamptonshire, a woman in whom all vertues of Gentle- and bounties in her life time flozished.

Lady Hales, a mirrour

MELLISSEVS. I well remember that Lady, and have heard her highly commended of fuch as in her life time best knew her, for a number of gracious and godly gifts that were in her, as her speciall lone and delight in God, and in his service, her helpes full hand and comfort to such as were pore, and districted, as well in relicuing them with meate and money, as with healing diseases, and curing a number of loathsome, and almost incurable vicers, and wounds, her milde and sweete disposition, her great humilitie and carelessesse of the vaine world, and other such verstues, I would to Christ that all other Gentlewomen, that professe Christ outwardly were as well given to followhim in deed, as the was unfainedly.

cagon of all the Gentlewomen that ever I knew, neyther am Joure I shall ever see the like: but shee happily resteth with him, whom in her life time she so earnestly served. If you be not meary, I will returne to my Fowle, and shew you the best

proer for keping and maintaining of Pigeons.

PULLARIVS. I thinke both MELLESSEVS, and PISCINARIVS would gladly heare you tell be something

of this, as I my felfe most willingly also would.

CHENOBOSCYS. Though you PVLLARIVS are better able to speake hereof then 3 am , pet because of mp profession , I will not refuse to take it bpon mee. Whatsoener he be, that gives himfelfe to the trade of Dufbandap, it behooveth specially to have a care for brieding of Pigeons, as well for Pigeone. the great commoditie they pold to the Bitchin, as for the profit and perely revenewe that they paid ( if there be good ffore of Come fields ) in the Market. Varro writeth, that in his time a payze of Digeons were fold for 1000, H.S. And that Lucius Axius, a knight of Kome, before the civill warres betwirt Cafar and Pompey, fold his Digeons at tenne pound the pape: fo much was that time given to wantonnesse, and gluttony, pea, at this day in our time, hath beene feene given for a payre of Digeons tenne pound flemish. And therefore the Douchous fes are commonly built with great coft, and beautie, in the toppes of turrets and houses, from whence by narrow grated windowes they flie abroad to their feeding. Pigeons ( if the countrep be for them ) are fed and maintained with little coft. feeding themselves all the yeere long with such meate as they ande abroad, ercept at luch time as the ground is conered with Snow, when as you must of necessitie helpe them with a little meate.

meat. There is two logis of them, one wilde kinde, that is brought by in Douc-houses, and of colour, epther blewith, white, speckled, or dunne : howbeit , the white is not god to be kept, because they be somest destroyed with vermine. In Italy there are of this fort, as bigge againe as ours, and are now common in Flaunders. Another fort is more familiar and tame, and some thing more large of bodie, with rough fixte, and commonly of co. lour white, and sometime speckled and pellowith : this kinde is commonly kept in Cities and Townes, where the others cannot be kept, and is fed with meat at home, & because they are ever in danger of vermine, and ranening Birds, they are Mill kept within dozes, and alwaies fed at home. This kinde the common people call tame Pigeons, oz moneth Pigeons, because they brede enery moneth, saue in the dead of Wainter. Both thele forts are monderous fruitfull, breding commonly eight times a piere ( if the kinde be god) yea sometimes tenne, and eleuen times : foz in Egppt (as Aristotle telleth) thep bacebe all the Winter long. And though Hennes are moze fruitfull in laying of Egges, yet Pigeons are moze profitable by often bringing forth young : and therefore you must prouive you fuch breeders, whose bodies be great and faire, not two old, nor tw young, of a god and perfect colour, and a fruitfull kinde. It be houeth him that will begin a Done-house, not to begin with the young and little ones, but with the breders, and to buy fo mas ny Cockes, as he both Hennes, and to keepe them if he can, matched together of one Peft: foz if they be so matched, they will briede a great deale better. They bring forth commonly a Cocke and a Denne together (as Aristotle writeth) and our erperience theweth it. In March they begin to bziede, if the wear ther be warme, befoze. There is no Bird fruitfuller then the Pigeon, and in fortie daies the conceineth, layeth, and fitteth, and brings up, and that for the most part all the piere, ercept (as I haue laid befoze) in Winter. She layeth two Egges, and when thee hath layed the first, which is a Cocke, the next the layeth, which is a henne, the third never lightly commeth to god. Woth the kindes doe alwates fit, the Cocke in the day, the Denne in the night, they hatch in twentie daies, they lay after hue treadings. In Summer they sometimes bzing forth in two moneths

moneths there paire: For byon the nineteenth day they hatch, and presently conceine againe. And therefore you shall often finde among the yong Pigeons, Egges some readie to hatch, and some flying : if there be no Cockes, the Hennes will tread one another, but the Egges neuer come to goo, but are winde Egges : Aristotle and Theodorus calleth them water Egges, whereof there never commeth any thing, and because the young ones will breede at fine moneths old, we luffer the first flight to flie, to increase the breede : as being hatched in Parch, will breede againe in July, 03 August. Those that we meane to take for the kitchin, or the Warket, are best to be drawne at the late ter time of the yeare, when they are work able to defend themfelues from the cold, and from Buzzards, and Cromes: the best for brood among all Fowles, is the Barch brode. They that meane to fat Pigeons to fell them the dearer, doe feuer them when they be newly feathered, and feede them with chawed white Bread twife a day in Winter, and thrife in Summer: and fuch as be now hard pend, they leave in the Pett, plucking the feathers of their wings, and breaking their legs, that they remove not from their places, giving the dammes good plenty of meate, that they may better feede themselues, and their young. Some ( as Gellius writeth ) doe foftly tye their legs, for if they thould breake them, they thinke the paine would keepe them from fats. ting: but this tying both little good, for while they Aruggle to get themselves loose, the labour will keepe them from being fat : but their legs being broken, the paine will not remaine as bouetwo daies, or three at the oftermost, and will keepe themthat they thall never tray from their places. Some ble onely to pinion them, but so fal they many times out, and become a prep to Mermine: and therefore it is good to bring them to the Litchin, before they be full ripe. The unfruitfull and naughtie coloured, and the otherwise faultie, ought chiefely to befatted, and must be crammed in such sort, as you cramme Capons. Doue-houses, or places for Pigeons, to builde in, are made after divers manners : for the tame Pigeons, and such as are fed at home, they make in the highest parts of their Pouses lying toward the South, certaine hollow Koomes, and Celles for them, fuch as PVLLARIVS hath described of his Pullein: and if the o

the place doe not so serve, driving in certaine Binnes into the wall, they lay bpon them frames of bozds, with partitions in them, or earthen pots to bred in, letting certaine Ledges runne from hole to hole, that they may the better come to their Deffs. and walke by and downe in the Sunne. But the houses for the other wilder kinde, because they containe great numbers, are built after a moze hanfomer ozder, although bnder the Gues of houses, and in Reples of Churches, you thall have thousands breeding. Varro appoints the Donehouse to be built in this fort: a Towaie adjoyning to the house, and well losted and seeled aboue, with one little doze in it, and foure windowes, answering the foure quarters of the Deanen, which windowes must be well grated, fo as they may give light enough, and keepe out bermine. All the walles within must be faire white limed, for with this colour is the Digeon wonderfully belighted : besides it must be well pargetted and plaistred without, specially about the windowes, fo as neither Boufe, Wiefell, noz other Mermine map enter : the windowes must be so placed, as they may let in the Sunne all the Winter, having a hole of sufficient inidenesse of ner against them, well netted and tunnelled, in such fort as the Digeons may easily flie out and in at, and yet not fuffer any hates full Bird to enter : for the Digeon taketh great delight in flying now and then abroad, where after the hath recreated her felfe, the commeth with joy to her nest againe: as on the other fide the mourneth, if the bereffraines of her liberty. Kound about the wals within you must have little round holes, from the top to the bots tome, wherein they may bred: Varro would have them three hands fulsin length, and ledged from hole to hole for them to walke bpon. Some thinke it best to make pour holes of Lome, 02 Lime and not of Bricke and Stone, as may do, because of the warmth. There be some that builde their Donehouses boon pillers in the miaft of some Jond, orgreat water, both because they belight in water, and because they wil have them safe from bermine. The meat that they most delight in, is Tares, wilde Fetch, Peale, Wheat, Willet: where thefe be not, you may gine them Spery, specially in Winter Kapesco, and Cockle : for by gathering and pecking by the felittle fieds, they get them felues a heat in cold weather. When you give them meat, you must throw it hard by

the walles: for that part is commonly cleanest from bung. And though Varro bids you to Iweepe and make cleane your Dones houses continually, & that the dung is god and profitable for the field pet feeing this kinde of fowle doth delight in places fprinks les with their owne bung, you thall not mere to be carefull in cleating of it. Loke weilthat they be not fraid, or diffuteted with Sunnes, og notie of people, og other like, specially when they fit: if you have occasion to goe into the house, fee that you doe it as bout none time, when they be abroad a freding, and be fure to knocke wel before you come in. Some fay, that it will caufe them to love the house, and allure others to come thither, if you sprinkle them with Commin befoze they goe to feeding, og perfume the house with Sage, and Frankensence. Some haue another experience for this purpole, and that is pottherbs beaten small and fearced, mingled with the hearbe Coaft, and good old Wine, and giuen bnto them. Dthers take Barly floloze, fooden with baie Figs, and a part of Donp. Cardan teacheth this, as the belt for this purpole of Barly or Billet, of Tommin, of Coaft, of Agnus Ca-Aus, of Hony, of old Lome, or Morter, of god Dufandel, boilethem all together, and make a frone of them to be fet in the middeft of a house. I ragus teacheth to take the rotes of the Thiffell, and to bottle them with the pickle of Dearings. Conflantine out of Didymus, writeth of divers other things for this purpole, which who fo will, may trie. Loke well that thep be not beffreved by the Waluke, or Buggard : the Bawke is a speciall enemie to this Wird, whole taking, Varro teacheth you in this manner : to lay a Digeon upon the ground, and to Micke, bending closely over her, a couple of Lime roos. There is a kinde of Dawke, that natur rally is terrible to other Hawites, and preferneth the Digeon: the common people call it Caffrell. Columella affirmeth, that if pou take the roung Calerels, and preferue them enery one in car. then bestels well conered and plastered all over, and hang them in the corners of the Done-house, it makes the Digcon have luch a loue to the house, as they will never forfake it. They have many other aduerfaries, Crowes, Daives, and Divies, which all deftrop the Pigeons, specially when they bried. I found of late in mine owne Done house, on Divie fitting solemnly in the Pett boon her Egges in the middelt of all the Digeons, and hard by ths

the honse of an old hollow træ, I found pæces of young Piges ons, that the Dwles had brought to fæde their young with: and though the Dwle sæme to be greater then the Pigeon, by reason of the thicknesse of her feathers, yet will they cræpe in at as little a place as the Pigeon will: so small and little is their bodies, though they be bombased with Feathers. Againe, Wæsels, Stotes, fuch like. Palladius would have you hedge the Doue-house about with sharpe prickly branches void of leaves, as Gorse, Bryers, and such like, as they dare not passe through for pricking. Dydimus and others, do bid you hang great branches of Aue all about the house, specially at the entrance of the dwre, or to put wide Kue water their wings, or to sprinche them with Aue: sor this hearbe (as they say) hath a special sorce against such hurtfull vermine. Some say, that if a Wolfes head be hanged in the Doue-house, it will drive away all hurtfull vermine.

MELLISSEVS. Whe have heard enough of Digeous, I pray you proceed with such other Birds as you keepe in the coun-

trey. Repe you any Felants here?

Fefants.

This kinde of Birds (though they CHENOBOSCVS. be verie seldome kept among the countrey people ) vet of many curious and fine fellowes, for their rarenelle and daintie neste, they are brought by and kept. And because they benefit the keeper, and profit the Dulband, ( if the foyle and countrey be for them) the old writers have placed the keeping of them, with in the compatte of hufbandie. Palladius teacheth, that you must provide fuch as be young and luffie, that were of the last pieres bringing forth: for the old ones be never fruitfull. One Cocke is sufficient for two Bennes : they brede once a pere, and lay to the number of twentie Egges, beginning in Appill, and some where in Warch, but they are better to be brought by under a Denne : so as you set binder one Benne fifteene Egges, obsers uing the time of the Done, and the number of the dates, as I told you before of the Henne. The thirtieth day they come forth : for the first fifteene daies you must fied them with Barly floure tenderly foo, and coled, bpon which you must sprinckle a little Mine. After you hall give them Wheate, Grashops pers and Antes Ogges : let them not come nære the Water for catching the Pippe, which if they chance to have, you Hall rubbe

Tubbe their billes with Garlicke, stamped together with Tarre. They are fatted in thirtie dayes, with Theat-stoure, or Barly-stoure made in Pellets, the Pellets must bee sprinckled a little with oyle, and so put into their throates: you must take hede you put it not buder their tongues, for you doe, you kill them: neither must you give them any meate till you perceive the first be digested.

PVLLARIVS. What say you to Turtle Doues, these

are also brought op and kept in some Countries.

ner lay, noz bzing fozth in the homfe, noz Partridges: and there, foze they vied to take them wilde when they were ful ripe, and to fiede and fat them in little darke romes like Pigeons holes: the olde ones be not so good, as neither the Pigeon is. In Winter you hall hardly have them fat, in Sommer they will fat of themfelues, so they may have plenty of Mheat and Tozne: the waster must be very cleare and fresh that you give them. They hold opinion, that the Turtle after he hath lost his mate, continueth ener after solitary. But because there is greater stoze of Thzus shough Thzushes and Blackbirds, we care the lesse foz kæping of Turtles. Thrushes yet as Plinie saith, there is in no place greater companie, then is and Black taken in the Winter time in Germany: that they were vied soz birds great vainties, appeares by Horace:

No daintier dish then is the thrush,

They are commonly dressed whole, and not drawne, for their inward partes may well be eaten, so they be new: their Crops are commonly sail of Juniper Berries: Pasker Varro writeth, that Thusbes were were in his time at twelve pence a piece. There they vie to kiepe them, they also put as many as they take wise among the others that they brought by before, by whose company and sellowship they passe away the sorrow of their prisonment, and fall to their seding: sor you must alwayes have olde sellowes for the purpose, by whose example they may learne both to eate to rinke. They must have warme houses, as your Pigeons have, crossed through with small Pearches: sor after they have slowen about, or have sed, they desire to rest.

The Perches must be no higher then a mans height, so as you may easily reach them standing byon your fiete. The meate must be cast in such places of the house, as ive not bnder the Bear. ches, for filing of it. Columella and Palladius write, that buripe Figges beaten and mingled with Wheate-flowe must be given them, that they may eate thereof their filles. Aristotle maketh many kindes of them, among which hee ale to putteth the Colmons , that feede bpon Grapes. Dur Thruthes doe feede for the most part boon Juniper berries, which their Croppes being opened (as I faid) doe thew. They ble also in many places to keepe Quailes, which is rather a Wird of the Carth, then of the Apre (as Plinie faith) but because they seede byon Cleboz, and benemous seedes, and beside are bered with the falling licknesse, many doe meruaile ( as Ather xus waiteth ) why they be fo greatly effemed. They fay their young muft be fedde with Antes , and Emets Egges, as the Partrioge. It is thought, that he flieth ouer into other Countries in the Minter time, as the Crane, and the Stocke both, following for the guide their oldest Quaile, called the mos ther Quaile.

Quailes.

PVLLARIVS. Pon have gotten one noble and goodly fowle, that is bled to be brought by in the hulbandmans Ponds, Lakes, and Rivers, I means the Swanne.

The Syvanne.

Chen observe. Pou sayteue: so, this Bird is commonly brought by in the Low-Countries, and kept in great numbers in Lincolne-chire, a Countrey replenished with Gentlemen of good houses, and god house-keepers. And Athenaus alledging the authoritie of Aristotle, accounted this Fowls to be very fruitfull, and of great komacks, so much, as it is thought they dare give battails to the Cagle. They are bred and kept (as you well say) in Lakes, Kivers, and Fish-ponds, without any charge at all, and doe great good in the Kivers by plucking by the wieds, and other annoyances: so, the excellency of his downe, and daintinesse of his stell, he is greatly essentiated. There is one excellent kinds of them, that taketh his rished and kept in the Ditch of Cities, and softresses, so, his great saithfulnesse in giving warning. They be kept almost in

like

Slufe.

like manner as Gele are, but that they vie to fit longer, fitting a whole moneth or there abouts: they bring forth seldome aboue eight, and so many did my Swannes bring me, and sometime fine. They make their Dells hard by the water, of Bedges, Micos, and like Auffe : their young ones they carry Araight into the rivers. If the Lakes and Streames be frozen in Minter, you must house them. This Bird is counted among such as live longest, foze-thewing her owne death, as Plato and Martial wite nelle, with a fweet and lamentable fong. Thus much concerning my profession I have told, I trust you that be my friends, will take it in good part, and now Piscinarivs I religne my

place to you, to whole turne it is come.

PISCINARIVS. It falleth out in good ozder, that from Of Fishtalking of Winter Fowles we thould come to entreat of Fifth, ponds. ponds, and fift: although I doe meane to entreat largelier both of keeping and taking of Fishes in my Halienticks, but because the hulbands house, both for watering of cattell, and other bles, cannot be without Ponds, and Lakes, and that every house is not fo feated, as it hath earable ground about it, it is lawful for the hulband to make his best advantage of his Ponds, and Waters. The Poble-men and Gentle-men of Rome, were wont to build about their Boules faire Fift ponds, and many times fas tiffied herein their pleasure, with ercieding cost and expences, as M. Varro writeth of the sumptuous and coffly fifth ponds of Hortensius, Hircius, and Lucullus. M. Cato, when he had the wardship of Lucullus, made foure hundzed pound of the Fish in his Wond. The same Varro maketh mention of two sozts of Fish-ponds, the one of sweete water, the other of falt, the one amongst the common people, where the Spzings feede them, and of great profit, the other nere to the Sea, where Neptune both pield them both fore of Water and fish: for examples, may ferue the Fish-ponds of Horrensius, which rather pleased the epe, then the Burse. The best making of Bonds, is eye ther by the Sea, as Lucullus, who to let in the Sea into his Ponds, made a passage through the middest of a great hill, where by he thought himselfe as great a Lozd of Fish, as Neptune hims felfe : 02 elle to have them from some great Areame 02 River, that may bring in both Water and Fish, inhich by Flond or 美 3

Slufe, may let in alwaies fresh water, not suffering the old to corrupt, but alway refreshing it, and bringing more fish. The nert in goonesse, are those that are fed with pipes or sccret pal. lages bnoer the ground, and may be let out againe by Slules, which Slufes must so be made, as when you list, you may let the water into your Meadowes, to make them moze fruitfull, as is to be fiene in the Countries of the Switzers, and Heluctians, and in many other places. And therefore the waters ( as I faid ) must be well inclosed with god Bayes, Bankes, and Walles, that they may be able to abide the rage of the flods, and the water. The worlt and last kinde, is such as are made in Lakes, flanding Poles, 62 raine waters. Thefe kinde of Ponds, though they be the work, by reason of their bucleane Kinking and corrupt mater, pet where there is no better, are to be made account of : for though they be not the wholesomest for kieping of filh, pet they pield some commoditie, and are most necessary about the house, epther for watering of Cattell, kies ping of Giele and Duckes, and walhing, and other like bles: but if so be you can make them eyther by the Sca, or niere some great Kiner, to as the water may be let in and out at your pleas fure : and whenfoeuer you open the Slufes, to let out the was ter. Be fure that you have them well grated, that the fill can by no meanes passe through, and let the passage, if the place will fuffer it, be made on enery fide of the Joond : for the old water will best void, tohenfoeuer the streams bends, if the currant lpe as gaintt it. Thefe Blufes or Passages, you must make at the bots tome of the Donos , if the place will fo ferue , that laying your levell with the bottome of the Pond, you may discerne the Sea, or Riner, to lye featien fote higher : for this Columella thinkes. will be a sufficient levell for your Pond, and water enough for your Fift. Howbeit, there is no doubt, the tieper the water comes from the Sea, the cooler it is, wherein the Filhes molt belight. And if so be the place where you means to make your Bond lye levell with the beim of the Sea, or the River, you mut digge it nine fote dope, and lay pour Currant within two fote of the toppe, and so order it as the water come in abundantiy: for the old water lying buder the levell of the Sea, will not out againe, except a greater rage come in : but for the Pond that is fublica

sublect to the floud and ebbe, it is enough if it be but two fote biepe. In the bankes and fides of thefe Ponds, you must have Buthes and Trake-holes for the Fifth to hide them in from the heat of the Sunne : belides, old hollow trees, and rotes of trees are pleasant and delightfull harbours for fith. And if you can handsomely conney them, it is best to bring from the Sea, little Rockes, with the Wieds and all byon them, and to place them in the middeft of your Ponds, and to make a young Sea of them, that the Fishmay scarsely know of their impassonment. About Turwan in France, and in other places, you Mall finde in Loughes and Rayne-water, even in the Wildernelle and Beathes, great abundance of Fish. In diners places of the low Countries, where they have their Ponds fed with the River, which they may that out at their pleasure, they so order them, as they be either enuironed, or benived with deeper ditches, wherein the Fish doth live in the Summer time: and the rest of the ground betwirt the ditches, the water being voided and kept out by Slufes and Bankes, is sowed with Summer Come, and after Parueff, the water let in againe, whereby the ground be ing wonderoully enriched, doth yeld great Croppes of Barly and Summer come, and (as the Poet laith) for the land, fo may be fait for the water, Not every ground for every feed, but regard must be had, what for enery one is met. The Komanes keepe in their Bonds Lampzies, Dyffers, Luces, Bullets, Lampozns, Supltheodes, and all other filhbelides, that are bled to be kept in fresh waters. Ponds foz Dyfters, were first deuifed by Sergius Orata, at the Baynes, about the time of L. Craffus the D. ratoz, befoze the Battaile of Marlie, not fo much foz belicaffe, as for the commoditie and gaine. Cockles, and Puffics, mers kept in Ponds by Fuluius Hirpenus. Dozeouer, diners fiches velight in divers places. The best Dikes and Luces were thought to be in the River of Tyber, betwirt the two bringes : the Turbotes, at Rauenna : the Lampapes in Cycill : fo Kiners, Lakes, Pooles, and Seas, in some places haue better Fift, then But to returne to my Fifty-ponds from whence in others. I came, neyther may all foats of Fishes be kept in enery one, for some forts are granellers, delighting onely in Granelly, Stomp, and Sandy waters, as Meanowes, Sudgins, Buiheads, Ruffes.

Kuffes, Trouts, Perches, Lampzons, Creuiffes, Barbils, and Cheuins. Dthers delight againe in Duddie places, fæking euer to lie hid in the Dud, as the Tench, the Cele, the Breame, the Carpe, and fuch others. Some againe belight in both, as the Dike, the Luce, the Carpe, the Breame, the Wieake, and the Roach. The Granelly Filhes, specially the Menowes, are ingendred of Sheepes bung, laid in small Balkets in the bottome of a Granelly Kiner. The Luce, or Dike, groweth ( as like. wife doth the Carpe ) to be great in a Choat time, as in thace or foure yeres, and therefore in such Ponds as have neyther the Dea, noz Kiner comming to them, we ble enery fourth, oz third piere, to draw the old, and to fore them with young. And in these parts we chiefely stoze them with Carpe, hauing small Ponds and Stewes for the purpole to keepe them in , lo as pou may come by them at your pleasure. Thus much I thought god to occlare but o you touching my profession, let be now fee what you (MELLISSEVS) can say for your Bos, and your Dony.

Bees.

MELLISSEVS. Because I will not have our discourse of hulbandry deprined and mapmed of fuch a profitable member. whole ble map in all places, be they never lo defert, or barren. be had, I thinke it god as a conclusion to the whole, to thew you for my part, the manner of keping and ordering of Bes: for the good hulband by cherishing of them, picketh out many times a good piece of his lining, pea, the poze soule of the Countrey that hath no ground to occupie, may raile bereof and that without charges a great commoditie. Merula repozts, that Varro had percly for the Rent of his Bes, a thousand gallons of Hony: and that in a house in Spaine, having not palling one Acre of ground toit, bath perely bene made of the Bes, foure. score pounds worth of Ware and Hony. This little porecreas ture the 13 ie, doth not onely with her labour yield buto be ber delicate and most healthy Hony, but also with the god erample of their painefull diligence and travaile, encourageth man to labour and take paines according to his calling: in such fort, as it fæmeth the Almightie and most excellent Paiestie, hath of all other specially created this little pooze creature, for the benefit and commoditie of man ; by whom besides the com-

moditie

Industrie of Bees.

moditie of the Honcy and Mare that they make, we might take both example to spend our life in vertuous and commendable ers ercifes, and also to honour and reverence the wonderfull bountie and godneffe of the most gracious Lord thelved towards bs, in the creation of this small and profitable Morme. They arecons tinually buffed in labouring, they thew great cunning and worker manthip in their travailes : they have alwaies among it them the lively Image of a perfect Common-wealth, they pield obedience Bees their to their Prince, not liking the gouernment of funday heads, but Commonloue to be ruled by one: each one of them laboureth and trauap, weales. leth in his charge, in so much, as the wifest Gouernours and Councellers in Common weales, haue taken the Bes for their Patterne in choling of Princes, diffributing of Offices, rewars ding of vertues, and punishing malefactors. Varro did alwaics call them the Birds of the Dufes: and Virgill with wonderfull The Birds colours, both eloquently fet forth the Bes, their Common weale, of the Walaces, Buildings, Citics, Lawes, Manners, Marres, and Tranailes, supposing them to be partakers of reason, and that they have some instinct from aboue, in that they so nere resemble the mindes of men, yea, many times excell them, touching their obedience to their Paince.

Virgilli

Not Ægypt in his prime, nor Lydia large and wide,
Ne yet the Parthian people great, nor all the Medes beside,
Doe so their King obay, who being sase and well,
Their mindes are all together one, he onely beares the bell.
On him they cast their eyes, and garde him day and night,
And oft they beare him on their backs, in his defence they sight:
But if he chance to dye, then all is dasht and done:
Their Combs asunder downe they teare, and all to ruinerunne.

If the King be taken, the whole Swarme is had: if he begone, they disperse themselves abroad, sor they cannot live without a King, hating as well the headlesse government, as the subjection to many heads. If the King, or (as we tearme him) the Paister Kie die, the whole swarme droupeth, and mourneth, they straight wates cease from gathering of Poney, they stirre not abroad, but onely with a heavy and sorrowfull humming, they swarme and cluster

I He Tourth Dooke,

cluster together about his bodie. The nature surely of this poze creature is greatly to be wondzed at.

Virgil

They onely of their broode have a common care. And neighbour-like their houses nearely stand: And ruled are by Lawes that none do spare, Alone they know their home and native land, And mindfull of the stormy Winter neere, In Summer get to live by all the yeere.

Their Princes pallace is sumptuously built, in some severall part of their Piues, being mounted about the rest, which if you have pen to broose, you destroy the brood. They live all as it were in a Campe, and duely kiepe their watch and ward, working to gether, and oftentimes sending abroad their Tolonies, they are warned at their Captaines appointment, as it were with the sound of a Trumpet, by which they know both their times of warres, and truce: they ward all the day time at their gates in warlike manner, and have great silence in the night, till one of them in the morning humming out the eischarge of the watch: they get them abroad to their businesse, as the Poet hath elequently expressed.

Virgil.

Together all they quietly doelie.
Together all they toyle with equall might:
And in the morning forth together flie.
And home as fast they come againe at night.
Where as they lay their weary lims to rest,
And trim their wings, and set their legs in frame:
Till every one himselfe hath throughly drest,
Then singing at their doores a while they game.
Till one gives warning for to go to bed,
Then downe they lay to test their sleepie head.

For when the flexistime of the night comes in, they make lefte and lefte noise, till one of them goeth about with the like sound that he gave in the morning, setting as it were the watch, and giving them warning to go to rest; at which time they all sud-

denly

denly hold their peace. In the morning (as I faid) at the discharge of the watch, they roame straight to the gates, but five not abroad, except they six the weather will be faire: whereof by nature they have perfect understanding.

Nor from the Hiues, if like it be to raine,
They farre doe stray, nor trust will they the skie
If that the South-wind blow, but still remaine
At home, or busied be with waters nie.
Short slights they make, and when such stormes they see,
They beare about the smallest stones they finde:
And as the Boates in floods that balast bee,
So with the same they counterposse the winde.

Bees foreflewing of flormes:

Being loded, they flie with the winde: if any tempest suddenly arife, they counterpoile themselves with little flones, flying in the winde as neare the ground as may be: their labour, both at home, and abroad, is certainly appointed. They labour at the first within the compatte of the escape paces about the Dine, and when the flowes there have beene sufficiently wrought, they fend as broad their discouerers to finde out more fode. And when they fall all together to their bufinelle, some worke the flowers with their fiete, others carry water with their mouthes, and droppes in their little fleses: the young luftie fellowes labour abroad. the elder at home. Those that goe abroad, do with their forelegs lade all their Thighes, which nature for the nonce bath made rough: thus being loaded, Legs, Dead, Backe, and all, as much as they may beare, they returne home, where there waiteth com. monly thee of foure at the twee to buload them. Within, all this while are some laying in order, some building, some making cleane, and fome making readie their meate : for they fiede feuerally, for feare of beguiling one the other. They frame their houses archivise within the Dives, with two passages, so as thep may enter one way, and goe out another. Their coames that. they make are wrought full of holes, which holes (as Varro faith) are their Celles or lodgings, made enery one fire quare, accorbing to the number of their fet: thele Celles they boe fill with Dony, filling enery one in a day or two. Thefe coames are faltnea

faltned to the byper part of the Hine, and hang little byon the fides, not cleaning to the Hine, being now coencred, now round, according to the falhion of the Hine: as both Plinic reporteth, and I hall hereafter them you, when I speake of the framing of the Combs. The Combs are kept by from falling, with small pillers and proppes below, so built as they may go eround about to repaire them. The three first losts of their Celles beneath, are lest emptie sor feare of the Hine: the uppermost are as full as may be, such as are loyterers and tole vagabonds amongst men, are noted, and punished with death.

The punishment of loiterers.

> Some range for food and plie the fields abroad, Some still at home doe labour busily: And round about with waxe the Hiues doe loade. Which from the gummes they painefully doe trie. The first foundations for the Combes they make, And clammy cleaning Waxe they fasten by : While others of their broode the charge doth take. And fosters vp the seede that shall supply. An other fort doth worke the Hony pure. And filles the Celles with licour that you fee: And others are appoynted to the doore, To looke abroad vvhat vveather is like to be, Or to vnload fuch as have laboured vvell, Or els to driue the drousie Drone away: Their labour smokes, and all of time doth smell, The Hony sweet that in their Combs they lay.

And a little after.

The great doe guide the Hiue, Make fast the Combes and Pallaces contriue,

CHENO. Df the worthineste, travaile, workemanship, and god order of this little creature, you have sufficiently spoken, it now remaines that you declare but o bs their sundry kindes, their keping, and their ordering.

MELLISSEVS. Aristotle maketh many sozts and kindes

of them, whereof he counteth the Most speckled, and well knit to The kinds the best: and next to them, the long ones like Waspes: the third, of Bees. the kinde that you call the Thefe, with a very large bodie : the The fourth, the Drone, being bigger then all the rest, wanting both Theefe. his thing and courage to labour : and therefore they ble to make The at the entrie of their Hines small Grates, wherein the Bie may enter, but not the Daone. And the same Aristorie,in the chapter before faith, that there are two kindes of Bings or Paister Bis, the one of a golden colour, which is counted the best: the other blacke, and moze partie coloured: they be twife as bigge as the other Bos, the tayles of them as long as one and a halfe of the other, they are called of some, the Bother of Bas, as the chiefe Breeders. becoders, because the young of the Drones are bredde without a Bing, but the other Bes neuer. Virgill following herein Ariftotle, both most commend the little, long, smothe, and faire Be, The best and making mention of two forts of things, he describes the was forts of fer, whereby he hall doe no harme.

Destroy (saith he) and let the other live,
Whose golden hew doth glister in the eye:
And decked with glittering scales, faire shew doth give,
Of farre more grace, and farre more Maiestie.
With loathsome looke the other doth appeare,
And dragling drawes his tayle with heavie cheare.

The shape of their King.

And as there is two forts of kings, so is there of the other Bis.

Some Vglie seeme, and some againe doe shine, Bedasht with drop of golden colour sine,

Being milde and gentle: for the Bie, the greater he is, the worle he is, and if he be angrie, and fierce, and round, he is worlf of all. And because (as I said before) the best are onely to be medled with, sith the god and the bad are a like chargeable, and require like tendance, and special hede to be had that you mingle not the bad with the god: for lesse will the encrease of your Honey be, if some of your Swarms be ill matched. Pou may store your selfe with Bies their manner of waics, eyther by buying them, taking

What to be confidered in buying of Bees.

the wilde Swarmes, or making them by Arte. Such as you buy. let them be of the kinde and shape that I told you of, and be sure before you buy them, that the Swarmes be whole and great, which you may judge by loking into the Dine, or if you cannot be suffered to to doe, you may guesse it by other tokens : as if so be you for great numbers cluftring at the doze of the Dine, and if you heare a great hussing and humming within: 02 (ifthey be all at reft) putting your lippes to the mouth of the Dive, and blows ing therein, you thall easily perceive by their answering found. whether their number be great of no. In buying them, belide, you must loke whether they be found, or sicke: the signes of their being in health (as hall be webwed when I speake of their disease les) is, if their Swarmes be great, themselues faire, and well coloured, and worke luffily. Againe, a token of their not being well: as if they be happie, loke loathsomely, and dustilie, except at fuch time as they labour : for then they ware leane and ruffe. with extreame travell. Dou muft make your confedure likewife by their age, such as are not about a piere olde, loke faire and smothe, and thine, as if they were Dyled : the old ones are both in fight and feling, ruffe and rugged, and by reason of age, wainche led: which neverthelette, for cunning in making their Combs, experience, industrie, and Chilfulnesse in the weather, doefarre Transpor- passe the others. In any wife fie that you buy them rather from pour nert neighbour, then from a Arange Countrep, og farre off, for they many times perify by change of agre, or haking in the carriage. And if you be driven to carry them farre, take hede you neyther togge, noz tumble them : the best way to carry them is byon a mans Moulders, and that in the night time, luffering them to rest in the day, and polizing in to them such sweet things as they delight in, and kieping them close. It is better remoung them in the Spring, then in Winter: for they doe not so well as gree with Whinter. If you carriethem from a good place, to a barraine, they will Araight-wayes bid you farewell, and forfake their Dines. When you have brought them to the place where you meane they hall fand, if it be day time, you must neither or pen them, not place them till it be night, to the end they may af ter the quiet rest of the night, goe chierefully to their worke the nert morning. We fare to marke them well befides for two or

ting of Becs.

The taking of Bees.

thie dayes after, whether they goe all out or no : for if they doe, it is a threwde figne they will away. Sometime, if the place be god, you hall affay to fore your felfe with wilde Bas : for al. though that Bies (as Plinie faith) cannot be rightly tearmed of ther wilde, or tame, yet Varro calleth them wilde that briede in wilde places, and tame, fuch as we keepe at home : and affirmeth the manner of keeping them to be diners. There is great Stoze of the wilbe fort in Sarmatia.

PVLLARIVS. They say, that in Liuonia and Sarmatia, (from whence is brought hither great Roze of Ware, and Hony) the Countrey people boe gather it in great abundance in hollow

tres, and befart places.

MELLISSEVS. The greatest token of Bies and Honey nere, is where they be in great numbers about the waters: for if pou fe the number but small, it is a figue it is no goo place for 25 es, and if so be you se they come in great numbers, you may fone learne where the flocks be : in this fort, as Columcila and others have taught: Pou thall carry with you in a Saucer, og fuch To finde Ithe thing, some redde colour, or painting, and standing niere to out the fprings, or waters there abouts, as fall as they come, touch them bpon the backes while they are a dainking, with some little fraw dipped in the colour: and farry you there till such time as you fe them returne. If the Bos that you marked doe quicklie returne, it is a token their houses be not farre off, if it be long ere they come, it thewes they dwell farther off: wherefore you may funge by the time. If they be nere, you hall calily finde them, if they be farre off, you thall come to finde them in this fort : Wake a piece of a Riede, og a Ber, with his knots and fognts, and making a small hole in the side, powie into it cyther Honey, or fome limite thing, and lay it by the water : and when you fee the Bes have found it, and entred the hole for the favour of the Hos ney, Koppe you the hole with your thumbe, and let but one goe out at once, whose course you thail follow, as farre as you can so him, and this thall bying you part of the way: when you can no longer fæhim, let out another, and follow him, and fo another, one after another, till you come to the place. Others ble to let some little bestels with hony by the water: which when some one Bie or other hath hapned to talte, the gineth Araight knowledge

to her fellowes, whereby by their flying in number, they come to finde out their dwellings. If you finde the Swarme to be in fome fuch hole, as you cannot come at them, you shall beine them out with moke, and when they be out, bring them downe with the ringing of a lattin 13 afon, fo as they may fettle byon fome tree. from whence you hall thate them into your Dine. If the fwarme bee in some hele abone in the brainches, you may saive off the branch handlomeip, and conering it with a white cloth, place it amonalt your Dives. If they be in the body of the tree then may pon foftip falve off the tre aboue the Bes, and afterward, close binderneath them: and being concred as before, carry them home. Ropping well the chinks and riftes, if there be any. We that fie, keth the Bos, must begin in the morning, that he may have the whole day before him to marke their labouring. Thus farre of the kindes of Bas, and getting of them: now will I thely you of the placing of them, ordering, and keeping of them. The place for pour Bes and your Diucs must be fo chofen, as they may frand quietly and ferret, francing specially in such place, as they may have the Sunne in Winter, and in the Spring time al way at the rifing, and fuch as is nepther to hot, not to cold : for the erceffe of evther doth hurt them, but rather temperate, that both in Summer and Winter, they may have moderate warmth, and. wholesome avee, being farre remotted from the company of ep. ther man, or beatt.

Standing for Bees.

Where neither winde may come, whose blasts forbids
Them bringing home their loade, nor sheepe, nor wanton Kids,
To spring among the flowres, nor warding best,
Shake off the dew, and trampling spoyle the rest.

What Ver- For they most of all delight in quietnesse: beware beside, that mine anthere be no hartfull creatures near them, as the Tode, that with noyeth the his breath doth both popson the Bee, and also draweth them to bees. him, the Modpecker, the Swallow, the Sparrow, the Storke, Spidars, Pornets, Butter-spes, Serpents, and Pothes.

Drive from thy Hives the hurtfull Lylart greene, Keepe Throstles, Hennes, and other Birds vntrew:

And Progne, on whose brest as yet is seene The bloodie marke of hands that Itys flew.

All these destroy thy Bees, and to their nests doe beare

Such as they take in flight, to make their young ones cheare. Df fuch things as hurt your Bies, I will hereafter speake moze, The valley where I hall thew you of their difeales and harmes: in the meane better for the Bee, time I will goe forward with the placing of them. The place then the where they Gould Stand, would rather be in the valley, then beshill. rie high: but so as the rebound of no Ecco, doe burt them, which found is verie noylome buto them : lo thall they flie with moze eafe and speede to the higher places, and come laden bowne as gaine with lefte transile. If the feate of the house will so suffer, it is god to have your Bes fand niere your house, and to be enclosed with a hedge, or a pale : but on such Goe as they be not ans noved with the fent of finke, printe, or dunghill. The belt fans ding, is within the light of the master, by whose presence they are lafelt kept. for their better lafetie (if you feare them) bou may let them a yard or more from the ground, enclosing them with little grates left open against enery Dine, 02 fo lettifed with Kone, as the Bie may easily come out and in, and escape both Wirds and Water: oz if you lift, you may make a little house by for the Kieper, wherein you may lay your Hines for your Swarmes , and other necellaries mete for pour Bes, letting nære to the Hines some Chadowing Tres for them to swarme bpon, according to the Poets aduice.

And plant the Date tree neere, or pleasant Olive tree, That with their floury branches sweet, thy hiues may shadowed That when the Captaines young, lead out their lustie swarmes, The pleasant shade may them allure, to shun the greater harmes.

Not needing for their ease, in places farre to roame,

When as they may more safely sit, and better speed at home.

If it may be, let them have some faire Spring nere them, or elle Faire wasome water conveyed in pipe: for without water they can neys ter necesther make Hony, Mare, not breed op their young : and there fary for fore faith the Woet.

Haue fountaines sweet at hand, or mossie waters greene,

Or pleasant brooke that passing through, the meads is sweetly And Araight-waies after.

If either standing poole be neither to them nie,

Or running streame with hasty course, their dwellings passeth by Cast boughes of Willow crosse, and mightic stones with all.

That may preferue the fainting Bee, that in the floud doth fall.

Hearbs that Bees delight in.

Round about the Be-pard, and niere to the hines, fet hearbes. plants, and flowers, both for their health, and profit: specially fuch as are of the finetelt and belicatest fauour : as Ciehyfus, Dime, Caffia, Kofemary, Sauery, Smallage, Wiolets, Sage, La uender, Aparhe, wilde Marierum, wilde Tyme, Walme, Cwete Marierum, Baffcon, Beanes, Buffardiet, Poppep, Wellitot, and Rofes. And if there lie Ocound neere it for the purpole, fow it with Kape febe, and Bechinheat : for they wonderfully delight in the flowers hereof. Plinic writeth, that Bies belight greatly to have 13:0me flowies neere them : oftres they mot delight in thefe. The Dine, the Willow, the Fiere tre, the Almond, the Deach, the Deace-tree & the Apple, and fuch as the flowers there. of be not bitter. Di the wilde forts, the Terebinth, the Lentife, the Lind-tree, the Cedar, and the Waltholine. The best hone (as Palladius faith ) is made of Time : the next of wilve Time : the third, of Molemary. Doumnit remove from your Bes, the Dew tre, Mor, and the Comel: Plinic would also have the Dlive alvay. Banish also all the kinos of Sporge: for with that, as also with the flowies of the Coincil they fall into a Fire and Die. 13 effes you must suffer no Mozmewod, 1802 wilde Cheumber to grow nere them, for they both celtroy the Bas, and spople the honie. And be cause the floinge, og fruit of Cimes doth specially hurt them, therefore in such parts of Italy where plenty of Climes grow, the 15 es do not long continue. Touching your hines, they are made of divers fathions, according to the manner of the country. So me are made round, some square, some that fot in height, and one in breadth, made very narrow toward the top, leaft the Bas thould ouerlabor themselves in filing of them. Some make

their hines of Lanterne home, or Blatte, to the end ( as Plinie

faith) that they may viely the manner of their working, Varro maketh mention of earthen hines well plaistered within and without with god Ore-dung, so as the roughnes and ruggednes cannot displease them: but for all that, the earthen hines be the worst that may be, because in Summer they be to hot, and in

Winter

Hearbs noylome to Bees.

Of the Hue,

Whinter to cold. The best hines, are those that are made of Cooke wicker, or rindes of tres, because they tiepe out both cold and heat: the next are fuch as are made of Straw and Wents matted toger ther two for in becoth and fo much of more, according to the name ber of pour Bos in height. In some places they make them of one piece of wood, cut and hollowed for the nonce, or of topned boords, fine or fire fot in height, and thele neither are to hot in Summer, nortw colo in Wilinter. Df thefe wooden hines, the best are those that are made of the Figge tree, Dine, Albe , and Walnut, of fuch length ( as I told you ) and a cubit in breadth. Befides, they would be conered with either Line, 02 Dredung: for fo (faith Florentine) you that keepe them long without rotting. Bon muffallo boze them through dopelvile, whereby the winde gently entring, may date by all cobinebs, or fuch like novances. Bou must altraies have god floze of hines lying by you, that may be remoued, and easily carried where you lift : for the fired, or Handing hines, be discommodious, as which you can neither felmoz cemone: though Celius feme to commend the Randing hines, because they are neither subied to fealing, noz burning, being made of Brick, or Loame. Pour hines (as Columella out of Celfus both Howyou teach) must stand byon some table of stone, a pard from the must place and ground, fo much in breadth, fo finothed and platfered, as new your hines. ther Moad, Quette, 02 Snake may criepe bp : and in fuch order they must be placed as there may be betwirt cuery one a little mall. oz partition, being open both befoze & behinde. If von haue no fuch partitions, then place them fo, as they be a prettie way biffant one from the other, that in breffing and loking to any one of them, you hake not, not burt the other : for a little fumbling both foone marre all their houses, and many times spople the Bees. It is enough to have their rankes of them, one about the other : for the kieper thall have enough to doe, to overloke the oppormost. The part where the Bee doth enter, mult stand a little lower then the hinder part, fo as the raine can not runne in, and the water ( if there be any) may easily boide. And because cold both moze annoy the Be, then heate, vou must arme your hines well behinde, against the hurt and bitters neffe of the Porth winde, and let the Some come bountifully to them in the Front. And therefore it is best for you to make

the holes where they come in and out, as smell as you may, that they suffice onely for the bignesse of the Bie, partly for anoyding of cold, and partly to keepe the Guets, Betels, Butterflies, Bats, Mothes, and such other hurtfull vermine, that would otherwise destroy the Combes: wherefore it is god you have two or three fuch small holes together in every hive, for the commoditie of the Bee, and refraine the enemie.

PVLLARIVS. WHell, I pray you let be know when the

Bee beginneth to labour, and when he cealeth. MELLISSEVS. Because I have occlared buto pou befoze

their toile, their diligence, and order of their trauaile, I will now like wife thew you what time they begin to labour. In the Winter time, from the fetting of the feauen farres, till the beginning of When the the fpzing, they keepe their houses, and come not abroad, by reason Beeresteth, of the cold in the spring, they come Braight abroad, and from that time forward ( if the weather let them not ) they never rest day. and order First of all, they frame their Combs, and War, that is, they make of his tra- their houses and chambers, whereof they make so many, as they thinke themselves able to fill: then fall they to breeding, and lat of all, to making of hony. Their Mare, they make of the flowes, trees and plants : their honie , of the gummes and clammine Ce of tres that are glewy, as Willow, Climes, Rad, Juice, Bumme, and Rozen: Auftotle faith, they make their Combes of flowers,

their Mare, of Gummes, and their Hony, of the delw of the Apre, that falleth chiefely at the rifing of the flarres, and that there is no honie made befoze the riling of the leaven Carres, and their combes of flowers, and that the 13 es do not of themselves make the honie, but onely gather the honied delv that falleth, because the kiepers finde the Celles to be filled in some one, or two daies: and that the honte being taken alway in the end of Dummer, the hines are not found to be furnified againe: though there be flowers enough at that time. This, and much moze heereof (faith Aristotle) whom Plinie following, affirmeth honte to be made of the Ayre most of all, at the rising of the starres, chiefely the Dogge thining out earely in the morning: there-

fore you hall finde in the morning betimes, the leanes of the trees bedewed with honie, as you shall likewise have the Aps

ginning

In the morning, our Common people call it Manna, 82 Hony- Manna, bew, cleaning to the leaves befoze the rifing of the Sunne, as it were Snow, oz rather Candied-Sugar. Whether it be the Queate or excrement of the Deauens, or a certaine spittle of the Starres, or a furce that the apre purgeth from himfelfe: helvfo euer it be, I would to Bod it were fuch as it firft came from to bone, and not corrupted with the vapours and damps of the earth. Belides, being lucked bp from the leaves by the Bees, and die selfed in their Dawes (for they cast it by at their mouthes) and also diffempered with the sent of the flowers, ill seasoned in the Dines, and fo often altred and transformed, lofing much of his heavenish vertue, hath pet a pleasant and speciall celestiail sweets nelle in it. The bell Honey is of Time (as 3 haue layo befoze) The beft and god likewife of Cithifus, of the Figge Tre very pleafant : Honey of Varro faith, they take not their fuftenance, and their Honey Time. both from one. A great part of their fode is water, which muft not be far from them, and mult be very cleane, which is greatly to purpole in making of good Honey. And because every season suffer reth them not to be abzoad, they must at such times befed, least thep hould then be forced to line all byon the Honey, or to leave the Diues emptie. Some gine bnto them Water and Honey, fot Bees, their Den together in little beffels, putting into it Purple woll, through Winterthe which they fucke it, for feare of drinking to much, or drows ning themselues: others, day Figges, either Camped by thems felues, or mingled with water, or the droffe of Capes, or Reas fins mingled with sweete Wine, and tolks made therewith, og with Boney : yea, I have feene some ble (but in my fancie with out reason) to give them Bay Salt. Pozeover, as the Bestes quire great loking to continually, and their Hines dayly attens Dance, so most of all they crave diligent regard, when they are as bout to Swarme, whereunto if you have not a great god eve. they will bid you farewell, and fæke a new Paiffer. For fuch is the nature of Bes, that with enery Paince, is bacd a Commons Going awealth, which as some as they are able to travaile, doe as it were way of disdaine the government and fellowshippe of the old Bie, which Bees, and the tokens most hapneth when the Swarmes be great and lustie, and that thereof. the old Stagers are disposed to fend abroad their Colonies : and therefore you hall by two tokens specially know when the new

Princes with their people will abroad. The first, when as a day or two before they clufter and hang (foecially in the evening) as bout the mouth of the hine, and feeme to thew by their comming out, a great defire tobe gone, and to have a kingdome and Countrey by themselves: which, if you prepare them at home, they content themselves very well with it. And if the Beper proutde not for them, taking themselues to be greatly iniured, they des part, and feke a new dwelling. To preuent this mischiefe, Columella willes you to loke diligently to them in the Spring time about eight of the clocke, or at none: after which houres they commonly goe not away, and to marke well their going out and comming in. The other figne is, that when they are readic to fige, or going, they make a great humming and noyle, as Souls diers readie to remone their Campe. At their first comming out, they five aloft, playing by and downe, as it were farrying for their fellowes till all their company come. Dea, many times the old inhabitants, being wearie of their divellings, doeleans their hines, which is perceived when they come fo out, as none remaine behinde, and prefently mount into the apre, then mut pou fall to ringing of Pans and Basons, to feare, or bring bowns the run awayes, who being amazed with the great and suddaine nople, one epther presently repaire to their olde hine, or elfe knit themselves in swarme bpon the branch of some tre nere to the place : then must the thieper out of hand be readis with a new hine prepared for the purpole, and rubbed with fuch hearbs as the 13 de delights in, og fpzinckled with little brops of honie (3 haue feene in some places bled Creame) and so thaking them into the hive, and concring them with a thete, let him leave them till the morning, and then fet them in their place. De mult (as I told you before) have divers new hines in a readinelle to ferue the new hines, turne withall. And if so be you have no tras noz bushes grows ing neere the hines, you must thaust into the ground certaine boughes and branches for the purpole, whereupon they may knit and fettle themselves, and rub over the boughes with Balme,02 fuch pleasant hearbs, that when they ( as I say) unit and settle, putting bnder the hine, and compassing them with some little Imoke, you may cause them to fall into a new Countrey: for they will rather goe into a new hine, then into an old: yea, if you

Bees delight in

offer them the hine that they came from, they will forfake it for a new. Some of them will suddenly leave the hine without any tacrying, which the keper may perceive, if he ble to lap his care Signes of in the night time to the hines : for about them dayes before thep fuddaine! goe, they make a great nople, like Souldiers ready to raile their and reme-Campe : which Virgill noteth :

Their mindes are easily knowne; for such as stray, The brasen sound commaunds to come away, When through them all a warning voice is fent, That doth the warlike Trumpet represent.

And therefore when such noyse is heard, they must be very well watched, whether they come out to fight, or to fly, the keeper muft be at hand: their fights, whether it be among themseines, or one hine with another, are easily flickled:

A little dust cast vp on high, Doth end the quarrell presently.

De Ponico water, fivete Wine, Broath of Reafins, or any pleas fant liquour, wherein they delight, cast and sprinckled amongst them both fraightwates part them. The felle-fame remedies makes two Princes of them, being fallen out, to be quickely goo friends againe : for when there hapneth many times to be in one hine funday laings, by whole diffention the whole number Divers of the Subiens, in the Dainces quarrels, goe together by the Kingsin eares, you must by all meanes foke to remediett, least by civell one Hine. diffention, the pose people be destroyed. And therefore if you perceine them often to fight, your best is to kill the headdest of the diffention and to appeale the fury of the fighters, by those means that I told pou befoze. And when the Partial Swarme is letled byon some branch of a tre, lok if they hang all together like a clus Ber of Grapes, which is a figne, that there is either but one King, or if there be moe, they be agreed : and then you thall not trouble them, but take them into the hine : but if fo be they hang in two or the clusters, like the Paps or Adders of a beatt, it is a figne there are divers Hafter Besthat agree not together: for which pon Hall fearch where you lie the Bies to cluffer moff. Theres fore annointing your hands with the tupce of balme, or Bewort, that they may abide you, thauft in your fingers foftly amongst them, and theoding the Bes, fearch well till you have found the ring

ofthe King.

ring leader of the diffention, lohom you must take away. What The hape the proportion and hape of the Bing is, I have told you a little before, that is, something longer then the other Bies, and leffer winged, of a faire and gliffering colour, finoth, and without fling. Dolvbett, some of them be Magheard, and ill coloured, which are naught, and to be killed: Let the best (as he saith) weare the Crowne: who must himselfe also be deprived of his wings, if he be to buffe headed, and will alwaies be carrying his people abroad:

To keepe the King at home.

so shall you, with the loss of his sayles, keepe him at home spight of his teeth, while he dare not for want of his wings benture out of the dozes, and so thall he keepe his people at home. Dydimus. writeth, that the Bes will never goe awap, if you rub the mouth of your Dive with the dung of a new calued Calfe. To the fame end feruethit, if you frampe the leaves of wide Dlives, and. Barden Dlines together, and annoint the Dines in the evening therewithall: or if you wall the Dines and the walles with Ho. ney fodden with water. When an old focke is come to a small number, and that there be not Bos enough to furnish the Diue, you must supply the want with a new Swarme, destroying the king of the first swarme in the Spring, so shall both the swarms owell together in amitic with the old Parents, as chalbe thewed you hereafter, where I meane to speake of repayzing the focke. The Summer being patt, ensueth the time for taking of Bonep, to which harnest the transile of the whole tendeth. The time for

The Drone,

or driving gathering thereof, Columella teacheth to be then, when we perthe Hives, ceine the Drones to be driven out, and bantihed by the Bes: for thence they Drive the drousie Drone away. This Done is an ontimely birth, and an unperfect Bie, but very like unto the Bie, faue that he is bigger bodped, lying alwaies idle in the hine, not labouring himselfe, but fixing like a lubber on the sweate of his fellowes, yet ferneth he for the breding and bringing up of the young: which when he hath vone, they thaust him out of the hine. Varro appointeth the feafons for the taking out the hony: taking the the first at therifing of the seauen Starres: the second in Sums mer : the third at the fetting of the featien Starres : this figne is when the hines be heavie, and that they be double furnished. Pou may make your confedure by the Bos, when they make great noise within, and when you see them stand dauncing, and

playing

playing at their dozes, as also, if loking into the Dive, you perceine the mouthes of the Combs to be conered with a Honey filme. Dydimus thinketh it to be the belt time at the firft haruelt, the rifing of the feauen Starres, or the beginning of way : the fecond, the beginning of Autumne : the third, the fetting of the feauen Starres, inhich is about Dober : holubeit, thefe times. be not alwaies precisely to be observed, but according to the for, wardnesse of the season: for if so be you take the honey before the Combs be readie, they take it ill, and prefently leave working. The time for gelding, or driving your Bis, is earlie in the more ning : for you must not at none trouble your hiues. For this kinde of gelding of your hines, you must have two instruments. for the nonce, a fote and a halfe long and more : the one of them. must be a long knife of a god bredth, having at the end a bending croke to scrape withall : the other must be plaine, and bery harpe, that with the one you may cut the Combs, and with the other scrape them, and draw out whatsoener dregges or filth pou ande in them. And if your hines be not open behinde, you thall make a smoke with Galbanum, 02 dap dung, being put into an eare then pan made for the purpole, small at the one end, from whence the smoke thall come, and broad at the other, from which you thall blow up the smoke from the fire, in such fort, as Columella thewa eth pou. This pot you must luffer at the first, to imoke into the hive, and aftermard round about without, and fo thall you drive them. We that medicth in this cale with the Bes, muft specially Bees hate kepe himselfe from letcherte, and drunkennes, and walh himselfe thecues cleane: for they love to have such as come about them to be as and vnpure and cleane as may be. They delight in cleanlinelle fo much, fons. as they themselues doe remove from them all filthynesse, suffer ring no filth to remain amongst their labours, raking by in heaps together the excrements of their ofne bodies; which in the rainy dates, when they worke not abroad, they remoucand throw out of the hine. If you let Barlick by them, they will fing all that come niere them. Their anger is chiefely allwaged by the prefence of those that ble to tend them, at whose comming they ware milber, being well acquainted with those that are their kiepers. Af there be two fwarmes in one hine, and agreed together, they have two forts and manner of Combs, every fwarme observing niss

Combes.

his owne order, but all the Combes to hang by the roses of the hines and fides, as they touch not the ground lubere the 1800s ble chiefely to walke, as I said befoze of the building of their Fashioning Combes. The fashion of their Tombes, is alwates according to the fathion of their hines, sometimes square, sometimes round, fometimes long as the hines are, in which they are fathioned as in a mould. Plinic writeth, that there were Honey-Combes found in Germanie, of eight fote in length : but howfoeuer thep be, you must not take them all out, but must vie discretion in taking of them. Amongst our people in the first Be harucst (if I may so tearme it) they ble with their croked knife, to pare away no moze but the emptie Telles, till they come to those that be full, taking hiede that they hurt them not: and this they doe in the Spring. In the latter harnest, that is, at the end of Summer, they take the Combes fuil of Honey, in such sort, (as I told you) burning the old Bies, and alway kieping and preferring the young Iwarmes. In the first taking, when the Deddowes are full of flowers, they leave the fift part of the Combes behinde: in the latter haruest, suhen winter approcheth, they leave a third of their Combes for the suftenance of the Bie. But this quantitie cannot certainely be prescribed for all Countries, but must be measured according to the abundance, or mant of flowres. Dydimus Thascus, thinketh god to leave them a tenth of their Combes in the Summer time, if the Dives be very full, otherwise, according to the proportion: and if they be emptie, not to meddle with them. Plinie would not have the Honey of the Spring-time (which hee calleth flowie Honie) to be medled withall, but to be spared. De thers leave no Ponie at all for them, because of the abundance of flowees that are then springing, which is the chiefe foundation of their Combes. Such as be skissulest doe leaue the Bes a twelfth part of their labour: and this they do about thirty dates after the swarme, which they make an end of commonly in May. The old and the corrupt Combes, are for the most part at this time taken away: and the found, and fuch as are filled with Hos nie, left. In taking of the Ponie at the later time of the yeare, they vie to dectrop the oldest stocks, to faue the charges of fixe ding of them. This driving and gelding of Hives is not commonly bled in the Countrey, but they rather, according to their

cultomes

custome, at the end of the piere burne them, alledging for their authoritie an old English Proverbe of their owne:

Driue Bees, and loofe Bees: burne Bees, and haue Bees.

And in some places they drowne them. When you have thus spois led your Hines, you hall carry all your Combes into some hands come place, where you meane to make your honey, and stoppe by all the holes and creviffes of the walles and windowes, as close as you may: for the 18 es will be very bufic to recover the pray. Pour hines being thus drinen, if there be any ill placed Combes at the entrie, you thall alter them, and place them in god order, so as the toppes stand bowneward, so when you next geld them, you hall eallyer take out the olde Combes, and leave the new, and the ware hall be the newer: inhich the older it is, the worfe it is. Whenseever you take your Combes, loke that you traine out the Honey the same day, while they are het and new. The Ponie that you take at the full of the Pone (as Plinie faith) yelveth most, and the fagger the day is, the thicker it is. The Combes being taken out, let them rather be warme, then heated, least by over-heating them, you straine out the Ware with the Ponie: afterward, put them into a good frong bagge, and with a Presse, or other Instrument made for the purpose, 12 with a Wicker Basket, presse out the Honie; but lie that before pou preffe it, pou feuer from it luch Combes, as haue in them young Bees, called with some, Gaubbes, or any red or rustie deoffe: for thefe with their euill iupce corrupt the Honie. When the Ponie is thus Arained out, it is put into earthen bessells, and fuffered to trand bucovered a few dates, till it have wrought, and cast up alost all his Dregs, which you must often scumme off with a little flicke: but in many places they are not fo curious, but temble all together, and so sell it groffe as it is. The best Honis is alwayes in the bottome; as the best Dyle aloft, and the best wine in the midft.

CHENOBOSCVS. Withat Countries pielos the bett 1903

nte; and which count you the best?

MELLISSEVS. The best Honie was in the olde time The best thought to be in Athens, and in Cycill: it is now thought very god Honie. that commeth from Moscours, and the Posth-east Regions. The:

Three forts of Honny.

Bread corrupteth Heny.

The making of Waxe.

The Dony at the beginning is thin as water, and after the frais ning, it worketh like new Wine, and purgeth: at the twentieth day, it wareth thicke, and afterwards is covered with a thin rine, or filme, where the froth of the purging is gathered together. The best Dony, and least infected, the Bes doe gather from the leanes of the Die, the Lind tree, and the Rico. There is their forts of Dony, the best kinde is that which is called Authim, or flowie- Honie, made in the Spring time : the next, is Summer hony, or halfy-hony, made in thirtie dayes after the tenth of June, when the Dogge begins to come in : the third is Beath honp, a wilde kinde of hony, and not allowed, being gathered after the first thomas of Autumne, while the heath is floward: and therfore like the Sandy hony. The best hony (as Diophanes faith) is cleare, yellowith, finoth in touching, & fine, roping, if it be drawen in length, and long flicking together, clammy, and hard to be got a funder: the Dony that is of the work making, is to be bopled. Bzead, if it be dipped in it, doth ftraight rozrupt it, and therefore take heed you put it not where bread hath beine. The fragments, of the Coame that hath once bene preffed, being taken out, heated and frained againe, doe make a fecond Bony, which you must put bp, and kiepe by it felfe, for spoyling of the other. Paughtie, and counterfeit Bony is descerned by the burning, for ill hony burneth notcleare, as the laid Diophanes witnesseth. The dooffe that remaineth, after the preffing, after that you have diligently was thed it in floet water, muft be put in a braffe Caldron, and puts ting a little water thereto, melted upon the fire, which when you have done, you must traine the Ware through a Sine, or fuch like thing made of Straw, oz Kuthes: and after feth it againe, and polyzing it into some bestell with water, from whence you map easily take it, make it by in cakes, or what fashion you like. Plinic writeth, that the Coames must first be mathed well, and after. ward dayed in the darke, for the space of three dayes, a the fourth day let bpon the fire in a new earthen vestell, so as the Coames be conered with water, and then frained through a Sine: laft of all, boyled agains in the same bestell, and the same water, and polized into vellels with colde water, having their lides nointed with Bony. The Mare will be very white after it hath food in in the Sunne, and beene tivile fodden : you hall make it blacke

with

with the Athes of Paper, and being mingled with Termillion, it will be red, and so other wife coloured as you lift.

CHENEBOS. If in the making of your Hony your Bes be almost consumed, what wayes have you to repaire them?

MEL. Withen as an olde Mocke is come to be small, and that Bees deyou are to furnish out the number, you must bestroy (as I sayd) cayed. the new king in the Spring time, when there is a new brod in the Dive, that the new people without discord, may dwell with The repair their olde parents. And if fo be the Coames have not yelded a ring of new brod, you must take the dwellers of two or three other hines, them. # put them into one, but fo (as you remember befoze) to fpzinckle them with some sweet licour, and so that them by with food conuenient for them, till they befully acquainted, leaving but little breathing holes about the Dine, & kiepe them thus enclosed their Dapes. Dthers doe ble to kill the elder king, but that Columella alloweth not: but if the king be very old, (the age of Bis thall Mostly be theired buto you) and the people alwaies given to fedition, then thall you chose a king from the Pines, that have most number of kings. I told you before how you hould make them as gree, when you put two fwarms together, left they should destroy one another, that is, to take away the kings of the new Iwarmes.

CHENOBOS. What if the whole stocke be decayed by taking the Hony, or by sickenes, and diseases, will they breed againe?

oz may they be repayzed by art ?

Mel. Byboth, though the bræding, and ingendring of Bes Breeding is very doubtfull with Aristotle, neither dare he after his long dis of Bees. putations, affirme any certaintic thereof: sometime he reciteth the opinions of others, some thinking that they are ingendred by copulation, the Drone being the male, and the Be the semale: other saying, that they bring forth young, but doe not ingender, but that they gather their yong ones, but from whence, they know not. Some say, from the stowness of Marioram: some, from the sowness of the Uwese: others from the Dime slowres, because whensoever there is great plenty of Olives, there is also great swarmes of Bees. There are agains that thinke the Drones to be so gathered, and the Bees to be bred onely of the kings: and a little after, he saith, The young are the best bred, when the hony is made, they labour with their legs the Ware, and with their mouth

mouth they call out the Ponte into the Cels, and having late their poung, they fit open them as Wirds doe. The little Wome, 02 Brubbe , being thus hatchen while be is fmall , lyeth crampled by in the Coame: afterward, fyzawleth abroad by his owne force. and falleth to feeding, cleaning fo to the Coame, as he feemeth to be tied. The band of the Bee, and the Doone, is lubite, of which commeth little Wormes, that after groin to Bies, and Deones: thus much, and moze, faith Aristotle. In other places he would fame to gather, that the Bes are ingendeed of the kings, faping, that if this were not, there were no reason for such things as are committed in their government, and that the kings by good reafon, remaine still in the Dine without any transile, as only being for bræding. Befide, they begreater, as though their bodies were purposely framed for generation, they punish the Drones. It is not very likely that the children Mould punish the Parents. therefore the Bes are not ingendred of Drones. Befides, it is agreat argument, that Bies are ingendred without copulation. that their bewde lieth very finall at the first, waapped by in the holes or Celles of their Coames , whereas all other Flies and Mozmes that are bred by copulation, doe longingender, and quickly lay in greatneste, according to the kinde of the Morme. Plinie following herein Ariftotle, affirmeth, that Bies boe fit as Bennes doe bpon their Egges : and that which is hatched, is at the first a small white worme, lying croffe the hole, and cleaning in such fort, as it seineth to feede. The king is at the first, of a pellowill colour, as a cholen flowze, framed of the finel lubitance. neither is he bred a Morme, but with winges at the very first. The other common fort, when they begin to have fathion, are called Mimphes, as the Dones, the Sireus, and the Cepheus, whole heads, if any man chance to pull off, they ferue as a delicate for to the breders. After a little time, they powie into them fode. and at boon them (making a great noise, as it is thought, to procure a heat necessary for their hatching) till breaking a sunder the filmes that encloseth enery one of them like an Egge, the whole bewde commeth forth. Plinic addeth, that this was fiene and obferued at Rome, in a Dine made of Lanterne homes: the whole brode is finished in five and fourtie daies. As some as they are brought out, they are taught to trauaile Araightwayes with their Dammes.

dammes, the young people waiting presently byon their young king. There are funday kings baed for failing, and when they come to age, by common confent, the foulest and untowardest of them are deferoped. That there is two forts, and what fallion they be of, 3 told you before.

CHENOBOS. Let us now heare some thing of their age. The age MELLIS. Their age (they fay) may thus be knowen. Such of Bees. as arenot aboue a piece olde, doe thine, and loke as they were newly opled : the old ones be rough, thanhaped, weinckled, loathe fome, sill fanozed to loke byon, howbeit, for making of Coames, thefe are the best. Anitotle in his boke befoze mentioned affire meth, that Bes live fire or feauen pieres, and that if a focke continue nine oz tenne pieres, the kieper of them hath good lucke. Plinie waiteth, that one Bocke was never feene to continue aboue ten pieces, not though you supply the places of the bead cuery peers with new : for commonly in the tenth were after the first having, the whole Cocke dieth. And therefore to avoide the mifchiefe of being biterly destitute, it is god to encrease the number of pour Bines with nelvowarmes energ piere. And if lo be your Bes, through Indden Coame, tempett, or cold, lie dead bpon the Bees that ground, you muft gather them together into a platter,og a broad be dead. bason, and lay them in your house toward the South specially if the meather be god, after, cast amongst them Albes of fittge tris (noo, being fomething moze bot, then warme, wake them erently by and downe, fo as you touch them not with your hands. and fo fetting them into the Sunne, they will (as Varro farth) nutchen againe. To whom Columella subscribing acceth, that fuch Bies as you finde dead boder your hines, if you lay them by in a dap place all the Wlinter, and bring them out into the Sunne in the Spring, when the weather is faire, and sprinckle them with the forelaid Athes, they will recover within afely houses. They thatliff, may prome it. I have not hitherto tried it. Marcus Varro holdeti opinion, that Bos are ingenderd fornetime of other Making Bees, and sometimes of the body of a yong Bullocke putrified, of Bees. reciting this Opigramme of Archelaus.

Of Steere that Strangled is are children Strangely bred, Of Horse ingendred is the Waspe, and Bee, of Bullockedead. The Horses breed the Waspes, the Bullockes breed the Bees.

#### I he fourth booke,

For a young Dre, or Stere, being strangled, corrupted, and cast into some such place, where the putrified vapour can not breath out, and store of heards and slowres, agreing with the nature of the Besthrust into the body, as Time, Cassia, and such like, wherewith the vapour may be tempered, you shal hereof quickely have Bes, even as you may of the body of a horse likewise ordered, have Waspes and Pornets. Virgill hath described both the manners of ingendring of Bes, and the first sort, in these words.

This vie, you wonder would, doth please the Bee,
The Chaines unchast of Venus they detest:
To file themselves with filthic lechery
They judge unmeet, nor will be so increast.
But from the plants and pleasant flowres sweet,
They fetch their tender brood, and hence they get:
Both King and Court, and whatsoever's meet
To raise their walles, and Empyre up to set.

The other manners, or repairing of Bes by art, the same Poet

eloquently thus touched.

But if your Bees doe happen all to die,
The breeders gone, that should their race renew:
His lesson learne, vvhose skilfull cunning hie,
Made Bees, vvith bloud of Bullockes that he slew,&c.

Bees made of a Steere.

The manner how Bes are ingendzed of a Bullobke, Virgill both largely discourse out of Mago, and Demberitus. Dou must frame a little house fouresquare, about ten cubits in breoth, & as much in height, with foure windowes, on every fide one. A pong fat Stere being brought bp hither, his Role, his Bares, and all other open bents Aopped, & filled with linnen, dipped in Ditch, must be beaten with numbers of clubbes to death, fo as both the bones and the field, may be broken without any blod: for of the blod commeth the Bie. Afterward, the house being depe frawed with Time, and the Bullocke laid bpon his backe, the dozes and the windowes must be close thut by, and so plaistered, as there can no aire enter. Their wickes after, the windowes must be opened on enery five, faue where the winde bloweth ftrongest, and the light and the aire let in: when it hath bene well coled a refreshed, the windows muft be thut by againe, and made as close as before: and being opened the eleventh day after, you thall finde the house

full

full of Bées, and nothing left of the Dre, laue the hornes, the hapze, and the bones : they hold opinion belides, that the Kings are engenozed of the braine, and the other Wes of the body.

PVLLARIVS. I like not fo coffly comming by Bies.

MEL. Df the fame opinion is Columcila: I tel pou but the oaber of the old skilfull fellows, you may chose whether you will try it.

CHENOBOS. I had rather you would tell be what fickness fes and difeates they are subject to, and how we may know the

fickneffes, and in what fort to helpe them.

MELISSEVS. I will willingly thew you. The fignes and Signes of tokens of their health, as if they be lively, quicke, and many in ficknesse number : if their workmanthip be neatly and equally wrought : if they goe about their bufineffe cherefully, and if they loke faire and smothe. The signes of their not being in health, is, if they loke loathsomely, be rough and hayrie, except in the time of their labour, when they commonly loke like labourers, or be drowfie, or if you fee them carrying out of dead carhaffes, and following the corles, after the manner of mourners, or that you heare no nople, noz Airring amongst them. Thele fignes when you fee, Columella willeth you to give them meate in little troughes of Miedes, specially Bonie sodden, and ground with Balles, 02 1800 fes. Dou muft alfo to heale them, perfume them with Galbanum, Realins, or old frigges of Grapes. If the King happen to ope, the common people waile and mourne with great heavineffe, neither will they make any provision for their owne sustenance: and therefore if you fiede them not, they will family themselves.

PISSINARIVS. With what diseases are they most bered ? MELIS. They are many times infected with the Destilence, The difesagainst which you have no other remedie, then to sever the hines ses of Bees, farre alunder. Their chiefest and early sicknes, is in the beginning and the of the spring, when the Spurge and the Elme doe both flowre: for as boon new fruits, fo at their first comming abroad, entiled with these new flowers, being almost hunger staruen with the winter pasted, they fied so greedily as they fall into a flir, whereof if they be not quickly remedied, they die. For Spurge both lose the bellies of all other creatures, but the flowers of Elme bringeth onely the Flire to the Be. And therefore in such Couns tries, where there is great plentie of thefe tries, the bies continue

but

but a while. Columella teacheth you again this difeale, to give them Rolemary fooden with water and Donie: fome againe ble to give them the fale of men, or Bullocks: as also the graines of the Domegranate beaten, and fpzinckled with Wine oz Reafins. with the like quantitie of Danna kneaded together, & given them in tharpe wine, bopled in an earthen bellell, and powzed into little Redes. Virgill Describeth an hearbe, called Aumellus, with a pellow ftalke, and a purple flowe, the tuyce of whole rote being fod ben in old Wine, and frained out, is bery goo to be given them. Columella out of Higimus, teacheth to remedy them in this fort: First, to take out all the rotten and corrupt Combes, and to give them fresh meate, after to perfume them with smoke. It is and alfo to put to a decayed hine, a nelu (warme, as I faid befoze. Das nie times they die of a difease which they call. The great deuouring, which hapneth when they have made fo much ware, as they thinke they halbe able to fill, and afterwards, by forme and tems pell, many of them be deltroped, so that the remaine sufficeth not to fill the Combes, whereby the emptic parts of the Combes bes commeth rotten, and so by little and little infecteth both the honie and the Bes: For which the onely remedie is, either to put in a new (warme to fill by the cells, oz if you have no luch fluarms, to cut away part of the Combes before they come to be naught, which you must doe with a very tharpe knife, for feare of difplas cing the rest of the Combs. A cause beside many times of the death of the Bos, is their tw much prosperitic, as when there are di uers pieres great abundance of flowers, & the Wes fo buffe in their fixding, that they forget their brieding, toho over wearping themselves with travaile, they bic, not leaving any baode behinds them. It is called Blapfigonia, when either by fickneffe, flothfuls nes, 02 barrennelle, they leave no fruit behinde them. To remedy this: It is god enery third day, to thut un the hines close, leaving but very small holes, out of which they cannot craye, so shall they be forced to lake to their brade, when as they cannot other wife range abroad. Pany times befides they are the cause of their swine beaths, when perceining their Ponie to goe away, they fiede to grædilie. Their owne honie both also many times de Groy thens: for being touched with it on the backe, they are so limed, as they cannot firre: and Dyle both not onely kill Bes, but also all other

other like creatures, Flyes, and Mozmes. They hate all file thie favours, and King such as smell of Dyntments: they are of ten belieged with Maspes, Hoznets, and great Gnattes : the Swallow both oftentimes spoyle them: the Modpecker doth with his long tongue, thauft into the hine, licke by their honie: and diners other Birds (as I have faid befoze) annop them. The Tode bloweth them, and sucketh them by at their owne dozes. who fultaines no hurt by their Kinging. Shope are also hurtfull and troublesome to Bies, in whose Flices they tangle theme felues, as they can hardly get out. In the waste woods of Sarma- To keepe tia, where they make their Combes in the hollow Firre træs, Becs from the 15 eare, for the defire of the Ponie, climeth bp to them, and Beares. robbeth them. Against these Beares, the Be-kepers vie to hang befoze their hines great Paules, and Betles, which the moze and gerlie the Beare houeth aside, with the greater sway they come upon his head againe, whereby the Bes are well defended. The fanour of Creutiles, if any man boyle them nære to them, both kill the Bas. The Ecco is also a great enemie to them, that with her resounding, both Chake and feare them : and hurtfull to them is also the Diff. The Spider is also their deadly foe, and where they can prevaile, make hauocke of the hines, fetting their webs and nets in enery comer, to overthrow the pore Be. The night Butterflie, that flyeth about the canole, is hurtfull to them two wates: for they both consume the Combes, and of their ercres ments left behinde them, is ingendeed Pothes: in the very wood beside, bzedeth a Wozme that consumeth the Ware. These burtfull Mermine, the carefull Besper mul diligenty labour to destroy and prevent, and loke that he plucke by all fuch bulles and plants as offendeth them, not suffering any such to grow nere them, and to keepe all hurtfull Cattell from them, letting them alwaies have such things at hand, as they most belight in. For the Reper hath worke enough to turne him to all the viere long : for after the twelfth of Parch their Dines muft be opened Hines purand loked buto, that all the rubbith, and filth of the Whinter may ged in the be fwept away, and the Spidersthat spoyle the Combes plucked Spring. out, and that they may be imoked with imoke made of Dre bung, or linnen (as 3 spake of before:) for smoke is of nature profitable Smoke to the Bes. And though it be troublesome for the time to them, good for pet

Bees.

pet it is certainely very wholsome for them. The Wormes, bes fides Pothes, and Butterflyes, muft be killed, which cleaning like a pestilence to the Combes, doe fall away if you mingle with your dung the marrow of the Dre, and laying it bpon the coales, make your finoke : with this order thall your fwarines be kept Will in health, and shall be better able to abide their labour : this kinde of purging them must be often bled, from the Balends of Aprill, till the fall of the leafe. The Beper muft kepe himfelte (as I faid befoze) cleane from dunkennes, letcherie, and all bucleane and firong favouring fents: for they love to be purely and faiths fully laked buto (as hath bene often faid.) About an eight and foztie daies after the entring of the Sunne into Aries, they begin to Swarme, and at the same time do many focks perish, that have few and dilealed Bies. About the same time are beed in the outermoff part of the Combes a bemde of a great bignes : which some count to be the Kings: others call them Bies, because they course and chafe the Bes, and therfore thinke it god to deftrop them. From the rifing of the feauen Starres, that is, from the fift Joes of Times for Day, till the tenth, oz the twelfth of June, they ble to call their swarming. Swarmes: at which seasons they must be carefully loked buto for going away: from that time, till the rifing of the Dog, or the

Ocfti.

comming in of the Dog daies, which is almost thirty daies, (as Columella faith) the harueft is both for Honie and Corne.

In what fort the hines are to be driven and geloed, it is thewed before: but at this time, and till the twelfth of September, the hines must be opened enery tenth day, a smoked. The hines being thus smoked, you must refresh the Bes, with sprinckling and car Aing into the emptie parts of their hines, very freily and cold was ter: and if any thing remaine, not walhed away, you must sweepe it out with a Gole wing. Belives, the Pothes, if they appeare, must be sineped away, and the Buttersties killed, which divelling in the hines, are commonly a bane to the Bes: for they both eate bp the Ware, and with their dung doe breede a kinde of Worme To destroy that they call Dine mothes. These Butterflies, as Columella teas

Butterflies. cheth, you may when the Wallow flowzeth (at which time there is greatest number of them) destrop in this fort. Doumust have a bestell of braste, very high and Araight, narrow necked and mouthed, in the bottome whereof you must have a light, and fet it in

the evening niere buto your hives, and you thall lie all the But. terflies Araightwaies fall to the light, and while they play about the flame, they burne themselves, while they can neither get by, by reason of the Araightnes, not thun the fire, by meanes of the brafen walles. Betwirt the rifing of the Dog, and of the Bearce ward, which are almost fiftie baies, you must take good heed pour Besbe not spoyled by Doznets, which at that time lie in waight for them, even at their owne dozes. After the rifing of the Wear ward, about the twelfth, or fourteenth of September, is the fecond harvelt of your Dony: from that time, till the letting of the leaven Carres, which is about fortie dayes, the Bos do prouide for their winter fore, of the flowres of Weath, Tamarifke, and other buthes and thrubs, of which provision you must take nothing, left pou discourage them, & drive them away: from the setting of the feauen fars (which is about the entrance of Donember) the be Not flurainning (if we may believe Plinic ) of winter. The Bes line all the ring of winter long upon such Koze of Pony as they have lato up: at this Becs in Winter. time, the Dives muft be opened & cleanfed of what focuer filth is in them, and diligently ordred, for during the winter time, your Dives muft neither be opened nog firred, and therefore in the end of Summer, while the weather is yet milde and temperate vour Dines being made cleane in some sunny day, see that you thrust buder them certaine close couers that may reach to the bery bots tome of the Coames, not leaving any boide space, whereby the Dive Mall be the warmer. When you have this done, close by e. nery rift and open place with Clay, and Bullockes bung mingled together, dawbing it all over without, leaving onely a little hole to come in and out at. You must arme them also against the colo tempest, with god covertures of Straw and Boughs. Some ble to put in the Dives small Birds being drawen, which with their feathers keepe the Bies warme all the Minter, and therewith. if they happen to lacke foo, they feed themselues sufficiently. Dea. it hath bene fene they have to fed bpon them, as they have left nothing but the bare bones : howbeit, as long as their Hony ful ficeth, they never meddle with the birds. It is very god and ne ceffary (as 3 told you before) to let them meat in little Troughs or Kedes, to defend themselues against famine. Tahen Winter is past, in the space of forty dayes, they make an end of all their Z 3

Donv.

Honse, except their kæper deale the moze liberally with them. It hath often also bæne sæne, that their Combes being emptie, they have continued fasting, till the Ides of Februarie, and cleasuing to the Combes, as if they were dead, yet have retayned their life: but least they should lose it altogether, it is god to powze them in some sweete liquours by little pipes, whereby they may sustaine their lines, till the Swallow with her appearing, promise a welcomer season.

After which time, when the weather will suffer them, they be gin to sieke abroad for themselves: for after the Sunne is in the Aquinoctiall, they never rest but travell painefully enery day,

and gather flowers, and necestaries for their breding.

Befides, because feto places are so fruitfull, as to peld flowers both Summer and Minter: therefore in fuch places, where after the Spring and Summer (at which times, both Beanes, Rapes, Williows, and other plants and hearbs, in enery place do flowie) the flowers doe faple, they are carried of biners (and that in the night, as I told you before) into such places, whereas there is god ftoze of late flowzing hearbs, as Time, Wilbe Parierum, and Sauerie, wher with they may be fed, and gather food at their pleasure : and as Columella writeth, that Bes in the oldetime. were brought from the fields of Achaia, to the pastures of Athens, and so transported in diners other places. So may we with be carry them from places where the flowers be confumed in the Spring, to the Summer flowres, as Clouer, and fuch other : and after that, about the end of the Summer, to places furnished with Death, Wamarifke, and fuch other late bearing flowers. For the anoyding of this inconvenience of carrying from place to place, 3 will thew you in what fort I have ordred my Bie pard at home. And because Batter Hersbach hath the wed you before in bis Bare ben many god hearbes, and pet not whereto thep ferue, I will them you a few plants, that I have fet about my Bes, feruing both for their commoditie, and the health of my houshold: I have cholen of a great number, luch as be most necestarie, cof greatest bertue: whose speciall vertues, and wonderfull workings, given onely by the most gratious and bountifull framer of the world, and being as it were sucked and drawne out by the carefull tople and diligence of the 15 ie, mult niedes adde a greater perfection to

their

their honie and their ware. I have first enclosed the Pard where my Bes Cand, with a Duicklet-hedge made of Wlack-thorne and Pony-luckle: the one of them leruing the Be with his flowers at the beginning of the Spring; and the other at the latter end of Summer. The first, the Black-thome beareth a pleasant white Blackeflowie, so much the welcomer to the Bie, as it is the very farce thorne. well of the winter: for he commonly flowseth not till the winter be paft. Thefe flotoges newly gathered & flæped all anight in the best and strongest wine, and afterwards distilled in Balneo Marie, being daunke, helpeth any paine in the fides, as hath beene certains lie proued. Tragus the Bermane confesseth, that with this onely water he hath cured all maner of paines about the Romack, heart, or ades. Wine made of the Sloe, and preferued butill Julie, or August, when the bloudy Flir most raigneth, is a soueraigne mes Dicine against it. The other, the Bony-luckle, or the Modbine, Woodbine beginneth to flowze in Inne, & continueth with a palling fwet fas uour, till the very latter end of fummer. The water thereof diftils led and brunk, tino or three daies together at times, affinageth the heate of the Comacke, helpeth the Cough, and Moztnes of breath. Hage of linnen bipped therein, and applyed, doe heale any heate of the Cies, of Liver. Pert onto my hines, I have planted the (weet hearbe Melitla oz Apiastrum, called in Englith, Balme, with a Balme. fquare falke, a leafe like a finoth pettle, and a yellow flowie, and groweth almost in enery hedge, an hearbe well knowne to the old women in the Countrie, and greatly defired of the 15 &. This Melitfa, oz Balme, fodden in white Wine, and brunke two oz thee mornings together, purgeth the breff, helps the Mort-winded, comforteth the heart, driveth away the dumpith heavineffe, that procedeth of Welancholy, helpeth the Falling-ficknesse, and almost all other difeafes: being chopped small, and freped a night in goo white wine, and afterwards diffilled, is greatly commended, not onely in delivering Momen from their pangs and griefes of the Mother, being dunke to the quantitie of thee or foure Spones fulls, but also cureth the paines or fainting of the heart, called commonly, The passion of the heart. Cardanus greatly commenbeth this hearbe, for the comforting and renuing of a decayed mes mozp: and affirmeth, that it is a caufer of fivete & plefant liepes. Dert buto this have I growing that finete and mecious hearbe, Angellica,

Angellica, whose seedes 3 first received from that bertuous and

godty Lady, the Lady Golding in Kent, a Gentle woman that fets teth her tuhole felicitie in the feare and feruice of the Almightie: this Wearbe is in flowee, feed, leafe, stalke, and lauour, folike bus to Louage, as they may hardly be discerned the one from the or ther, the leafe both in a manner resemble the Figge leafe, saving

Angelliea.

that it is more tagged, and indented round about. If any man be suddenly infected with the petfilence, feuer, or immoderate sweat, let him take of the rmt of this Angellica in pouder, halfe a dram. and putting to it a dramme of Treacle, mingle them together

For want of Treacle, you may take

with their or foure sponefuls of the water diffilled of the faid rot, and after he hath dunke it let him lie and flocat, falling for the the whole space of the houres at the least: this doing, by the helpe of God, he thall essape the danger: the rote freped in Ulinegar, and finelt buto, and the same Uinegar some times dunke fafting, both preferue a man from the pestilence: to be Most, theret and the was ter thereof, is foueraigne against all inward diseases, it scowzeth away the collections of a Plurifie beginning, helpeth Alcered and corrupted Lungs, and is god against the Chollicke, Strane gurie, and reftraint of Womens Burgations, and for any in ward fivelling, or inflamation, the tupce thrust into a hollow toth, allivageth the paine, the water dropped into the eare, both the like: the layd inyce and water put into the eye, quickeneth the fight, and taketh away the thin fkinnes and rines that cours reth the eye. Wesides, a most present remedy in all depe and rota ten fores, is the inpee, the water or the powder: for it clenfeth them, and conereth the bone with god fleth. It was called in the old time Panacea, og Healeal. Pert buto this Angellica, haue 3 grolving in great plentie, Cardus Benedictus, oz bleffed Thiffle, which the Empirickes, or common Proalifers, do commend for fund day and great bertues, affirming that it was first sent out of India, to Fredericke the Emperoz, foz the great bertue it had againft the Deadach, oz Degrime, being eaten oz dzunken. Likelnife, thep fav, it helpeth against the daying, or giddinesse of the head, maketh a good memorie, and restoreth the hearing. For the profeof his great force against poplon, they bring forth a young matden of Pauy, that having bulwares eaten of a poploned Apple, and therewithall so swollen, as no Treacle, or medicine could

Cardus Benedi-Ltus.

cure her, was at the last restozed to health, by the distilled water of this Thickle: and like wife that a boy, into whose mouth as he sept in the field, happened an Adder to creepe, was laned by the drinks ing of this water, the Adder creeping ont behinde, without any hurt to the childe. In fine they affirme, that the leaues, iuyce, fied, and water, healeth all kinde of poplons, and that the water hath healed a woman, whose brest was eaten with a Canker to the bes rp ribbes. I have also set into this little piece of ground, great Roze of the hearbe called Namularia, 02 Penigraffe, which cras Penigraffe peth close by the ground, having bpon a long firing little round leaves, Canding directly one against the other, and a yellow flowie, like the Croe-fot. It is a soueraigne hearbe for heas ling of wounds, not onely outward and graine wounds, but also inward fores and bleers, specially of the Lungs, whereof there hath beene god profe. Tragus affirmeth, that he hath feene dangerous and desperate wounds cured with this hearbe, being bois led with Hony and Wine, and danke. It healeth crulcerations of the Break and Lungs, and may be well given to those that Cough, and are thost breathed, and to little children diseased with the drie Cough, who by reason of their tender age may take no Aronger medicine. I have feine god plentie of it growing by the hadowie ditches, about great-Peckam in Bent. I have bes five there growing, Scabious, an hearbe that groweth common, Scabious. ly in Corne, with a tagged leafe, lying round bpon the ground, and thrulling out in Summer a long falke, with fundry branches, the flowze growing in blew knobs, or tuftes, like hony Combes. This hearbe being fodden with Wine, and dunke, doth helpe the Plurifie, against which oiseases, the women of the countrep, that many times take bpon them to be great Doctrelles in Phis ficke, do ftill the water thereof in Day, and give it to be daunken at each time, two or there sponfuls, not onely against the Pluris he, but against inward imposternes, coughes, and all discases of the breatt. Against imposternes, divers (as Tragus writeth) boe make this composition, they take a handfull of Scabious, the hearbe dated, of Liqueriffe cut small an ounce, twelve Figges, Fenell feed an ounce, Anifeed as much, Daas halfe an ounce, these they lay a night in water: the next day they boile them, till a third part be consumed, and after making it sweet with Suger,

by Ponie of Roles, they give it warme in the Poining and Euce ning, where with they say, the imposterne is ripenco, made soft, and coughed out.

PVLLARIVS. I remember, that pallage by the house of that Honourable Baron, the Lozd Cobham (whose house you thall seldome see without great resort, by reason of his noble oil position, and honourable intertainement that hee giveth to all commers) I chanced to see in his Parke at Cobham, a certaine

Veronica. hearbe called Veronica, whereof I have heard bertues.

MELLISSEVS. That can Hallo thew you among & the hearbes that I have about my Bes : it is called of some Feucriuum, and Veronica, as it is suppoled of a certaine French lking, who was thought by the ingce thereof, to be cured of a great Les profie, it is called in English Fluellin : it cræpeth low by the ground, as Penigrade doth, and beareth a leafe like the Blacke, thorne with a blewith speckled flowre, with a sad inclosed in little powches, like a thepheards purle, and groweth commonly bnder Dkes, D. Hieron watteth, that the force thereof, is maruellous against the Pestilence, and contagious ayzes, and that he hims felfe hath oftentimes proued. The water of the hearbe freped in white Wine and distilled, there withall be hath cured funday times, hot burning and pestilent Feauers, as well in young men, as in old, Hieron Transchweyg, commended it to be fingue ler god for all difeates of the Spliene: the thepheares of Germas nie give it with great profit made in powder, and mingled with Salt, to their Cattell diseased with the Lough : being freped in Wine and diffilled, it is a most present remedie in all pestio lent Feauers : being given two ounces thereof with a little Treacle, and after laid warme in bed, and well conered, it expels leththe poison by sweat, and desineth it from the heart. The was ter of this hearbe taken certaine dates together, two ounces at a time, helpeth the turn-licke giddinesse of the head, bosdeth fleame, purgeth bloud, warmeth the Comacke, openeth the Cope ping of the Liner, healeth the diseases of the Lungs, and the Splæne, purgeth the Maines, the Patrice, and the Bladder, it defueth out sweat and benome, helpeth the Jandise, the stone of the Reines, and other grienous diseases. Pon Chall also have among these plants of mine, the god sweet hearbe Cariphilata,

or of some Benedicta: of others, Sanamanda, called in English Auens, whose roote whether it be græne, og old, resembleth the Cloue in lauour : the leafe is tagged, rough, of a barkith greene, and not much bulike to Agrimony : the flowie is pellow, and after the falling thereof, leaneth a prickly knoppe like a Beoges hogge : the rote the longer it hath growen, the lieter it is : the specialt ble of this rate in some countries, is to be put in Wine in the Spring-time: for it maketh the Wine to talke and fauour very pleasantly: which Teline, as many holo opinion, both glad the heart, openeth the obstruction of the Liver, and healeth the Comacke that is overburdened with cold and groffe humours: this rote boiled in Mine and ginen warme, both ceale the griefe of the Comacks, or the belly, proceeding of eyther cold, or winde. Dard by this hearbe , have I planted the great water Berony, called of some Ocimastrum, of Mathiolus, Scrophularia Maior: it hath a great square falke, & bigge leafeindented round about: the flowie is in colour Purple, and in fathion like the thell of a Snaile : it flowseth in June and July, and groweth most by waters in syadowie places. Tragus teacheth to make a speciall opntment thereof, feruing against all Scabbes and Sozes, where with he latth, he hath læne people lo mangie, as they have læmed euen Lepers to be cured : his oyntment is this, Take the hearbe, rotes, and all, gathered in Pay, washed and well cleanfed from all filth, ftamps it, and ftraine out the inpre, and keepe it in a narrow mouthed Glatte well Kopped, wherein you may kope it a whole peere, and whenfoeuer you lift to make your opntment, take of the same inyce, of Mare, and Dyle, of each a like quantity. and bople them together bpon a Chafindilh of coles, fireing them well, till they be incorporated, and so ble it. Mathiolus teacheth to make a fingular oyntment thereof against thernels, the things eufli, and the Hemerodes: his order is this. You must gather the rotes in the end of Summer, and after that you have made them very cleane, Camp them together with fresh Butter, and putting them into an earthen vedellclose conesed, set them by in fome moult and dampith place, fuffering it there to remaine for the space of fifteene dayes : afterwards, let the same Butter be melted with a foft fire, and being well strained, lay it by for your ble. There have I also another excellent hearbe, called

Cardiaca. called in Latine Cardiaca, I know no name for it in English, ercept you will call it Pother-wort: and indeed it is the very true Pother-wort it groweth by high wates, and neere to stone wals, it hath a lease something like a Pettle, but more indented, the leaves next to the rote being tagged like the Croe-sote: it growerth bushing with many stalkes, I have some it plentifully in Surry, and some store of it about Paidstone in Kent: it is of great force against any sicknesse of the heart, whereof it taketh his name: it helpeth Crampes, and Palsies, it cleanseth the break from seame, it killeth Mormes in the bodie, openeth cold obstructions, pronoketh vrine, and Momens courses: being made in powder, and a sponefull of it given in Wine, it wondersully helpeth the hard labours of Momen.

Betonie,

CHENOBOSCVS. I Peruaile pour haue no stoze of Betony also: foz I haue sæne the Bæs labour viligently bpon it.

and have heard, that it is of great bertue.

MELLISSEVS. I have great Stoze indeed of it, but that I forgatto tell pon of it, it is knowen fo commonly, as I neede not to descrie it buto you: whosoever is troubled with breaking of winde, and weakeneffe of fromacke, and those whose fromacks retaine not their meate, oz wholoener feeles lower belching from thier Comacks, and is therewith often troubled, let them continue ally ble Becony, epther the hearbe of flower bopled in Wine, 02 the water distilled, or the Conserve (as they call it ) of the flowers. And if so be you lacke the Conserve, or the mater, you map ble the drie hearbe in powder, epther by it lelfe, or with hony: women that are troubled with the Wother, may ble this hearbe for their remedie. To be thort, the flower, leafe, and rote of Betony fodden and daunke, og howfoeuer you will, in Cleduas rie, Conferue, Sirop, Pocion, oz Powder, as you lift to take it, is lingular good in the dileales of the Stomacke, Liner, Spleene, laidnies, and Bladder, it frieth the Patrice from obstruction, and draweth from thence all hurtfull moissures. For consumptions of the Lungs, Coughes, Dopfies, continuall and putrified feuers, proceeding from the Stomacke, boile the leaves and flowers of Betony in homed water, and you shall have present helpe. Thus have I thewed you what kinde of hearbes I have planted about my Bees, to the end they hould have fode at hand of

the switch, and the wholesomest: I have thewed you also the vertues of the hearbe, the flowie, and the water, that you may ble it for your ofone commoditie: only this warning I give you, that you doe not distill them, as the bulkilfull doe, in Stilles of Lead, Tinne, and Bratte, which poiloneth and spoileth the water, but in Blade Stils , fet in fome bellell of water bpon the fire, whereby your water shall be most perfect and wholesome. The difference of these two distillings, appeareth plaine: for erample, in Mozmewad, which if you diftil in your common Stillatozies, the water commeth out fivet, having gotten a corrupt qualitie by the nature and corruption of the Mettall: inhereas, if you doe it in Stils made of Blaffe, loking that the Blaffes be well clofed round about, your water hall have the very tafte, favour, and propertie of the Hearbe. Mith thefe Blatte Stils you may fo ozder pour fire, as you may draw out of every hearbe, the Water, Spirit, Dyle, and Salt, to the great comfort of ficke and difealed perfons. I fet belides great plenty of Sauozp, Death, Tamarifte, and without the Bepard, Brome, in whole flowers the Be much delighteth. I kæpe pou hære peraduenture to long in so fmall a matter.

Small is the thing, yet fmall is not the gaine.

If gratious Gods permit, and Phæbus not distaine. As the Heathen Poet writeth: but I will here make an end of my talke, that hath perhaps bene thought tw long.

FINIS.

Soli Deo gloria.

Contraction of the second

# Olde English Rules, for

purchasing Land.

Who so will be wife in purchasing, Let him consider these points following.

Eirst, see that the Land be cleare, In title of the feller.

And that it stand in danger

Of no womans Dowrie.

See whether the Tenure be bond or free,

Andrelease of euery feoffee.

See that the seller be of age,

And that it lie not in morgage,

VVhether a taile be thereof found,

And whether it stand in statute bound.

Consider what seruice longeth thereto,

And what quitrent thereout must goe.

And if it be come of a wedded woman,

Thinkethouthen on couert baron,

And if thou may in any wife,

Make thy Charter with warrantise.

To thee, thine heyres, assignes also, Thus should a wise purchaser doe.



