Natural and political observations mentioned in a following index, and made upon the Bills of mortality / By John Graunt ... With reference to the government, religion, trade, growth, ayre, diseases, and the several changes of the said city [London] [Sometimes ascribed to Sir W. Petty].

Contributors

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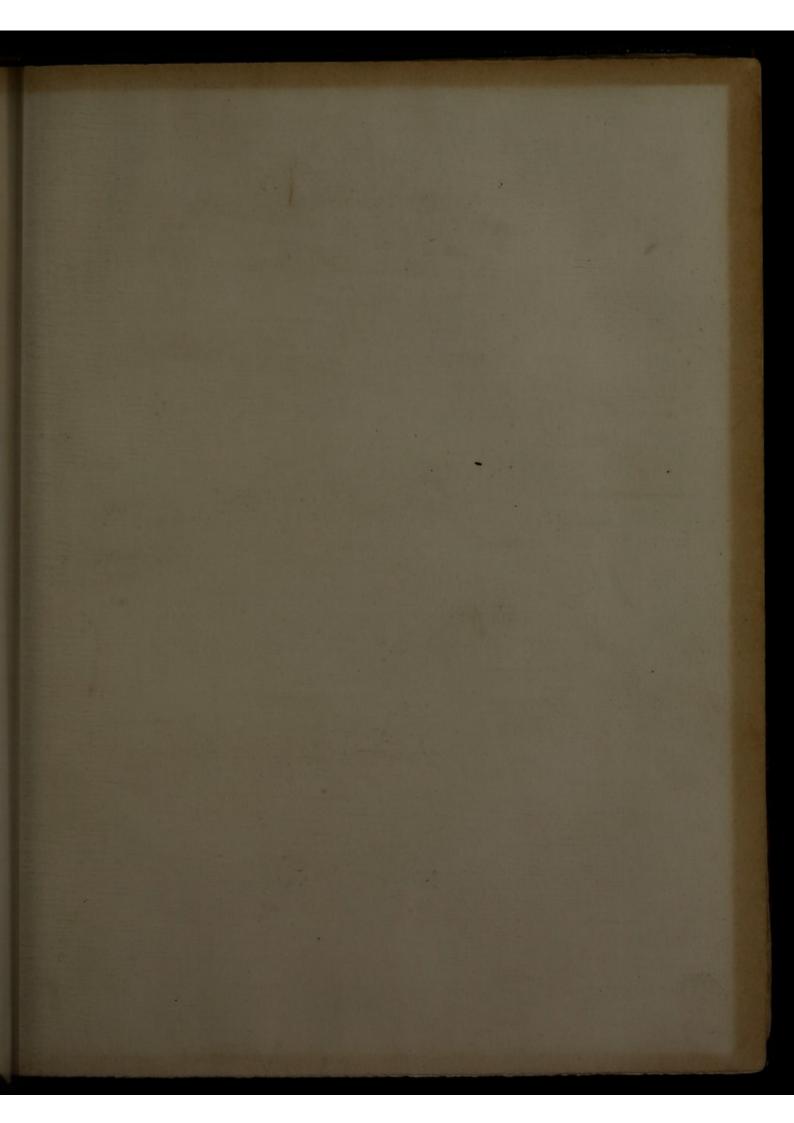


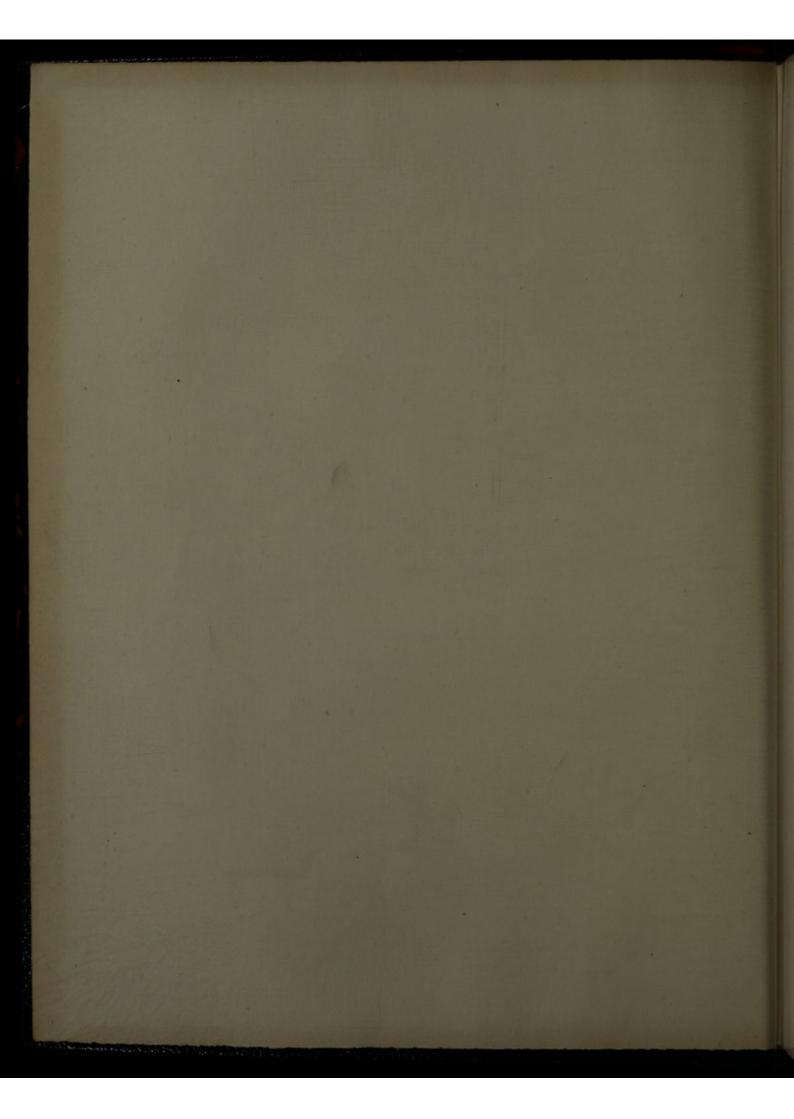
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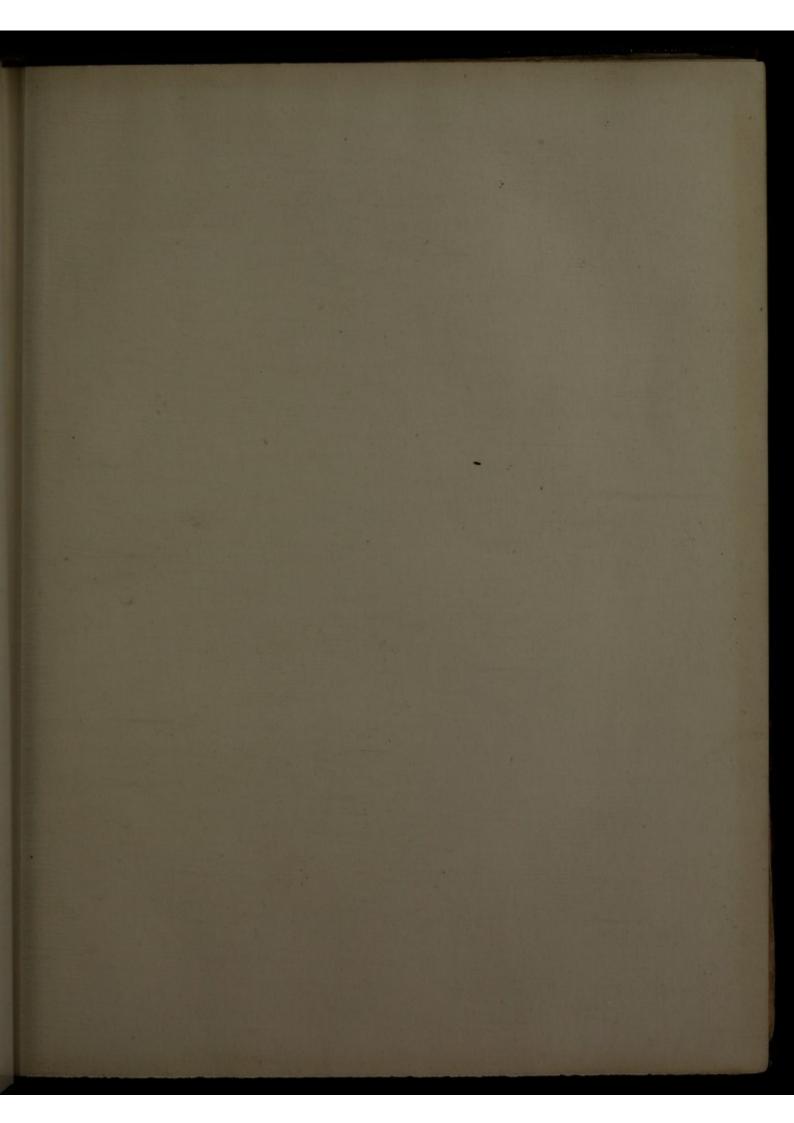


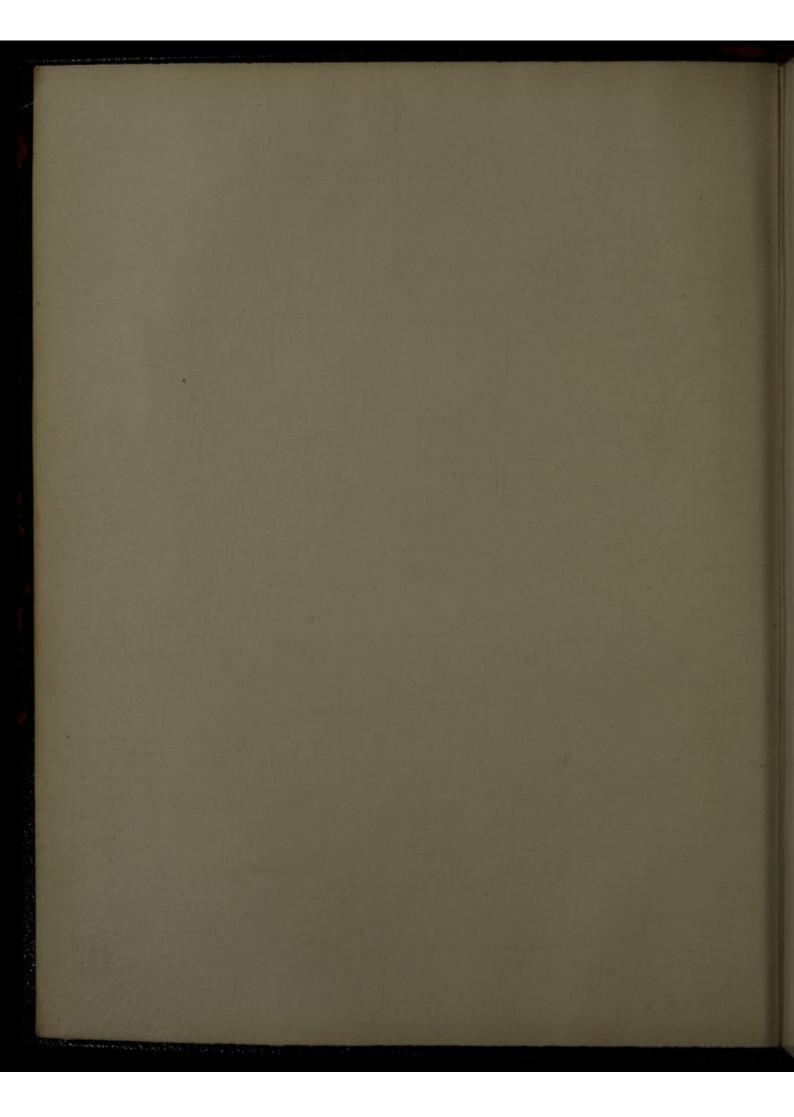
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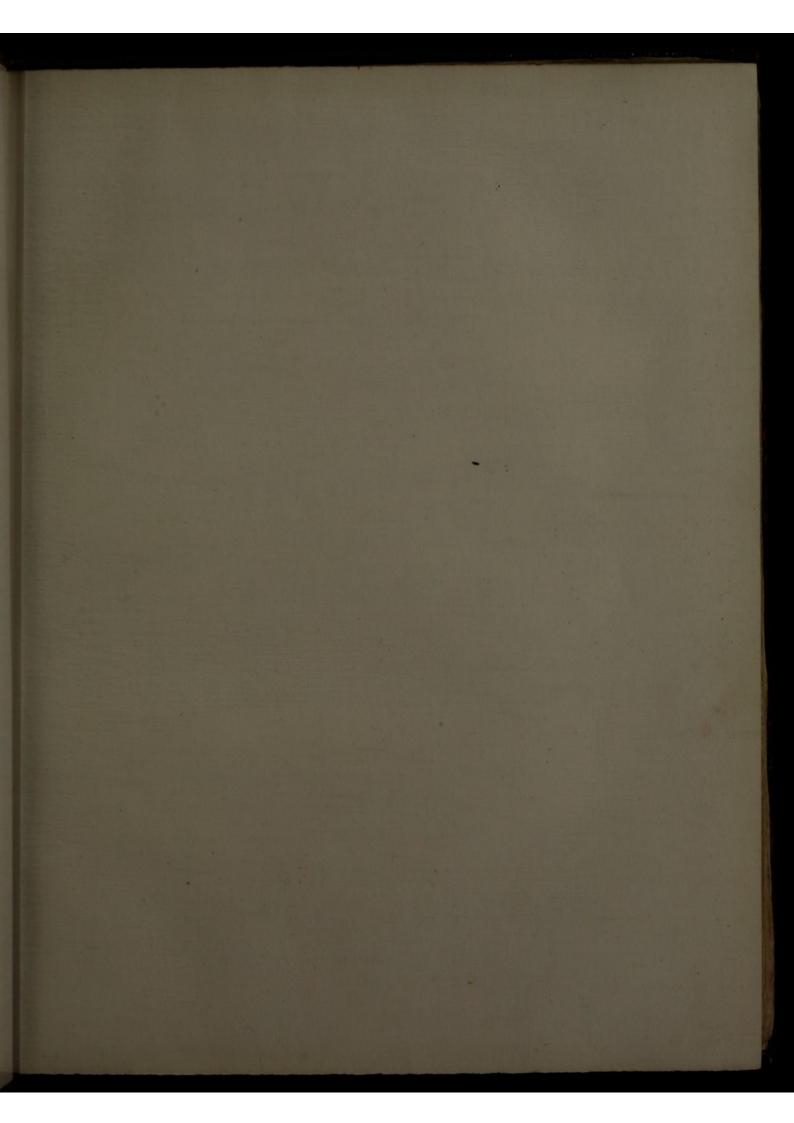
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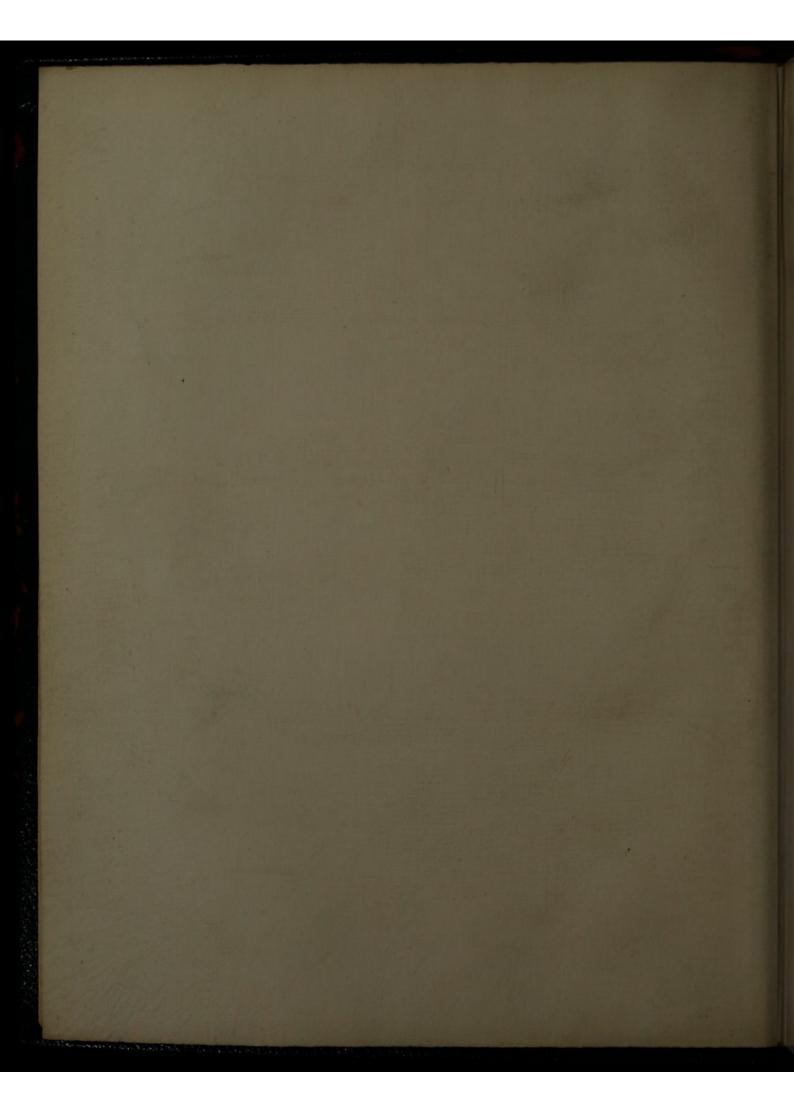












OBSERVATIONS

Mentioned in a following INDEX,

and made upon the

Bills of Mortality.

By JOHN GRAUNT,

Citizen of

LONDON.

With reference to the Government, Religion, Trade, Growth, Ayre, Difeases, and the several Changes of the said CITY.

Non, me ut miretur Turba, laboro, Contentus paucis Lectoribus —

LONDON,

Printed by Tho: Roycroft, for John Martin, James Allestry, and Tho: Dicas, at the Sign of the Bell in St. Paul's Church-yard, MDCLXII.



TO THE

RIGHT HONOURABLE

30 HN Lord ROBERTS, Baron of Truro, Lord Privie-Seal, and one of His Majestie's most Honourable Privie Council.

My Lord,



S the favours I have received from your Lordship oblige me to present you with some token of my gratitude: so the especial Honour I have for your Lordship hath made me sollicitous in the choice of the Present. For, if I could

have given your Lordship any choice Excerptions out of the Greek, or Latine Learning, I should (according to our English Proverb) thereby but carry Coals to Newcastle, and but give your Lorship Puddle-water, who, by your own eminent Knowledge in those learned Languages, can

drink out of the very Fountains your felf.

Moreover, to present your Lordship with tedious Narrations, were but to speak my own Ignorance of the Value, which his Majesty, and the Publick have of your Lordship's Time. And in brief, to offer any thing like what is already in other Books, were but to derogate from your Lordship's learning, which the World knows to be universal, and unacquainted with few usefull things contained in any of them.

Now having (I know not by what accident) engaged my thoughts upon the Bills of Mortality, and so far succeeded therein, as to have reduced several great confused Volumes into a few perspicuous Tables, and abridged

The Epistle Dedicatory.

fuch observations as naturally flowed from them, into a few fuccinct Paragraphs, without any long Series of multiloquious Deductions, I have presumed to sacrifice these my fmall, but first publish'd, Labours unto your Lordship, as unto whose benigne acceptance of some other of my Papers, even the Birth of these is due; hoping (if I may without vanity fay it) they may be of as much use to Persons in your Lordship's place, as they are of little or none to me, which is no more then the fairest Diamonds are to the Journey-man Jeweller that works them, or the poor Labourer that first dig'd them from the Earth. For with all humble submission to your Lordship, I conceive, That it doth not ill-become a Peer of the Parliament, or Member of his Majestie's Council, to consider how few starve of the many that beg: That the irreligious Proposals of some, to multiply People by Polygamy, is withall irrational, and fruitles: That the troublesome feclusions in the Plague-time is not a remedy to be purchased at vast inconveniencies: That the greatest Plagues of the City are equally, and quickly repaired from the Country: That the wasting of Males by Wars, and Colonies do not prejudice the due proportion between them and Females: That the Opinions of Plagues accompanying the Entrance of Kings is false, and seditious: That London, the Metropolis of England, is perhaps a Head too big for the Body, and possibly too strong: That this Head grows three times as fast as the Body unto which it belongs, that is, It doubles its People in a third part of the time: That our Parishes are now grown madly disproportionable: That our Temples are not sutable to our Religion: That the Trade, and very City of London removes Westward: That the walled City is but a one fifth of the whole Pyle:

The Epistle Dedicarory.

That the old Streets are unfit for the present frequencie of Coaches: That the passage of Ludgate is a throat too straight for the Body: That the fighting men about London, are able to make three as great Armies as can be of use in this Island: That the number of Heads is fuch, as hath certainly much deceived some of our Senatours in their appointments of Polemoney, &c. Now, although your Lordship's most excellent Discourses have well informed me, That your Lordship is no stranger to all these Positions; yet because I knew not that your Lordship had ever deduced them from the Bills of Mortality; I hoped it might not be ungratefull to your Lordship, to see unto how much profit that one Talent might be improved, besides the many curiosities concerning the waxing, and waning of Diseases, the relation between Healthfull, and fruitfull Seasons, the difference between the City and Country Air, &c. All which, being new, to the best of my knowledge, and the whole Pamphlet, not two hours reading, I did make bold to trouble your Lordship with a perusal of it, and by this humble Dedication of it, let your Lordship and the world see the Wisdom of our City, in appointing, and keeping these Accompts, and with how much affection and fuccess I am

My Lord,

Your Lordship's most obedient, and most faithfull Servant,

Birchen-Lane, 25 January 1662.

JOHN GRAUNT.

To the Honourable,

Sir ROBERT MORAY, Knight,

One of His Majestie's Privie-Council for His Kingdom of Scotland, and President of the Royal Society of Philosophers, meeting at Gresham-College, and to the rest of that Honourable Society.



He Observations, which I happened to make (for I designed them not) upon the Bills of Mortality, have fallen out to be both Political, and Natural, some concerning Trade, and Government, others concerning the Air, Countries, Seasons, Fruitfulness,

Health, Diseases; Longevity, and the proportions between the Sex, and Ages of Mankinde. All which (because St. Francis Bacon reckons his Discourses of Life and Death to be Natural History; and because I understand your selves are also appointing means, how to measure the Degrees of Heat, Wetness, and Windiness in the several Parts of His Majestie's Dominions) I am humbly bold to think Natural History also, and consequently, that I am obliged to cast in this small Mite into your great Treasury of that kinde.

His Majesty being not onely by antient Right supremely concerned in matters of Government, and Trade, but also by happy accident Prince of Philosophers, and of Physico-Mathematical Learning, not called so by Flatterers, and Parasites, but really so, as well by his own personal Abili-

The Epistle Dedicatory.

ties, as affection concerning those matters, upon which Accompt I sould have humbly dedicated both forts of my Observations unto His most Sacred Majesty; but to be (hort, I knew neither my Work, nor my Person fit to bear His Name, nor to deserve His Patronage. Nevertheles, as I have presumed to present this Pamphlet, so far as it relates to Government, and Trade, to one of His Majestie's Peers, and eminent Ministers of State: so I do desire your leave, to present the same unto You also, as it relates to Natural History, and as it depends upon the Mathematiques of my Shop-Arithmetique. For You are not onely his Majesties Privie Council for Philosophie, but also His Great Council. You are the three Estates, viz. the Mathematical, Mechanical, and Physical. You are his Parliament of Nature, and it is no less disparagement to the meanest of your number, to say there may be Commoners as well as Peers in Philosophie among st you. For my own part I count it happineß enough to my felf, that there is such a Council of Nature, as your Society is, in being; and I do with as much earnestness enquire after your Expeditions against the Impediments of Science, as to know what Armies, and Navies the feveral Princes of the World are setting forth. I concern my self as. much to know who are Curatours of this or the other Experiments, as to know who are Mareschal's of France, or Chancellour of Sweden. I am as well pleased to hear you are satisfied in a luciferous Experiment, as that a breach bath been made in the Enemy's works: and your ingenious arguings immediately from sense, and fast, are as pleasant to me as the noise of victorious Guns, and Trumpets.

Moreover, as I contend for the Decent Rights, and Ceremonies of the Church, so I also contend against the envious Schismaticks of your Society (who think you do nothing,

unless

The Epistle Dedicatory.

unless you presently transmute Mettals, make Butter and Cheefe without Milk; and (as their own Ballad bath it, make Leather without Hides) by afferting the usefulness of even all your preparatory, and luciferous experiments being not the Ceremonies, but the substance, and principles of usefull Arts. For, I finde in Trade the want of an univer (al meafure, and have heard Musicians wrangle about the just, and uniform keeping of time in their Conforts, and therefore cannot with patience hear, that your Labours about Vibrations, eminently conducing to both, should be slighted, nor your Pendula, called Swing-Iwangs with (corn. Nor can 1 better endure that your Exercitations about Air should be termed fit employment onely for Airie Fancies, and not adequate Tasks for the most folid, and piercing heads: This is my Opinion concerning you, and although I am none of your number, nor have the least ambition to be so, otherwise then to become able for your service, and worthy of your Trust: yet I am coveteous to have the right of being represented by you: To which end I desire, that this little Exhibition of mine, may be looked upon as a Free-holder's Vote for the choosing of Knights and Burgesses to sit in the Parliament of Nature, meaning thereby, that as the Parliament owns a Free-holder, though he hath but fourty Shillings a year to be one of them; so in the same manner and degree, I also desire to be owned as one of you, and that no longer, then I continue a faithfull Friend, and Servant of your Designs and Persons,

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PREFACE.

Aving been born, and bred in the City of London, and having always observed, that most of them who constantly took in the weekly Bills of Mortality, made little other use of them, then to look at the foot, how the Burials increased, or decreased; And, among the Casualties, what had happened rare, and extraordinary in the week currant: so as they might take the same as a Text to talk upon, in the next Company; and withall, in the Plague-time, how the sickness increased, or decreased, that so the Rich might judge of the necessity of their removall, and Trudes-men might conjecture what doings they were like to have in their respective dealings:

a. Now, I thought that the Wisdom of our City had certainly designed the laudable practice of takeing, and distributing these Accompts, for other, and greater uses then those above-mentioned, or at least, that some other uses might be made of them: And thereupon I casting mine Eye upon so many of the B. General

General Bills, as next came to hand, I found encouragement from them, to look out all the Bills I could, and (to be short) to furnish my self with as much matter of that kind, even as the Hall of the Parish-Clerks could afford me; the which, when I had reduced into Tables (the Copies whereof are here inferted) fo as to have a view of the whole together, in order to the more ready comparing of one Year, Seafon, Parift, or other Division of the City, with another, in respect of all the Burials, and Christnings, and of all the Difeases, and Casualties happening in each of them respectively; I did then begin, not onely to examine the Conceits, Opinions, and Conjectures, which upon view of a few scattered Bills I had taken up; but did also admit new ones, as I found reason, and occafion from my Tables.

3. Moreover, finding some Truths, and not commonly-believed Opinions, to arise from my Meditations upon these neglected Papers, I proceeded surther, to consider what benefit the knowledge of the same would bring to the World; that I might not engage my self in idle, and useless Speculations, but like those Noble Virtuosi of Gresham-Colledge (who reduce their subtile Disquisitions upon Nature into downright Mechanical uses) present the World with

fome real fruit from those ayrie Blossoms.

4. How far I have succeeded in the Premisses, I now offer to the World's censure. Who, I hope, will not expect from me, not professing Letters, things demonstrated with the same certainty, wherewith Learned men determine in their Scholes; but will take it well, that I should offer at a new thing, and could forbear

forbear presuming to meddle where any of the Learned Pens have ever touched before, and that I have taken the pains, and been at the charge, of setting out those Tables, whereby all men may both correct my Positions, and raise others of their own: For herein I have, like a filly Schole-boy, coming to say my Lesson to the World (that Peevish, and Tetchie Master) brought a bundle of Rods wherewith to be whipt, for every mistake I have committed.

B 2

CHAP.

CHAP. I.

Of the Bills of Mortality, their beginning, and progress.

Mortality extant at the Parish-Clerks Hall, begins the 29. of December, 1603, being the first year of King James his Reign; since when, a weekly Accompt hath been kept there of Burials and Christnings. It is true, There were Bills before, viz. for the years 1592, -93, -94. but so interrupted since, that I could not depend upon the sufficiencie of them, rather relying upon those Accompts which have been kept since, in order, as to all the uses I shall make of them.

2. I believe, that the rife of keeping these Accompts, was taken from the Plague: for the said Bills (for ought appears) first began in the said year 1592. being a time of great Mortality; And after some distuse, were resumed again in the year 1603, after the

great Plague then happening likewife.

3. These Bills were Printed and published, not onely every week on Thursdays, but also a general Accompt of the whole Year was given in, upon the Thursday before Christmas Day: which said general Accompts have been presented in the several manners following, viz. from the Year 1603, to the Year 1624, inclusive, according to the Pattern here inserted.

The generall Bill for the whole Year, of all the Burials and Christnings, as well within the City of London, and the Liberties thereof, as in the Nine out-Parishes adjoyning to the City, with the Pest-house belonging to the same: From Thursday the 18. of Desember. 1623. to Thursday the 16. of Desember, 1624. According to the Report made to the King's most Excellent Majesty, by the Company of the Parish-Clerks of London.

Buried this Year in the fourscore and seventeen Parishes of 3386.
avilance of the Discuse
Buried this Year in the fixteen Parishes of London, and the Pest- } 5924.
house being within the Liberties, and without the walls,
Whereof, of the Plague,
Whereof, of the Plague. The whole summ of all the Burials in London, and the Liberties 3 9310. thereof, is this Year,
thereof, is this Years
Whereof of the Plante 0.
Buried of the Plague without the Liberties, in Middlesex, and 3 o. Surrey this whole Year,
Survey this whole Year,
Christned in London, and the Liberties thereof, this Year,
Buried this Year in the Nine out-Parishes, adjoyning to London, 2 2900.
Buried this Year in the Nine out-Parishes, adjoyning to London, 3 2900.
Whereof, of the Plague,
The Total of all the Burials in the places aforesaid, is 12210.
Whereof, of the Plague,
Christned in all the aforesaid places this Year - 8299.
Parishes clear of the Plague, 116.
Parishes that have been Infected this Year 6.

4 In the Year 1625, every Parish was particularized, as in this following Bill: where note, That this next year of Plague caused the Augmentation, and Correction of the Bills; as the former year of Plague, did the very being of them.

A

A general, or great Bill for this Year, of the whole number of Burials, which have been buried of all Diseases, and also of the Plague in every Parish within the City of London, and the Liberties thereof; as also in the nine out-Parishes adjoyning to the said City; with the Pest-house belonging to the same. From Thursday the 16. day of December, 1624. to Thursday the 15. day of December, 1625. According to the Report, made to the king's most Excellent Majesty, by the Company of Parish-Clerks of London.

LIONDON	Pur Dia	LICANDON	DI.
LONDON, Albanes in Woodstreet-	-188 -18g.		riag.
Alballama Parking	78	Gabriel Fen church 71	_
Alhallows Barking	397 263	George Botolphs-lane - 30	
Alhallows Breadstreet -	- 34 14	Gregories by Pauls 296	
Alhallows the Great -	-442 302	Hellens in Bishopsgatest. 136	71
Alhallows Hony-lane-		James by Garlickhithe - 180	
Alhallows the less	-259 205	John Baptist 122	
Alhal. in Lumberdstree	et- 86 44	John Evangelist 7	0
Alhallows Stainings-	-183 138	John Zacharies - 143	
Alhallows the Wall		James Duks place 310 2	54
Alphage Cripple gate-		Katherine Coleman-263	
Andrew-Hubbard	-146 101	Ratherine Cree-church 886 3	
Andrews Undershaft -			
Andrews by Wardrobe-	-272 101	Lawrence in the Jewrie - 91	, ,
Annes at Aldersgate -	106 738	Lawrence Pountney 206 1	-
Annes Black-Friers-	236 27	Leonards Eastcheap 55	26
Antholins Parish	330 213	Leonards Fosterlane 292	
Austins Parish ———	- 01 31	Magnus Parish by Bridge-137	85
		Margarets Lothbury114	64
Barthol, at the Exchang	e. 52 24	Margarets Moses - 37	25
Bennets Fink ——		Margarets new Fishstreet-123	82
Bennets Grace-Church-		Margarets Pattons - 77	50
Bennets at Pauls Wharf-		Mary Ab-church 98	58
Bennets Sherehog-	- 24 8	Mary Aldermanbury -126	79
Botolps Billings-gate -		Mary Alderniary 92	54
Christ's Church Parish -	-611 371	Mary le Bow 35	19
Christopher's Parish-	- 48 28	Mary Bothaw — 22	14
Clements by Eastcheap-	- 87 72		11
Dyonis Black-Church-			84
Dunstans in the East -		Mary Mounthaw - 76	
Edmunds Lumberdstree		Mary Comment.	58
Ethelborow in Bishopsg-	-205 101	Mary Stainings	92
St. Faiths	- 89 45	Mary Stainings 70	44
St. Fosters in Foster-lane	740 700	Mary Woolchurch 58	35
and an Polici-lalle	149 101		501
		Mai	tins

LONDON. Bur. Pla.	LONDON.	Bar. Pla.
Martins Ironnionger-lane 25 18	Nicholas Acons	
Martins at Ludgate 254 164	Nicholas Cole-Abby -	- 87 67
Martins Organs 88 47	Nicholas Olaves	70 43
Martins Outwich 60 30	Olaves in Hartstreet	-266 195
Martins in the Vintry -339 208	Olaves in the Jewry-	
Matthew Fridaystreet - 24 11	Olaves in Silverstreet .	
Maudlins in Milkstreet -401 23	Pancras by Soperlane_	
Maudlins Oldfish-street225 142	Peter in Cheap-	
Michael Baffishaw — 199 139	Peters in Corn-hill -	
Michael Corn-Hill 159, 79	Peters at Pauls Wharf-	
Michael Crooked-lane -144 91	Peters poor in Broaditt	cet- 52 27
	Stevens in Colemanstre	et.c06350
Michael Queenhithe —217157	Stevens in Walbrook	24 1311
	Swithins at Londonito	
Michael	Thomas Apostles	141 107
I WITE HALL IN THE OWNER OF THE OWNER OWNER OF THE OWNER	Trinity Parish	148 87
Mildreds Breadstreet - 60 44	Trinty Patrin	The Land of Land
Mildreds Poultrey 94 45	Tan Committee and	19 10 10 10 10 10 10 10 10 10 10 10 10 10
Buried within the 97 . Parishes within	the Walls of all Difeases.	14340.
Where of, of the Plague		9197.
		75
Andrews in Holborn - 2190 163	Georges Southwark-	-1608 912
Dankalman the Creat St 6 26	o triles crippiegale	-2766 -22
Descholment the left - TT1	c Chaves in Southwark	3009 2009
Davids TAXIIO2	I Saviours in Southwath	
Detalah Algate2572 T65	3 Sepulchres Parim ——	
Daidewal Drecind 212 IS	2 I nomas in bouthwark	33) 41
Describb Rillsongate 2224 71	a Trimity in the Minione	CHARLES OF THE PROPERTY OF
Botolph Aldersgate - 578 30	At the Petthouse	- 194 189
Dunstanes the West- 860 64	the source and	BARD DOLL
Dunitalies the weit	Lateralle Ganding have mit	10 TO 10 1
Buried in the 16 Parishes without	ne watts, standing part with	nd \$26972
the Liberties, and part without: i	n Miaatejex, and Surrey,	
at the Pesthouse.	The state of the s	-17153
Whereof, of the Plague	The same of the sa	
	ine out Designer	A PROPERTY OF
Buried in the nine out-Parishes.		
Clements Templebar—128 4 755 Martins in the Fields—1470 973		
Giles in the Fields — 1333 947 Mary White-chappel — 3305 227 889		
James at Clarkenwell—1191 903 Magdalens Bermondfey-1127 889		
Katherins by the Tower- 998 744 Savoy Parish 250 176		
Leonards in Shorditch-1995	7	
Buried in the nine out Parishes, i	n Middlelex, and onity	12953
Whereof, of the Plague		9067
thucient of the stages		
THE REPORT OF THE PERSON OF TH		The

5. In the Year 1626. the City of Westminster in imitation of London, was inserted. The grosse accompt of the Burials, and Christnings, with distinction of the Plague being only taken notice of thereins the sifth, or last Canton, or Lined-space, of the said Bill, being varyed into the form following, viz.

In Westminster this Year,	Buried 471
In Westminster this Year,	Plague 13
The development of the Company	Christenings - 361

6. In the Year 1629. An accompt of the Diseases, and Casualties whereof any dyed, together with the distinction of Males and Females, making the sixth Canton of the Bill, was added in manner following.

The Canton of Casualties, and of the Bill for the Year 1639. being of the some forme with that of 1629.

The Diseases, and Casualties this year being 1632.

a man and Cailleanne Ass	Jaundies - 43		
A Bortive, and Stilborn - 445	Jawfaln 8		
A Bortive, and Stilborn — 445 Affrighted — 1	Jawrain 8		
Aged 628 Ague 43	Impostume — 74		
Ague - 43	Kil'd by feveral accidents 46		
Apoplex, and Meagrom - 17	King's Evil ———— 38		
Bit with a mad dog 1	Lethargie 2		
Bleeding 3	Livergrown ———— 87		
Bloody flux, scowring, and flux 348	Lunatique 5		
Brused, Issues, fores, and ulcers, 28	Made away themselves — 15		
Burnt, and Scalded 5	Meailes 80		
Burst, and Rupture 9	Murthered — 7		
Cancer, and Wolf 10	Over-laid, and starved at nurse-7		
Canker — I	Palfie 25		
Childbed 171	Piles — I		
Chrisomes, and Infants 2268	Piles F		
Cold, and Cough 55	Planet 13		
Colick, Stone, and Strangury - 56	Pleurifie, and Spleen 36		
Confumption 1797	Purples, and spotted Feaver - 38		
Confumption — 1797 Convultion — 241	Quinfie 7		
Cut of the Stone 5	Riting of the Lights 98		
Dead in the street, and starved - 6	Sciatica —		
Dropfie, and Swelling - 267	Scurvey, and Itch9		
Drowned 34	Suddenly — 62		
Executed, and prest to death - 18	Surfet86		
Falling Sickness - 7	Swine Pox — 6		
Fever 1108	Teeth 470		
Fiftula	Thrush, and Sore mouth - 40		
Flocks, and fmall Pox 531	Tympany ————————————————————————————————————		
French Pox 12	Tiffick — 34		
Gangrene	Vomiting		
Gout - 4	Worms 27		
Grief	Wolflis		
TO ARE DESIGNED OF THE	Transplant trackers, The		
(Males done)	- (Males - 14022) Whereof		
Christened Females 4500 B	uried Females 4602 of the		
In all marks	In all ocas (Planes		
Christened Males—4994 Females-4590 Buried Females—4603 of the In all —9584 Buried In all —9535 Plague 8			
Decreased in the Burials in the 122 Parishes, and at the Pesshouse this year 993 Decreased of the Plague in the 122 Parishes, and at the Pesshouse this year, 266			
Decicaled of the Plague in the 122 F	armies, and at the reithouse this year, 200		

7. In the year 1636, the Accompt of the Burials, and Christnings in the Parishes of Islington, Lambeth, Stepney, Newington, Hackney, and Redriff, were added in the manner following, making a seventh Canton, viz.

In Margaret Westminster	Christned — 440 Buried — 890 Plague — 0	Newington	Christned — 99 Buried — 181 Plague — 0
Iflington	Christned — 36 Buried ——113 Plague—— 0 Christned —132	Hackney	Christned— 30 Buried —— 91 Plague—— 0
Lambeth	Buried —— 220 Plague —— 0 Christned — 892 Buried —— 1486 Plague —— 0	Redriff	Christned — 16 Buried — 48 Plague — 0
Where	otal of all the Burials in the of of the Plague— otal of all the Christnings -		0

8. Covent Garden being made a Parish, the nine outs Parishes were called the ten out-Parishes, the which in

former years were but eight.

9. In the year 1660, the last-mentioned ten Parishes, with Westminster, Islington, Lambeth, Stepney, Newington, Hackney, and Redriff, are entered under two Divisions, viz. the one containing the twelve Parishes lying in Middlesex, and Surrey, and the other the five Parishes within the City, and Liberties of Westminster, viz. St. Clement-Danes, St. Paul's-Covent-Garden, St. Martin's in the Fields, St. Mary-Savoy, and St. Margaret's Westminster.

10. We have hitherto described the several steps, whereby

whereby the Bills of Mortality are come up to their present state; we come next to shew how they are made, and composed, which is in this manner, viz. When any one dies, then, either by tolling, or ringing of a Bell, or by bespeaking of a Grave of the Sexton, the same is known to the Searchers, corresponding with the said Sexton.

Matrons, sworn to their Office) repair to the place, where the dead Corps lies, and by view of the same, and by other enquiries, they examine by what Disease, or Casualty the Corps died. Hereupon they make their Report to the Parish-Clerk, and he, every Tuesday night, carries in an Accompt of all the Burials, and Christmings, happing that Week, to the Clerk of the Hall. On Wednesday the general Accompt is made up, and Printed, and on Thursdays published, and dispersed to the several Families, who will pay four shillings per Annum for them.

Bills have been set out in the several varieties aforementioned, yet the Original Entries in the Hall-books were as exact in the very first Year as to all particulars, as now; and the specifying of Casualties

and Difeases, was probably more.

CHAP.

CAP. II.

General Observations upon the Casualties.

In my Discourses upon these Bills I shall first speak of the Casualties, then give my Observations with reference to the Places, and Parishes comprehended in the Bills; and next of the Years, and Seasons.

gistrate should himself take notice of the numbers of Burials, and Christnings, viz. to see, whether the City increase or decrease in people; whether it increase proportionably with the rest of the Nation; whether it be grown big enough, or too big, &c. But why the same should be made known to the People, otherwise then to please them as with a curiosity, I see not.

2. Nor could I ever yet learn (from the many I have asked, and those not of the least Sagacity) to what purpose the distinction between Males and Females is inserted, or at all taken notice of; or why that of Marriages was not equally given in? Nor is it obvious to every body, why the Accompt of Casualties (whereof we are now speaking) is made? The reason, which seems most obvious for this latter, is, That the state of health in the City may at all times appear.

3. Now it may be Objected, That the same depends most upon the Accompts of Epidemical Diseases, and upon the chief of them all, the Plague; wherefore the mention of the rest seems onely matter of curiosity.

4. But 4. But to this we answer; That the knowledg even of the numbers, which die of the Plague, is not sufficiently deduced from the meer Report of the Searchers, which onely the Bills afford; but from other Ratiocinations, and comparings of the Plague with some

other Casualties.

7. For we shall make it probable, that in Years of Plague a quarter part more dies of that Disease then are set down; the same we shall also prove by the other Casualties. Wherefore, if it be necessary to impart to the World a good Accompt of some sew Casualties, which since it cannot well be done without giving an Accompt of them all, then is our common

practife of fo doing very apt, and rational.

6. Now, to make these Corrections upon the perhaps, ignorant, and careless Searchers Reports, I considered first of what Authority they were in themselves, that is, whether any credit at all were to be given to their Distinguishments: and finding that many of the Cafualties were but matter of sense, as whether a Childe were Abortive, or Stilborn; whether men were Aged, that is to fay, above fixty years old, or thereabouts, when they died, without any curious determination, whether fuch Aved persons died purely of Age, as for that the Innate heat was quite extinct, or the Radical moisture quite dried up (for I have heard some Candid Physicians complain of the darkness, which themselves were in hereupon) I say, that these Distinguishments being but matter of sense, I concluded the Searchers Report might be fufficient in the Cafe.

7. As for Consumptions, if the Searchers do but truly Report,

Report (as they may) whether the dead Corps were very lean, and worn away, it matters not to many of our purposes, whether the Disease were exactly the same, as Physicians define it in their Books. Moreover, In case a man of seventy sive years old died of a Cough (of which had he been free, he might have possibly lived to ninety) I esteem it little errour (as to many of our purposes) if this Person be, in the Table of Casualties, reckoned among the Aged, and not

placed under the Title of Coughs.

8. In the matter of Infants I would defire but to know clearly, what the Searchers mean by Infants, as whether Children that cannot speak, as the word Infants seems to signifie, or Children under two or three years old, although I should not be satisfied, whether the Infant died of Winde, or of Teeth, or of the Convulsion, &c. or were choak'd with Phlegm, or else of Teeth, Convulsion, and Scowring, apart, or together, which, they say, do often cause one another: for, I say, it is somewhat, to know how many die usually before they can speak, or how many live past any assigned number of years.

9. I say, it is enough, if we know from the Searchers but the most predominant Symptomes; as that one died of the Head-Ache, who was sorely tormented with it, though the Physicians were of Opinion, that the Disease was in the Stomach. Again, if one died suddenly, the matter is not great, whether it be reported in the Bills, Suddenly, Apoplexie, or Planet-

Arucken, &c.

Searchers are able to report the Opinion of the Phy-

fician, who was with the Patient, as they receive the same from the Friends of the Defunct, and in very many cases, such as Drowning, Scalding, Bleeding, Vomiting, making-away them selves, Lunatiques, Sores, Small-Pox, &c. their own senses are sufficient, and the generality of the World, are able prettie well to distinguish the Gowt, Stone, Dropsie, Falling-Sickness, Palsie, Agues, Plurisy, Rickets, &c. one from another.

aptest to be confounded, and mistaken, I shall in the ensuing Discourse presume to touch upon them so far, as the Learning of these Bills bath enabled me.

ments, our first Observation upon the Casualties shall be, that in twenty Years there dying of all diseases and Casualties, 229250. that 71124. dyed of the Thrush, Convulsion, Rickets, Teeth, and Worms; and as Abortives, Chrysomes, Infants, Liver-grown, and Overlaid; that is to say, that about \(\frac{1}{3}\). of the whole died of those Diseases, which we guess did all light upon Children under sour or sive Years old.

and Measles, and of Worms without Convulsions, 12210. of which number we suppose likewise, that about ½ might be Children under six Years old. Now, if we consider that 16. of the said 229 thousand died of that extraordinary and grand Casualty the Plague, we shall finde that about thirty six per centum of all quick conceptions, died before six years old.

14. The second Observation is; That of the said 229250, dying of all Diseases, there died of acute

Difeases/

Diseases (the Plague excepted) but about 50000. or parts. The which proportion doth give a measure of the state, and disposition of this Climate, and Air, as to health, these asute, and Epidemical Diseases happening suddenly, and vehemently, upon the like

corruptions, and alterations in the Air.

15. The third Observation is, that of the said 229. thousand about 70. died of Chronical Diseases, which shews (as I conceive) the state, and disposition of the Country (including as well it's Food, as Air) in reference to health, or rather to long writy: for as the proportion of Acute and Epidemical Diseases shews the aptness of the Air to suddain and vehement Impressions, so the Chronical Diseases shew the ordinary temper of the Place, fo that upon the proportion of Chronical Diseases seems to hang the judgment of the fitness of the Country for long Life. For, I conceive, that in Countries subject to great Epidemical sweeps men may live very long, but where the proportion of the Chronical distempers is great, it is not likely to be fo; because men being long fick, and alwayes fickly, cannot live to any great age, as we see in several forts of Metal-men, who although they are less subject to acute Diseases then others, yet seldome live to be old, that is, not to reach unto those years, which David faies is the age of man.

16. The fourth Observation is; That of the said 229000. not 4000. died of outward Griefs, as of Cancers, Fistulaes, Sores, Vicers, broken and bruised Limbs, Impostumes, Itch, King's evil, Leprose, Scald-head, Swine-

Pox, Wens, &c. viz. not one in 60.

17. In the next place, whereas many perfons live

live in great fear, and apprehension of some of the more formidable, and notorious diseases following; I shall onely set down how many died of each: that the respective numbers, being compared with the Total 229250, those persons may the better understand the hazard they are in.

- 069
- 125
- 829
- 002
- 022
- 279

- IO2I

- 0086

Ladie of notoribus Dijeujes.	I would by Cooperson
Apoplex 1306	Bleeding
Cut of the Stone - 0038	Burnt, and Scalded -
Falling Sickness-0074	the state of the s
Dead in the Streets 0243	
Gowt - 0134	
Head-Ach - 0051	Grief
Jaundice - 0998	
Lethargy - 0067	
Leprofy - 0006	
Lunatique OIS8	

Overlaid, and starved -0529 Poy oned -

Sciatica -- 0005 Vemiting --

Sodainly 0454

18. In the foregoing Observations we ventured to make a Standard of the healthfulness of the Air from the proportion of Acute and Epidemical diseases, and of the wholesomeness of the Food from that of the Chronical. Yet, for a smuch as neither of them alone do shew the longavity of the Inhabitants, we D

Rupture 0423 Smothered -- 026

Stone and Strangury =- 0863 | Starved ---

standard, and Correction of both, which is the proportion of the aged, viz. 15757 to the Total 229250. That is of about 1. to 15. or 7. per cent Onely the question is, what number of Years the Searchers call Aged, which I conceive must be the same, that David calls so, viz. 70. For no man can be said to die properly of Age, who is much less: it follows from hence, that if in any other Country more then seven of the 100 live beyond 70. such Country is to be esteem-

ed more healthfull then this of our City.

19. Before we speak of particular Casualties, we shall observe, that among the several Casualties some bear a constant proportion unto the whole number of Burials: such are Chronical diseases, and the diseases, whereunto the City is most subject; as for Example, Consumptions, Dropsies, Jaundice, Gowt, Stone, Palsie, Scurvy, rising of the Lights, or Mother, Rickets, Aged, Agnes, Feavers, Bloody-Flux, and Scowring: nay some Accidents, as Grief, Drowning, Men's making away themselves, and being Kil'd by several Accidents, &c. do the like, whereas Epidemical, and Malignant diseases, as the Plague, Purples, Spotted-Feaver, Small-Pox, and Measles do not keep that equality, so as in some Years, or Moneths, there died ten times as many as in others.

CHAP. III.

Of Particular Cafualties.

This appears, for that of the 229250 which have died, we find not above fifty one to have been starved, excepting helpless Infants at Nurse, which being caused rather by carelesness, ignorance, and infirmity of the Milch-women, is not properly an effect, or sign of want of food in the Countrey, or of

means to get it.

2. The Observation, which I shall add hereunto, is, That the vast numbers of Beggars, swarming up and down this City, do all live, and seem to be most of them healthy and strong; whereupon I make this Question, Whether, since they do all live by Begging, that is, without any kind of labour; it were not better for the State to keep them, even although they earned nothing; that so they might live regularly, and not in that Debauchery, as many Beggars do; and that they might be cured of their bodily Impotencies, or taught to work, &c. each according to his condition, and capacity; or by being employed in some work (not better undone) might be accustomed, and sitted for labour.

3. To this some may Object; That Beggars are now maintained by voluntary Contributions, whereas in the other way the same must be done by a ge-

neral Tax; and consequently the Objects of Charity

would be removed, and taken away.

4. To which we Answer; That in Holland, although no where sewer Beggars appear to charm up commiseration in the credulous, yet no where is there greater, or more frequent Charity: onely indeed the Magistrate is both the Beggar, and the disposer of what is gotten by begging; so as all Givers have a Moral certainty, that their Charity shall be well applied.

5. Moreover, I question; Whether what we give to a Wretch, that shews us lamentable fores, and mutilations, be always out of the purest charity? that is, purely for God's sake; for as much as when we see such Objects, we then feel in our selves a kinde of pain, and passion by consent; of which we ease our selves, when we think we have eased them, with whom we sympathized: or else we bespeak aforehand the like commisseration in others towards our selves, when we shall (as we fear we may) fall into the like distress.

6. We have said, 'Twere better the Publick should keep the Beggars, though they earned nothing, &c. But most men will laugh to hear us suppose, That any able to work (as indeed most Beggars are, in one kind of measure, or another) should be kept without earning any thing. But we Answer, That if there be but a certain proportion of work to be done; and that the same be already done by the non-Beggars; then to employ the Beggars about it, will but transfer the want from one hand to another; nor can a Learner work so cheap as a skilfull practised Artist can. As for example, A practised Spinner shall spin a pound of Wool

Wool worth two shillings for six pence; but a learner, undertaking it for three pence, shall make the Wool indeed into Yarn, but not worth twelve pence.

work in the World, which is the making England as considerable for Trade as Holland; for there is but a certain proportion of Trade in the world, and Holland is prepossessed of the greater part of it, and is thought to have more skill, and experience to manage it: wherefore, to bring England into Holland's condition, as to this particular, is the same, as to send all the Beggars about London into the West-Countrey to Spin, where they shall onely spoil the Clothiers Wool, and beggar the present Spinners at best; but, at worst, put the whole Trade of the Countrey to a stand, until the Hollander, being more ready for it, have snapt that with the rest.

8. My next Observation is; That but few are Murthered, viz. not above 86 of the 22950. which have died of other diseases, and casualties; whereas in Paris few nights scape without their Tragedie.

9. The Reasons of this we conceive to be Two: One is the Government, and Guard of the City by Citizens themselves, and that alternately. No man settling into a Trade for that employment. And the other is, The natural, and customary abhorrence of that inhumane Crime, and all Bloodshed by most Englishmen: for of all that are Executed sew are for Murther. Besides the great and frequent Revolutions, and Changes of Government since the year 1650, have been with little bloodshed; the Vsurpers themselves having Executed sew in comparison, upon the Accompt

Accompt of disturbing their Innovations:

In brief, when any dead Body is found in England, no Algebraist, or Uncipherer of Letters, can use more subtile suppositions, and varietie of conjectures to finde out the Demonstration, or Cipher; then every common unconcerned Person doth to finde out the Murtherers, and that for ever, untill it be done.

11. The Lunaticks are also but few, viz. 158 in 229250. though I fear many more then are set down in our Bills, sew being entred for such, but those who die at Bedlam; and there all seem to die of their Lunacie, who died Lunaticks; for there is much difference in computing the number of Lunaticks, that die (though of Fevers, and all other Diseases, unto which Lunacie is no supersedias) and those that die by reason of their Madnes.

12. So that, this Casualty being so uncertain, I shall not force my self to make any inference from the numbers, and proportions we finde in our Bills concerning it: onely I dare ensure any man at this present, well in his Wits, for one in the thousand, that he shall not die a Lunatick in Bedlam, within these seven years, because I finde not above one in about one

thousand five hundred have done so.

of men, that made away themselves, who are another fort of Mad-men, that think to ease themselves of pain by leaping into Hell; or else are yet more Mad, so as to think there is no such place; or that men may go to rest by death, though they die in self-marther, the greatest Sin.

that have been Drowned, Killed by falls from Scaffolds, or by Carts running over them, &c. because the same depends upon the casual Trade, and Employment of men, and upon matters, which are but circumstantial to the Seasons, and Regions we live in; and affords

little of that Science and Certainty we aim at.

15. We finde one Casualty in our Bills, of which though there be daily talk, there is little effect, much like our abhorrence of Toads, and Snakes, as most poisonous Creatures, whereas few men dare say upon their own knowledge, they ever found harm by either; and this Casualty is the French-Pox, gotten, for the most part, not so much by the intemperate use of Venery (which rather causeth the Gomt) as of

many common Women.

Bars, which keep some men within bounds, as to these extravagancies: for in the afore-mentioned 229250 we finde not above 392 to haved died of the Pox.

Now, forasmuch as it is not good to let the World be lulled into a security, and belief of Impunity by our Bills, which we intend shall not be onely as Death's-head, to put men in minde of their Mortality, but also as Mercurial Statues to point out the most dangerous, ways that lead us into it, and misery. We shall therefore shew, that the Pox is not as the Toads, and Snakes afore-mentioned, but of a quite contrary nature, together with the reason why it appears otherwise.

17. Forasmuch as by the ordinary discourse of the world it seems a great part of men have, at one time,

or other, had some species of this disease, I wondering why so sew died of it, especially because I could not take that to be so harmless, whereof so many complained very siercely; upon inquiry I found that those who died of it out of the Hospitals (especially that of King's-Land, and the Lock in Southwark) were returned of Vlcers, and sores. And in brief I found, that all mentioned to die of the French-Pox were returned by the Clerks of Saint Giles's, and Saint Martin's in the Fields onely; in which place I understood that most of the vilest, and most miserable houses of uncleanness were: from whence I concluded, that onely hated persons, and such, whose very Noses were eaten of, were reported by the searchers to have died of this too frequent Maladie.

what name, or Casualtie, such as die of these diseases are brought in: I say, under the Consumption: for asmuch, as all dying thereof die so emaciated and lean (their Ulcers disappearing upon Death) that the Old-women Searchers after the mist of a Cup of Ale, and the bribe of a two-groat see, instead of one, given them, cannot tell whether this emaciation, or leanness were from a Phthisis, or from an Heeliek Fever, Atrophy, &c. or from an Insection of the Spermatick parts, which in length of time, and in various disguises hath at last vitiated the habit of the Body, and by disabling the parts to digest their nourishment brought them to the condition of Leanness above mentioned.

19. My next Observation is, that of the Rickets we finde no mention among the Casualties; untill the

Year

year 1634, and then but of 14 for that whole year.

did first appear about that time; or whether a Disease, which had been long before, did then first re-

ceive its Name?

dare venture on no deeper Arguments:) I enquired what other Casualties before the year 1634, named in the Bills, was most like the Rickets; and found, not onely by Pretenders to know it, but also from other Bills, that Liver-grown was the nearest. For in some years I finde Liver-grown, Spleen, and Rickets, put all together, by reson (as I conceive) of their likeness to each other. Hereupon I added the Liver-growns of the year 1634, viz. 77, to the Rickets of the same year, viz. 14. making in all 91. which Total, as also the Number 77. it self, I compared with the Liver-grown of the precedent year, 1633, viz. 82. All which shewed me, that the Rickets was a new Disease over and above.

22. Now, this being but a faint Argument, I looked both forwards and backwards, and found, that in the year 1629, when no Rickets appeared, there was but 94 Liver-growns; and in the year 1636, there was 99 Liver-grown, although there were also 50 of the Rickets: onely this is not to be denyed, that when the Rickets grew very numerous (as in the year 1660, viz. to be 521.) then there appeared not above 15 of

Liver-grown.

23. In the year 1659 were 441 Rickets, and 8 Liver-grown. In the year 1658, were 476 Rickets, and 51 Liver-grown. Now, though it be granted that these

these Diseases were confounded in the judgment of the Nurses, yet it is most certain, that the Liver-grown did never but once, viz. Anno 1630, exceed 100. whereas Anno 1660, Liver-grown, and Rickets were 536.

24. It is also to be observed, That the Rickets were never more numerous then now, and that they are still increasing; for Anno 1649, there was but 190, next year 260, next after that 329, and so forwards, with some little starting backwards in some years, untill the year 1660, which produced the greatest of all.

25. Now, such backstartings seem to be universal in all things; for we do not onely see in the progressive motion of the wheels of Watches, and in the rowing of Boats, that there is a little starting, or jerking backwards between every step forwards, but also (if I am not much deceived) there appeared the like in the motion of the Moon, which in the long Telescopes at Gresham-College one may sensibly discern.

26. There seems also to be another new Disease, called by our Bills The slopping of the Stomack, first mentioned in the year 1636, the which Malady from that year to 1647, increased but from 6 to 29; Anno 1655 it came to be 145. In 57, to 277. In 60, to 214. Now these proportions far exceeding the difference of proportion generally arising from the increase of Inhabitants, and from the resort of Advence to the City, shews there is some new Disease, which appeareth to the Vulgar as A stopping of the Stomach.

might be the Green-lickness, for as much as I finde few, or none, to have been returned upon that Accompt, although many be visibly stained with it. Now whether the same be forborn out of shame, I know not? For since the world believes, that Marriage cures it, it may seem indeed a shame, that any Maid should die uncured, when there are more Males then Females, that is, an overplus of Husbands to all that can be Wives.

28. In the next place I conjectured, that this stopping of the Stomach might be the Mother, for as much as I have heard of many troubled with Mother-fits (as they call them) although few returned to have died of them; which conjecture, if it be true, we may then safely say, That the Mother-fits have

also increased.

this stopping of the Stomach to be the Mother, because I guessed rather the Rising of the Lights might be it. For I remembred that some Women, troubled with the Mother-sits, did complain of a chooking in their Throats. Now as I understand, it is more conceivable, that the Lights, ot Lungs (which I have heard called The Bellows of the Body) not blowing, that is, neither venting out, nor taking in breath, might rather cause such a Chooking, then that the Mother should rise up thither, and do it. For me-thinks, when a woman is with childe, there is a greater rising, and yet no such Fits at all.

of the Stomach, I do in some measure say of the Riskets, and stopping E 2 Rising

Rising of the Lights also, viz. that these Risings (be they what they will) have increased much above the general proportion; for in 1629 there was but 44, and

in 1660, 249, viz. almost fix times as many.

31. Now for as much as Rickets appear much in the Over-growing of Childrens Livers, and Spleens (as by the Bills may appear) which furely may cause stopping of the Stomach by squeezing, and crowding upon that part. And for as much as these Choakings, or Risings of the Lights may proceed from the same stuffings, as make the Liver, and Spleen to over-grow their due proportion. And laftly, for as much as the Rickets, stopping of the Stomach, and rising of the Lights, have all increased together, and in some kinde of correspondent proportions; it seems to me, that they depend one upon another. And that what is the Rickets in children may be the other in more grown bodies; for furely children, which recover of the Rickets, may retain somewhat sufficient to cause what I have imagined; but of this let the learned Physicians confider, as I presume they have.

32. I had not medled thus far, but that I have heard, the first hints of the circulation of the Blood were taken from a common Person's wondering what became of all the blood which issued out of the heart, since the heart beats above three thousand times an hour, although but one drop should be

pumpt out of it, at every stroke.

33. The Stone seemed to decrease: for in 1632, 33, 34, 35, and 36. there died of the Stone, and Strangury, 254. And in the Years 1655, 56, 57, 58, 59, and 1660, but 250, which numbers although indeed

deed they be almost equal, yet considering the Burials of the first named five Years were but half those of the latter, it seems to be decreased by about one half.

34. Now the Stone, and Strangury, are diseases, which most men know, that feel them, unless it be in some few cases, where (as I have heard Physicians say) a Stone is held up by the Filmes of the Bladder, and so

kept from grating, or offending it.

35. The Gowt stands much at a stay, that is, it answers the general proportion of Burials; there dies not above one of 1000. of the Gowt, although I believe that more die Gowty. The reason is, because those that have the Gowt, are said to be Long-livers, and therefore, when such die, they are returned as Aged.

36. The Seurvy hath likewise increased, and that gradually from 12. Anno 1629. to 95. Anno 1660.

37. The Tyffick feems to be quite worn away, but that it is probable the same is entred as Cough, or Consumption.

38. Agues and Fevers are entred promiscuously, yet in the few Bills, wherein they have been distinguished, it appears, that not above one in 40, of the

whole are Agues.

39. The Abortives, and Stillborn are about the twentieth part of those that are Christned, and the numbers seem the same thirty Years ago as now, which shews there were more proportion in those Years then now: or else that in these latter Years due Accompts have not been kept of the Abortives, as having been Buried without notice, and perhaps not in Church-Yards.

40. For

40. For that there hath been a neglect in the Accompts of the Christnings is most certain, because untill the year 1642, we finde the Burials but equal with the Christnings, or near thereabouts, but in 1648, when the differences in Religion had changed the Government, the Christnings were but two thirds of the Burials. And in the year 1659, not half, viz. the Burials were 14720. (of the Plague but 36) and the Christnings were but 5670, which great disproportion could be from no other Cause, then that above-mentioned, for as much as the same grew as the Confu-

fions, and Changes grew.

41. Moreover, although the Bills give us in Anno 1659 but 5670 Christnings, yet they give us 421 Abortives, and 226 dying in Child-bed, whereas in the year 1631, when the Abortives were 410, that is, near the number of the year 1659, the Christnings were 8288. Wherefore by the proportion of Abortives Anno 1659, the Christnings should have been about 8500, but if we shall reckon by the women dying in Child-bed, of whom a better Accompt is kept then of Stil-borns, and Abortives, we shall finde Anno 1659, there were 226 Child-beds; and Anne 1631, 112, viz. not 1. Wherefore I conceive that the true number of the Christnings Anno 1659 is above double to the 5690 fet down in our Bills; that is about 11500, and then the Christnings will come near the same proportion to the Burials, as hath been observed in former times.

kept, we finde that not above three in 200 died in Child-bed, and that the number of Abortives was about treble to that of the women dying in Child-bed,

from whence we may probably collect, that not one woman of an hundred (I might fay of two hundred) dies in her Labour; for as much as there be other Causes of a woman's dying within the Moneth, then

the hardness of her Labour.

43. If this be true in these Countries, where women hinder the facility of their Child-bearing by affected straightning of their Bodies; then certainly in America, where the same is not practised, Nature is little more to be taxed as to women, then in Brutes, among whom not one in some thousands do die of their Deliveries: what I have heard of the Irish-women confirms me herein.

44. Before we quite leave this matter, we shall infert the Causes, why the Accompt of Christnings hath been neglected more then that of Burials: one, and the chief whereof was a Religious Opinion against Baptizing of Infants, either as unlawfull, or unnecessary. If this were the onely reason, we might by our defects of this kinde, conclude the growth of this Opinion, and pronounce, that not half the People of England, between the years 1650, and 1660, were con-

vinced of the need of Baptizing.

45. A second Reason was, The scruples, which many Publick Ministers would make of the worthiness of Parents to have their Children Baptized, which forced such questioned Parents, who did also not believe the necessity of having their Children Baptized by such scrupulers, to carry their Children unto such other Ministers, as having performed the thing, had not the Authority or command of the Resister to enter the names of the Baptized.

46. A third Reason was, That a little Fee was to

be paid for the Registrie.

47. Upon the whole matter it is most certain, that the number of Heterodox Believers was very great between the said year, 1650, and 1660, and so peevish were they, as not to have the Births of their Children Registred, although thereby the time of their coming of Age might be known, in respect of such Inheritances, as might belong unto them; and withall by such Registring it would have appeared unto what Parish each Childe had belonged, in case any of them should happen to want its relief.

48. Of Convulsions there appeared very few, viz. but 52 in the year 1629, which 1636 grew to 709, keeping about that stay, till 1659, though sometimes rising

to about 1000.

49. It is to be noted, that from 1629 to 1636, when the Convulsions were but few, the number of Chrysoms, and Infants was greater: for in 1629, there was of Chrysoms, and Infants 2596, and of the Convulsion 52, viz. of both, 2648. And in 1636 there was of Infants 1895, and of the Convulsions 709, in both 2604, by which it appears, that this difference is likely to be

onely a confusion in the Accompts.

50. Moreover, we finde that for these later years, since 1636, the Total of Convulsions and Chrysoms added together are much less, viz. by about 400 or 500, per Annum, then the like Totals from 1626 to 36, which makes me think, that Teeth also were thrust in under the Title of Chrysoms, and Infants, in as much as in the said years, from 1629 to 1639, the number of Worms, and Teeth, wants by about 400 per Annum of what we find in following years.

CHAP

CAP. IV.

Of the Plague.

1. DEfore we leave to discourse of the Casualties, we shall add fomething concerning that greatest Disease, or Casualty of all, The Plague.

There have been in London, within this Age, four Times of great Mortality, that is to fay, the years

1592, and 1592, 1603, 1625, and 1636. There died Annne 1592 from March to December -Whereof of the Plague — 11503

Anno 1593 — 17844

Whereof of the Plague — 10662

Christian the Soid was Christned in the faid year - 4021 Anno 1603 within the same space of time, were Buried — 37294 Whereof of the Plague — 30561 Anno 1625, within the same space, - 51758 Whereof of the Plague 35417 Anno 1636, from April to December - 23359 Whereof of the Plague ______ 10400

2. Now it is manifest of it self, in which of these years most died; but in which of them was the greatest Mortality of all Diseases in general, or of the Plague in particular, we discover thus. In the year 1592, and 1636, we finde the proportion of those dying of the Plague in the whole to be near near alike, that is about 10 to 23. or 11 to 25. or as about two to five.

3. In the year 1625, we finde the Plague to bear unto the whole in proportion as 35 to 51, or 7 to 10, that is almost the triplicate of the former proportion, for the Cube of 7, being 343, and the Cube of 10.

being 1000, the faid 343, is not \$. of 1000.

4. In Anno 1603. the proportion of the Plague to the whole was as 30 to 37. viz. as 4. to 5. which is yet greater then that last of 7 to 20. For if the Year 1625, had been as great a Plague-Year as 1603. there must have died not onely 7 to 10. but 8 to 10. which in those great numbers makes a vast difference.

5. We must therefore conclude the Year 1603, to

have been the greatest Plague-Year of this age.

6. Now to know in which of these 4. was the greatest Mortality at large, we reason thus,

7. From whence it appears, that Anno 1636. the Christnings were about 3. parts of the Burials. Anno

bove an eighth, so that the said two Years were the Years of greatest Mortality. We said that the year 1603, was the greatest Plague year. And now we say, that the same was not a greater year of Mortality then Anno 1625. Now to reconcile these two Positions, we must alledg, that Anno 1623, there was errour in the Accompts, or Distinctions of the Casualties; that is, more died of the Plague then were accompted for under that name. Which Allegation we also prove thus, viz.

8. In the said year 1625, there are said to have died of the Plague 35417, and of all other Diseases 18848, whereas in the years, both before and after the same, the ordinary number of Burials was between 7, and 8000. So that if we add about 11000. (which is the difference between 7, and 18) to our 35, the whole will be 46000, which bears to the whole 54000, as about 4, to 5, thereby rendering the said year 1625, to be as great a Plague-year as that of 1603, and no greater, which answers to what we proved before, viz. that the Mortality of the two Years was

equal.

9. From whence we may probably suspect that about \(\frac{1}{4}\). part more died of the Plague then are returned for such; which we further prove by noting, that Anno 1636. there died 10400. of the Plague, the \(\frac{1}{4}\). whereof is 2600. Now there are said to have died of all diseases that Year 12959. out of which number deducting 2600, there remains 10359, more then which there died not in several years next before and after the said year 1636.

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10. The

10. The next Observation we shall offer is, that the Plague of 1603. lasted eight Years. In some whereof there died above 4000, in others above 2000, and in but one less then 600: whereas in the Year 1624. next preceding, and in the year 1626. next following the faid great Plague-year 1625. There died in the former but 11, and in the latter but 134. of the Plague. Moreover in the said year 1625. the Plague decreased from its utmost number 4461 a week, to below 1000 within fix weeks.

11. The Plague of 1636. lasted twelve Years, in eight whereof there died 2000. per annum one with another, and never under 300. The which shews, that the Contagion of the Plague depends more upon the Disposition of the Air, then upon the Effluvia from

the Bodies of Men.

12. Which also we prove by the sudden jumps, which the Plague hath made, leaping in one Week from 118 to 927: and back again from 593 to 258: and from thence again the very next Week to 852. The which effects must furely be rather attributed to change of the Air, then of the Constitution of Mens bodies, otherwise then as this depends upon that.

13. It may be also noted, that many times other Pestilential Diseases, as Purple-Feavers, Small-Pox, &c. do forerun the Plague a Year, two, or three, for in 1622; there died but 8000. in 1623; 11000: in 24. about 12000: till in 1625 there died of all Diseases

above 54000.

CHAP. V.

Other Observations upon the Plague, and Casualties.

He Decrease, and Increase of People is to be reckoned chiefly by Christnings, because few bear children in London but Inhabitants, though others die there. The Accompts of Christnings were well kept, untill differences in Roligion occasioned some neglect therein, although even these neglects we must confess to have been regular, and proportionable.

2. By the numbers and proportions of Christnings,

therefore we observe as followeth, viz.

First, That (when from December, 1602, to March following, there was little, or no Plague) then the christnings at a Medium, were between 110, and 130 per Week, few Weeks being above the one, or below the other; but when from thence to July the Plague increased, that then the Christnings decreased to under 90.

Secondly, The Question is, Whether Teeming-women died, or fled, or miscarried? The later at this time, seems most probable, because even in the said space, between March, and July, there died not above twenty per Week of the Plague, which small number could neither cause the death, or flight of so many Women, as to alter the proportion 4 part lower.

3. Moreover, we observe from the 21 of July to

the 21 of Ottober, the Plague increasing, reduced the Christnings to 70 at a Medium, diminishing the above proportion, down to 3. Now the cause of this must be slying, and death, as well as miscarriages, and Abortions; for there died within that time about 25000, whereof many were certainly Women with childe, besides the fright of so many dying within so small a time might drive away so many others, as to cause this effect.

4. From December 1624, to the middle of April 1625, there died not above 5 a Week of the Plague one with another. In this time, the Christnings were one with another 180. The which decreased gradually by the 22 of September to 75, or from the proportion of 12 to 5, which evidently squares with our former Observation.

5. The next Observation we shall offer, is, The time wherein the City hath been Re-peopled after a great Plague; which we affirm to be by the second year. For in 1627, the Christnings (which are our Standard in this Case) were 8408, which in 1624 next preceding the Plague year 1625 (that had swept away above \$4000) were but 8299, and the Christnings of 1626 (which were but 6701) mounted in one year to the said 8408.

6. Now the Cause hereof, for as much as it cannot be a supply by Procreations; Ergo, it must be by new Affluxes to London out of the Countrey.

7. We might fortifie this Affertion by shewing, that before the *Plague*-year, 1603, the *Christnings* were about 6000, which were in that very year reduced to 4789, but crept up the next year 1604, to 5458, recovering

of 6504, about which proportion it stood till the

year 1610.

8. I say, it followeth, that, let the Mortality be what it will, the City repairs its loss of Inhabitants within two years, which Observation lessens the Objection made against the value of houses in London, as if they were liable to great prejudice through the loss of Inhabitants by the Plague.

CHAP. VI.

of the Sicklineß, Healthfulneß, and Fruitfulneß of Seasons.

I. T TAving spoken of Casualties, we come next to compare the fickliness, healthfulness, and fruitfulness of the several Years, and Seasons, one with another. And first, having in the Chapters aforegoing mentioned the several years of Plague, we shall next present the several other sickly years; we meaning by a fickly Year, fuch wherein the Burials exceed those, both of the precedent, and subsequent years, and not above 200 dying of the Plague, for fuch we call Plague-Years; and this we do, that the World may fee, by what spaces, and intervals we may hereafter expect fuch times again. Now, we may not call that a more fickly year, wherein more die, because such excess of Burials may proceed from increase, and access of People to the City onely. 2. Such 2. Such fickly years were 1618, 20, 23, 24, 1632, 33, 34, 1649, 52, 54, 56, 58, 61, as may be feen

by the Tables.

3. In reference to this Observation, we shall prefent another, namely, That the more fickly the years are, the less fecund, or fruitfull of Children also they be, which will appear, if the number of Children born in the faid fickly years be less, then that of the years both next preceding, and next following; all which, upon view of the Tables, will be found true, except in a very few Cases, where sometimes the precedent, and fometimes the subsequent years vary a little, but never both together. Moreover, for the confirmation of this Truth, we present you the year 1660, where the Burials were fewer then in either of the two next precedent years by 2000, and fewer then in the subsequent by above 4000. And withall, the number of Christnings in the said year 1660 was far greater then in any of the three years next aforegoing.

4. As to this year 1660, although we would not be thought Superstitious, yet is it not to be neglected, that in the said year was the King's Restauration to his Empire over these three Nations, as if God Almighty had caused the healthfulness and fruitfulness thereof to repair the Bloodshed, and Clamities suffered in his absence. I say, this conceit doth abundantly counterpoise the Opinion of those who think great Plagues come in with Kings reigns, because it hapned so twice, viz. Anno 1603, and 1625, whereas as well the year 1648, wherein the present King commenced his right to reign, as also the year 1650, wherein he commenced

the exercise of the same, were both eminently health full, which clears both Monarchie, and our presen King's Familie from what seditious men have surmised

against them.

5. The Diseases, which beside the Plague make years unhealthfull in this City, are Spotted Feavers, Small Pox, Dysentery, called by some The Plague in the Guts, and the unhealthfull Season is the Autumn.

CHAP. VII.

Of the difference between Burials, and Christnings.

The next Observation is, That in the said Bills there are far more Burials, then Christnings. This is plain, depending onely upon Arithmetical computation; for, in 40 years, from the year 1603, to the year 1644, exclusive of both years, there have been set down (as happening within the same ground, space, or Parishes) although differently numbered, and divided, 363935 Burials, and but 330747 Christnings within the 97, 16, and 10 out-Parishes, those of Westminster, Lambeth, Newington, Redriff, Stepney, Hackney, and Islington, not being included.

2. From this fingle Observation it will follow, That London hath decreased in its People, the contrary whereof we see by its daily increase of Buildings upon new Foundations, and by the turning of great Palacious Houses into small Tenements. It is therefore certain, that London is supplied with People from

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out of the Countrey, whereby not onely to repair the overplus difference of Burials above-mentioned, but likewise to increase its Inhabitants according to

the faid increase of housing.

3. This supplying of London seems to be the reason, why Winchester, Lincoln, and several other Cities have decreased in their Buildings, and consequently in their Inhabitants. The same may be suspected of many Towns in Cornwal, and other places, which probably, when they were first allowed to send Burgesses to the Parliament, were more populous then now, and bore another proportion to London then now; for feveral of those Burroughs send two Burgesses, whereas London it felf fends but four, although it bears the fifteenth part of the charge of the whole Nation in all Publick

Taxes, and Levies.

4. But, if we confider what I have upon exact enquiry found true, viz. That in the Countrie, within ninetie years, there have been 6339 Christnings, and but 5280 Burials, the increase of London will be salved without inferring the decrease of the People in the Countrie; and withall, in case all England have but fourteen times more People then London, it will appear, how the said increase of the Country may increase the People, both of London, and it self; for if there be in the 97, 16, 10, and 7 Parishes, usually comprehended within our Bills, but 460000 fouls as hereafter we shall shew, then there are in all England, and Wales, 6440000 Persons, out of which substract 460000, for those in, and about London, there remains 598 7000 in the Countrie, the which increasing about 7 part in 40 years, as we shall hereafter prove, doth happen

happen in the Countrie, the whole increase of the Countrie will be about 854000 in the said time, out of which number, if but about 250000 be fent up to London in the faid 40 years, viz. about 6,000 per Annum, the faid Missions will make good the alterations, which we finde to have been in, and about London, between the years 1603 and 1644 above-mentioned. But that 250000 will do the same, I prove thus, viz. in the 8 years, from 1603 to 1612, the Burials in all the Parishes, and of all Diseases, the Plague included, were at a Medium 9750 per Annum. And between 1635 and 1644 were 18000, the difference whereof is \$250, which is the Total of the increase of the Burials in 40 years, that is about 206 per Annum. Now, to make the Burials increase 206 per Annum, there must be added to the City thirty times as many (according to the proportion of 3 dying out of 41 Families) viz. 6180 Advenæ, the which number multiplied again by the 40 years, makes the Product 247200, which is less then the 250000 above propounded; fo as there remains above 600000 of increase in the Countrie within the faid 40 years, either to render it more populous, or fend forth into other Colonies, or Wars. But that England hath fourteen times more People, is not improbable, for the Reasons following.

1. London is observed to bear about the fifteenth

proportion of the whole Tax.

fquare Miles of Land, and we have computed that in one of the greatest Parishes in Hampshire, being also a Market-Town, and containing twelve square Miles, there are 220 souls in every square Mile, out

of which I abate \(\frac{1}{4}\) for the overplus of People more in that Parish, then in other wilde Counties. So as the \(\frac{1}{4}\) parts of the said 220, multiplied by the Total of square Miles, produces 6400000 souls in all London included.

10000

- 3. There are about 10000 Parishes in England, and Wales, the which, although they should not contain the 1 part of the Land, nor the 1 of the People of that Country-Parish, which we have examined, yet may be supposed to contain about 600 People, one with another, according to which Accompt there will be fix Millions of People in the Nation. I might add, that there are in England, and Wales, about five and twenty Millions of Acres at 16 1 Foot to the Perch; and if there be fix Millions of People, then there is about four Acres for every head, which how well it agrees to the Rules of Plantation, I leave unto others, not onely as a means to examine my Affertion, but as an hint to their enquiry concerning the fundamental Trade, which is Husbandrie, and Plantation.
- 4. Upon the whole matter we may therefore conclude, That the People of the whole Nation do increase, and consequently the decrease of Winchester, Lincoln, and other like places, must be attributed to other Reasons, then that of refurnishing London onely.
- 5. We come to shew, why although in the Country the Christnings exceed the Burials, yet in London they do not. The general Reason of this must be, that in London the proportion of those subject to die unto those capable of breeding is greater then

in the Countrey; That is, let there be an hundred Persons in London, and as many in the Country; we say, that if there be 60 of them Breeders in London, there are more then 60 in the Country, or else we must say, that London is more unhealthfull, or that it enclines men and women more to Barrenness, then the Country, which by comparing the Burials, and Christnings of Hackney, Newington, and the other Country-Parishes, with the most Smoaky, and Stinking parts of the City, is scarce discernable in any considerable degree.

6. Now that the Breeders in London are proportionally fewer then those in the Country arises from

these reasons, viz.

or to the Courts of Justice, and all Country-men coming up to bring Provisions to the City, or to buy Foreign Commodities, Manufactures, and Rarities, do for the most part leave their Wives in the Country.

2. Persons coming to live in Landon out of curiosity, and pleasure, as also such as would retire, and live

privately, do the fame, if they have any.

3. Such, as come up to be cured of Diseases, do

scarce use their Wives pro tempore.

4. That many Apprentices of London, who are bound seven, or nine years from Marriage, do often

stay longer voluntarily.

5. That many Sea-men of London leave their Wives behind them, who are more subject to die in the absence of their Husbands, then to breed either without men, or with the use of many promiscuously.

6. As for unhealthiness it may well be supposed,

that although seasoned Bodies may, and do live near as long in London, as elsewhere, yet new comers, and Children do not, for the Smoaks, Stinks, and close Air are less healthfull then that of the Country; otherwise why do sickly Persons remove into the Country Air? And why are there more old men in Countries then in London, per rata? And although the difference in Hackney, and Newington, abovementioned, be not very notorious, yet the reason may be their vicinity to London, and that the Inhabitants are most such that the London Air, before they withdraw thither.

7. As to the causes of Barrenness in London, I say, that although there should be none extraordinary in the Native Air of the place, yet the intemperance in feeding, and especially the Adulteries and Fornications, supposed more frequent in London then elsewhere, do certainly hinder breeding. For a Woman, admitting 10 Men, is so far from having ten times as many Children, that she hath none at all.

8. Add to this, that the minds of men in London are more thoughtfull and full of business then in the Country, where their work is corporal Labour, and Exercizes. All which promote Breedings, whereas

Anxieties of the minde hinder it.

CHHP. VIII.

Of the difference between the numbers of Males, and Females.

He next Observation is, That there be more Males then Females.

There have been Buried from the year 1628, to the year 1662, exclusive, 209436 Males, and but 190474 Females: but it will be objected, that in London it may indeed be so, though otherwise elsewhere; because London is the great Stage and Shop of business, wherein the Masculine Sex bears the greatest part. But we Answer, That there have been also Christned within the same time, 139782 Males, and but 130866 Females, and that the Country Accompts are consonant enough to those of London upon this matter.

2. What the Causes hereof are, we shall not trouble our selves to conjecture, as in other Cases, onely we shall defire, that Travellers would enquire

whether it be the same in other Countries.

3. We should have given an Accompt, how in every Age these proportions change here, but that we have Bills of distinction but for 32 years, so that we shall pass from hence to some inferences from this Conclusion; as first,

I. That Christian Religion, prohibiting Polygamy, is more agreeable to the Law of Nature, that is, the Law of God, then Mahumetism, and others, that allow

allow it; for one man his having many women, or wives by Law, fignifies nothing, unless there were

many women to one man in Nature alfo.

II. The obvious Objection hereunto is, That one Horse, Bull, or Ram, having each of them many Females, do promote increase. To which I Answer, That although perhaps there be naturally, even of these species, more Males then Females, yet artificially, that is, by making Geldings, Oxen, and Weathers, there are fewer. From whence it will follow, That when by experience it is found how many Ems (suppose twenty) one Ram will serve, we may know what proportion of male-Lambs to castrate, or geld, viz. nineteen, or thereabouts: for if you emasculate fewer, viz. but ten, you shall by promiscuous copulation of each of those ten with two Females, (in such as admit the Male after conception) hinder the increase so far, as the admittance of two Males will do it: but, if you castrate none at all, it is highly probable, that every of the twenty Males copulating with every of the twenty Females, there will be little, or no conception in any of them all.

III. And this I take to be the truest Reason, why Fones, Wolves, and other Vermin Animals that are not gelt, increase not faster then Sheep, when as so many thousands of these are daily Butchered, and very few of the other die otherwise then of themselves.

4. We have hitherto faid there are more Males, then Females; we say next, That the one exceed the other by about a thirteenth part; so that although more men die violent deaths then women, that is, more are flain in Wars, killed by mischance, drowned

at Sea, and die by the Hand of Justice. Moreover, more men go to Colonies, and travel into foreign parts, then women. And lastly, more remain unmarried, then of women, as Fellows of Colleges, and Apprentises, above eighteen, &c. yet the said thirteenth part difference bringeth the business but to such a pass, that every woman may have an Husband, without the allowance of Polygamy.

years, and a woman but five and twenty, which makes the Males to be as 550 to 325 Females, yet the causes above named, and the later marriage of the men,

reduce all to an equality.

6. It appearing, that there were fourteen men to thirteen women, and that they die in the same proportion also, yet I have heard Physicians say, that they have two women Patients to one man, which Assertion seems very likely; for that women have either the Green-sickness, or other like Distempers, are sick of Breedings, Abortions, Child-bearing, Sore-breasts, Whites, Obstructions, Fits of the Mother, and the like.

7. Now, from this it should follow, that more women should die then men, if the number of Burials answered in proportion to that of Sicknesses: but this must be salved, either by the alledging, that the Physicians cure those Sicknesses, so as few more die, then if none were sick; or else that men, being more intemperate then women, die as much by reason of their Vices, as the women do by the Insirmitie of their Sex, and consequently, more Males being born, then Females, more also die.

8. In the year 1642 many Males went out of

London into the Wars then beginning, in so much, as I expected in the succeeding year, 1643, to have found the Burials of Females to have exceeded those of Males, but no alteration appeared; for as much, as I suppose, Trading continuing the same in London, all those who lost their Apprentices had others out of the Countrey; and if any left their Trades, or Shops, that others forthwith succeeded them: for if employment for hands remain the same, no doubt but the number of them could not

long continue in disproportion.

9. Another pregnant Argument to the same purpose (which hath already been touched on) is, That although in the very year of the Plague, the Christnings decreased, by the dying and flying of Teemingwomen, yet the very next year after, they increased somewhat, but the second after, to as full a number as in the second year before the said Plague: for I say again, if there be encouragement for an hundred in London, that is, a Way how an hundred may live better then in the Countrey, and if there be void housing there to receive them, the evacuating of a th, or that number, must foon be supplied out of the Countrey; so as, the great Plague doth not lessen the Inhabitants of the City, but of the Countrey, who in a short time remove themselves from hence thither, so long, untill the City for want of receit and encouragement, regurgitates and fends them back.

10. From the difference between Males and Females, we see the reason of making Eunuchs in those places where Polygamy is allowed, the latter being

useless as to multiplication, without the former, as was said before in the case of Sheep and other Ani-

mals, usually gelt in these Countries.

ferves as well to promote increase as to meliorate the Flesh of those Beasts that suffer it. For that Operation is equally practised upon Horses which are not

used for Food, as upon those that are.

12. In Popish Countries where Polygamy is forbidden, if a greater number of Males oblige themselves to Calibate then the natural overplus or difference between them and Females amounts unto ; then multiplication is hindred; for if there be eight Men to ten Women, all of which eight men are married to eight of the ten Women, then the other two bear no Children, as either admitting no Man at all, or elfe admitting Men as Whores (that is more then one) which commonly procreates no more then if none at all had been used: or else such unlawfull Copulations beget Conceptions but to frustrate them by procured Abortions or secret Murthers, all which returns to the same reckoning. Now, if the same proportion of women oblige themselves to a single life likewife, then fuch obligation makes no change in this matter of encrease.

13. From what hath been faid, appears the reason why the Law is, and ought to be so strict against Fornications and Adulteries, for if there were universal liberty, the Increase of Man-kind would be but like

that of Foxes at best.

Powerfull but Rich, according to the number of their

their People (Hands being the Father, as Lands are the Mother, and Womb of Wealth) it is no wonder why states by encouraging Marriage, and hindering Licentiousness, advance their own Interest, as well as preserve the Laws of God from contempt, and Violation.

plus of Males there is this natural Bar to Polygamy: for in such a state Women could not live in that parity, and equality of expence with their Husbands,

as now, and here they do.

cannot maintain as splendidly three, as one; for he might, having three Wives, live himself upon a quarter of his Income, that is in a parity with all three, aswell as, having but one, live in the same parity at half with her alone: but rather, because that to keep them all quiet with each other, and himself, he must keep them all in greater aw, and less splendor, which power he having will probably use it to keep them all as low, as he pleases, and at no more cost then makes for his own pleasure; the poorest Subjects (such as this plurality of Wives must be) being most easily governed.

CHAP. IX.

Of the growth of the City.

1. IN the year 1593 there died in the ninety seven Parishes within the walls, and the sixteen without the walls (besides 421 of the Plague) 3508. And the next year 3478, besides 29 of the Plague: in both years 6986. Twenty years after, there died in the same ninety seven, and sixteen Parishes, 12110, viz. Anno 1614, 5873; and Anno 1615, 6237: so as the said Parishes are increased, in the said time, from seven to twelve, or very near thereabouts.

2. Moreover, the Burials within the like space of the next twenty years, viz. Anno 1634, and 1635, were 15625, viz. as about twenty four to thirty one: the which last of the three numbers, 15625, is much more then double to the first 6986, viz. the said Parishes have in fourty years increased from twenty

three to fifty two.

3. Where is to be noted, That although we were necessitated to compound the said ninety seven with the sixteen Parishes, yet the sixteen Parishes have increased faster then the ninety seven. For, in the year 1620, there died within the walls 2726, and in 1660 there died but 3098 (both years being clear of the Plague) so as in this sourty years the said ninety seven Parishes have increased but from nine to ten, or thereabouts, because the housing of the said.

Said ninety seven Parishes could be no otherwise increased, then by turning great Houses into Tene-

ments, and building upon a few Gardens.

4. In the year 1604, there died in the ninety feven Parishes 1518, and of the Plague 280. And in the year 1660, 3098, and none of the Plague, so as in sifty six years the said Parishes have doubled: Where note, that for a smuch as the said year 1604 was the very next year after the great Plague, 1603 (when the City was not yet re-peopled) we shall rather make the comparison between 2014, which died Anno 1605, and 3431 Anno 1659, choosing rather from hence to affert, that the said ninety seven, and sixteen Parishes encreased from twenty to thirty four, or from ten to seventeen in sifty four years, then from one to two in sifty six, as in the last aforegoing Paragraph is set down.

5. Anno 1605, there died in the fixteen out-Parishes 2974, and Anno 1659, 6988, so as in the fifty four years, the said Parishes have encreased from

three to feven.

6. Anno 1605 there died in the eight out-parishes, 960, Anno 1659, there died in the same scope of Ground, although called now ten Parishes (the Savoy, and Covent-Garden being added) 4301, so as the said Parishes have encreased within the said fifty four years, more then from one to four.

7. Moreover, there was Buried in all, Anno 1605, 5948, and Anno 1659 14720, viz. about two to five.

8. Having fet down the proportions, wherein we find the faid three great Divisions of the whole Pyle, call'd London, to have encreased; we come next to shew

what particuler Parishes have had the most remarkable share in these Augmentations, viz. of the ninty seven Parishes within the Walls the Increase is not very discernable, but where great houses formerly belonging to Noblemen before they built others neer White-hall, have been turned into Tenements, upon which Accompt Alhallows on the wall is encreased, by the conversion of the Marquess of Winchesters house, lately the Spanish Ambassadors, into a New street, the like of Alderman Freeman, and La Motte neer the Exchange, the like of the Earl of Arundells in Loathbury, the like of the Bishop of London's Palace, the Dean of Paul's, and the Lord River's house, now in hand, as also of the Dukes-Place, and others heretofore.

9. Of the fixteen Parishes next without the Walls, Saint Gile's Criplegate hath been most inlarged, next to that, Saint Olave's Southwark, then Saint Andrews Holbern, then White-Chappel, the difference in the rest.

not being confiderable.

nine, and before that eight, Saint Gile's, and Saint Martins in the fields, are most encreased, notwith standing Saint Pauls Covent-Garden was taken out of them both.

hence is, That the City of London gradually removes Westward, and did not the Royal Exchange, and London-Bridg stay the Trade, it would remove much faster, for Leaden-Hall-street, Bishops-gate, and part of Fan-church-street, have lost their ancient Trade, Grace-Church-street indeed keeping it self yet entire, by reason.

reason of its conjunction with, and relation to London-

Bridg.

12. Again, Canning-street, and Watlin-street have lost their Trade of Woollen-Dropery to Paul's Church-Yard, Ludgate-hill, and Fleet-street; the Mercery is gone from out of Lombard-street, and Cheapside, into Pater-Noster-

Row, and Fleet-freet.

13. The reasons whereof are, that the King's Court (in old times frequently kept in the City) is now always at Westminster. Secondly, the use of Coaches, whereunto the narrow streets of the old City are unsit, hath caused the building of those broader streets in Covent-Garden, &c.

14. Thirdly, where the Consumption of Commodity is, viz. among the Gentry, the vendors of the same

must feat themselves.

15. Fourthly, the cramming up of the voyd spaces, and gardens within the Walls, with houses, to the prejudice of Light, and Air, have made men Build new ones, where they less fear those inconveniencies.

ons hath disposed us to let our old Wooden dark houses fall to decay, and to build new ones, whereby

to answer all the ends above-mentioned.

Western Gate of the City, little Building was Westward thereof. But when Holborn began to encrease New-gate was made. But now both these Gates are not sufficient for the Communication between the Walled City, and its enlarged Western Suburbs, as dayly appears by the intolerable stops and embaresses of Coaches near both these Gates, especially Lud-gate.

CHAP. X.

Of the Inequality of Parishes.

Before we pass from hence, we shall offer to consideration the inequality of Parishes in, and about London, evident in the proportion of their respective Burials; for in the same year were Buried in Cripple-gate-Parish 1191, that but twelve died in Trinity-Minories, St. Saviour's Southwark, and Botolph's Bishop-gate, being of the middle size, as burying sive and 600 per Annum; so that Cripple-gate is an hundred times as big as the Minories, and 200 times as big as St. John the Euangelist's, Mary-Cole-church, Bennet's Grace-church, Matthew-Friday-street, and some others within the City.

2. Hence may arise this Question, Wherefore should this inequality be continued? If it be Answered, Because that Pastours of all forts, and sizes of Abilities, may have Benefices, each man according to his merit: we Answer, That a two hundredth part of the best Parson's learning is scarce enough for a Sexton. But besides, there seems no reason of any differences at all, it being as much Science to save

one fingle foul, as one thousand.

3. We encline therefore to think the Parishes should be equal, or near, because, in the Reformed Religions, the principal use of Churches is to Preach in: now the bigness of such a Church ought to be no greater, then that, unto which the voice of a Preacher

of middling Lungs will eafily extend; I fay, eafily,

because they speak an hour, or more together.

4. The use of such large Churches, as Paul's, is now wholly lost, we having no need of saying perhaps sifty Masses all at one time, nor of making those grand Processions frequent in the Romish Church; nor is the shape of our Cathedral proper at all for our Preaching Auditories, but rather the Figure of an Amphi-Theatre with Galleries, gradually over-looking each other; for unto this Condition the Parish-Churches of London are driving apace, as appears by the many Galleries every day built in them.

of Colman-street, Alhallows-Barking, Christ-Church, Black-Friers, &c. in each whereof die between 100 and 150, per Annum, then an hundred Parishes would be a fit, and equal Division of this great charge, and all the Ministers (some whereof have now scarce fourty pounds per Annum) might obtain a subsistance.

6. And lastly, The Church-Wardens, and Over-seers of the Poor might finde it possible to discharge their Duties, whereas now in the greater out-Parishes many of the poorer Parishioners through neglect do perish, and many vicious persons get liberty to live as they please, for want of some heedfull Eye to over-look them.

CHAP. XI.

Of the number of Inhabitants.

I Have been several times in company with men of great experience in this City, and have heard them talk seldom under Millions of People to be in London, all which I was apt enough to believe, untill, on a certain day, one of eminent Reputation was upon occasion afferting, that there was in the year 1661 two Millions of People more then Anno 1625, before the great Plague; I must confess, that, untill this provocation, I had been frighted with that missunders stood Example of David, from attempting any computation of the People of this populous place; but hereupon I both examined the lawfulness of making such enquiries, and, being satisfied thereof, went about the work it self in this manner: viz.

2. First, I imagined, That, if the Conjecture of the worthy Person afore-mentioned had any truth in it, there must needs be about six, or seven Millions of People in London now; but repairing to my Bills I found, that not above 1,000 per Annum were buried, and consequently, that not above one in four hundred must die per Annum, if the Total were but

fix Millions.

3. Next confidering, That it is esteemed an even Lay, whether any man lives ten years longer, I supposed it was the same, that one of any 10 might die within one year. But when I considered, that of the 15000

afore-mentioned about 5000 were Abortive, and Stilborn, or died of Teeth, Convulsion, Rickets, or as Infants, and Chrysoms, and Aged. I concluded, that of men, and women, between ten and sixty, there scarce died 10000 per Annum in London, which number being multiplied by 10, there must be but 100000 in all, that is not the 50 part of what the Alderman imagined. These were but sudden thoughts on both sides, and both far from truth, I thereupon endeavoured to get a

little nearer, thus: viz.

4. I confidered, that the number of Child-bearing women might be about double to the Births: for asmuch as fuch women, one with another, have scarce more then one Childe in two years. The number of Births I found, by those years, wherein the Registries were well kept, to have been somewhat less then the Burials. The Burials in these late years at a Medium are about 13000, and consequently the Christnings not above 12000. I therefore esteemed the number of Teeming women to be 24000: then I imagined, that there might be twice as many Families, as of fuch women; for that there might be twice as many women Aged between 16 and 76, as between 16 and 40, or between 20 and 44; and that there were about eight Persons in a Family, one with another, viz. the Man, and his Wife, three Children, and three Servants, or Lodgers: now 8 times 48000 makes 384000.

5. Secondly, I finde by telling the number of Families in some Parishes within the walls, that 3 out of 11 families per an. have died: wherefore, 13000 having died in the whole, it should follow, there were 48000 Families according to the last mentioned Accompt.

6. Thirdly

6. Thirdly, the Accompt, which I made of the Trayned-Bands, and Auxiliary Souldiers, doth enough

justify this Accompt.

7. And lastly I took the Map of London set out in the year 1658 by Richard Newcourt, drawn by a scale of Yards. Now I gueffed that in 100 yards square there might be about 54 Families, supposing every house to be 20 foot in the front: for on two sides of the faid fquare there will be 100 yards of houfing in each, and in the two other fides 80 each; in all 360 yards: that is 54 Families in each square, of which there are 220 within the Walls, making in all 11880 Families within the Walls. But for asmuch as there dy within the Walls about 3200 per Annum, and in the whole about 13000; it follows, that the housing within the Walls is 1 part of the whole, and confequently, that there are 47520 Families in, and about London, which agrees well enough with all my former computations: the worst whereof doth sufficiently demonstrate, that there are no Millions of People in London, which nevertheless most men do believe, as they do, that there be three Women for one Man, whereas there are fourteen Men for thirteen Women, as else where hath been faid.

8. We have (though perhaps too much at Random) determined the number of the inhabitants of London to be about 384000: the which being granted, we affert, that 199112 are Males, and 184886 Females.

9. Whereas we have found, that of 100 quick Conceptions about 36 of them die before they be fix years old, and that perhaps but one survivether

76, we, having seven Decads between six and 76, we sought six mean proportional numbers between 64, the remainder, living at six years, and the one, which survives 76, and sinde, that the numbers following are practically near enough to the truth; for men do not die in exact Proportions, nor in Fractions: from whence arises this Table following.

10. From whence it follows, that of the faid 100 conceived there remains alive at fix years end 64.

11. It follows also, that of all, which have been conceived, there are now alive 40 per Cent. above fixteen years old, 25 above twenty fix years old, & see deinceps, as in the above Table: there are therefore of Aged between 16, and 56, the number of 40, less by fix, viz. 34; of between 26, and 66, the number of 25 less by three, viz. 22: & sie deniceps.

Wherefore, supposing there be 199112 Males, and the number between 16, and 56, being 34. It follows, there are 34 per Cent. of all those Males fighting Men in London, that is 67694, viz. near 70000: the truth whereof I leave to examination, only the \frac{1}{3}. of 67694, viz. 13539. is to be added for Westminster, Step-

ney, Lambeth, and the other distant Parishes, making

in all 81 233 fighting Men.

the City of London shall, by the ordinary proportion of Breeding, and Dying, double its breeding People. I answer in about seven years, and (Plagues considered) eight. Wherefore since there be 24000 pair of Breeders, that is \$\frac{1}{8}\$. of the whole, it follows, that in eight times eight years the whole People of the City shall double without the access of Foreigners: the which contradicts not our Accompt of its growing from two to five in 56 years with such accesses.

viz. Adam and Eve, doubling themselves every 64 years of the 5610 years, which is the age of the World according to the Scriptures, shall produce far more People, then are now in it. Wherefore the World is not above 100 thousand years, old as some vainly. Imagine, nor above what the Scripture makes it.

CHAP. XII.

Of the Country Bills.

vations upon the Accompts of Burials, and Christnings, in, and about London; we shall next prefent the Accompts of both Burials, Christnings, and also of Weddings in the Country, having to that purpose inserted Tables of 90 years for a certain Parish in Hampshire, being a place neither famous for Longevity, and

and Healthfulness, nor for the contrary. Upon which

Tables we observe,

1. That every Wedding, one with another, produces four Children, and consequently, that that is the proportion of Children, which any Marriagable man, or woman may be presumed shall have. For, though a man may be Married more then once, yet, being once Married, he may die without any Issue at all.

2. That in this Parish there were born 15 Females for 16 Males, whereas in London there were 13 for 14, which shews, that London is somewhat more apt to produce Males, then the country. And it is possible, that in some other places there are more Females born, then Males, which, upon this variation of proportion, I again recommend to the examination of the curious.

3. That in the said whole 90 years the Burials of the Males and Females were exactly equal, and that in several Decads they differed not 150 part, that in one of the two Decads, wherein the difference was very notorious, there were Buried of Males 337, and of Females but 284, viz. 53 difference, and in the other there died contrariwise 338 Males, and 386 Females, differing 46.

4. There are also Decads, where the Birth of Males

and Females differ very much, viz. about 60.

5. That in the said 90 years there have been born more, then buried in the said Parish, (the which both 90 years ago, and also now, consisted of about 2700 Souls) but 1059, viz. not 12 per Annum, one year with another.

6. That these 1059 have in all probability contributed to the increase of London; since, as was said even

now, it neither appears by the Burials, Christnings, or by the built of new-housing, that the said Parish is more populous now, then 90 years ago, by above two or 300 fouls. Now, if all other places fend about 1 of their encrease, viz. about one out of 900 of their Inhabitants Annually to London, and that there be 14 times as many people in England, as there be in London, (for which we have given some reasons) then London encreases by such Advenæ every year above 6000: the which will make the Accompt of Burials to swell about 200 per Annum, and will answer the encreases. We observe it is clear, that the said Parish is encreased about 300, and it is probable, that three or four hundred more went to London, and it is known, That about 400 went to New-England, the Caribe-Islands, and New-found-Land, within these last fourty years.

years, there have been five Christnings for four Burials, although in some fingle Years, and Decads, there have been three to two, although sometimes (though more rarely) the Burials have exceeded the Births, as in the

case of Epidemical Diseases.

8. Our former Observation, That healthfull years are also the most fruitfull, is much confirmed by our Country Accompts; for, 70 being our Standard for Births, and 58 for Burials, you shall finde, that where fewer then 58 died, more then 70 were born. Having given you a few instances thereof, I shall remit you to the Tables for the general proof of this Assertion.

Viz. Anno 1633 when 103 were born, there died but 29. Now, in none of the whole 90 years more were born then 103, and but in one, fewer then 29 died, viz.

28 Anno 1658. Again Anno 1568, when 93 were born, but 42 died. Anno 1584, when 90 were born, but 41 died. Anno 1650, when 86 were born, but 52 died. So that by how much more are born, by fo much (as it were) the fewer die. For when 103 were born, but 29 died 2 but when but 86 were born, then 52 died.

On the other fide Anno 1638, when 156 died per Annum, which was the greatest year of Mortality, then less then the meer Standard 70, viz. but 66 were born. Again Anno 1644, when 137 died, but 59 were born. Anno 1597, when 117 died, but 48 were born. And Anno 1583, when 87 died, but 59 were born.

A little Irregularity may be found herein, as that Anno 1612, when 116 died (viz. a number double to our Standard 58 yet) 87 (viz. 17 about the Standard 70) were born. And that when 89 died 075 were born: but these differences are not so great, nor so often, as to evert our Rule, which besides the Authority of these Accompanies which have the secondary to the secondary that the secondary was a secondary to the secondary that the secondary was a secondary to the secondary that t

rity of these Accompts is probable in it self.

9. Of all the said 90 years the year 1638 was the most Mortal, I therefore enquired whether the Plague was then in that Parish, and having received good satisfaction that it was not (which I the rather believe, because, that the Plague was not then considerable at London) but that it was a Malignant Fever raging so siercely about Harvest, that there appeared scarce hands enough to take in the Corn: which argues, considering there were 2700 Parishioners, that seven might be sick for one that died: whereas of the Plague more die then recover. Lastly, these People lay long-

er fick then is usual in the Plague, nor was there any mention of sores, Swellings, blew-Tokens, &c. among them. It follows, that the proportion between the greatest and the least Mortalities in the Country are far greater then at London. For asmuch as the greatest 156 is above quintuple unto 28 the least, whereas in London (the Plague excepted, as here it hath been) the number of Burials upon other Accompts within no Decad of years hath been double, whereas in the Country it hath been quintuple not onely within the whole 90 years, but also within the same Decad : for Anno 1633. there died but 29, and Anno 1638 the above-mentioned number of 156. Moreover, as in London, in no Decad, the Burials of one year are double to those of another; so in the Country they are seldom not more then fo. As by this Table appears,

Decad	greatest	least number of Burials
1	66	34
2	87	39
2-	117	38
4	53	
5	116	
6	89	50
7	156	35
8	137	46
.0	80	28
oporcions a	rgillad ott i galant	Which

Which shews, that the opener, and freer Airs are most subject both to the good and bad Impressions, and that the Fumes, Steams, and Stenches of London do so medicate, and impregnate the Air about it, that it becomes capable of little more, as if the said Fumes rising out of London met with, opposed, and justled backwards the Insluences falling from above, or resisted the Incursion of the Country-Airs.

10. In the last Paragraph we said, that the Burials in the Country were sometimes quintuple to one another, but of the Christnings we affirm, that within the same Decad they are seldome double, as appears

by this Table, viz.

Decad	greatest	number of Burials
1	70-	50
-2	90 —	45
3	——— 7I —	52
	93-	
5	87-	——— 61
6	85	
7-	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN 2	66
8	——— 8 ₇ —	62
9-	86	52

Now, although the disproportions of Births be not so great as that of Burials, yet these disproportions are far

far greater then at London: for let it be shewn in any of the London Bills, that within two years the Christnings have decreased 1. or increased double, as they did Anno 1584, when 90 were born, and An. 1586, wherein were but 45: or to rise from 52, as Anno 1593, to 71, as in the next year 1594. Now, these disproportions both in Births, and Burials, confirm what hath been before Asserted, that Healthfulness, and Fruitfulness go together, as they would not, were there not

disproportions in both, although proportional.

11. By the Standard of Burials in this Parish, I thought to have computed the number of Inhabitants in it, viz. by multiplying 58 by 4, which made the Product 232, the number of Families. Hereupon I wondered, that a Parish containing a large Market-Town, and 12 Miles compass, should have but 232 Houses, I then multiplied 232 by 8, the Product whereof was 1856, thereby hoping to have had the number of the Inhabitants, as I had for London; but when upon enquiry I found there had been 2100 Communicants in that Parish in the time of a Minister, who forced too many into that Ordinance, and that 1500 was the ordinary number of Communicants in all times, I found also, that for as much as there were near as many under 16 years old, as there are above, viz. Communicants, I concluded, that there must be about 27, or 2800 Souls in that Parish: from whence it follows, that little more then one of 50 dies in the Country, whereas in London, it seems manifest, that about one in 32 dies, over and above what dies of the Plaque.

12. It follows therefore from hence, what I more faintly

Gaintly afferted in the former Chapter, that the Country is more healthfull, then the City, That is to fay, although men die more regularly, and less per Saltum in London, then in the Country, yet, upon the whole matter, there die fewer per Rata; so as the Fumes, Steams, and Stenches above-mentioned, although they make the Air of London more equal, yet

not more Healthfull.

venty are Born for fifty eight Buried, and that before the year 1600 the like happened in Lendon, I confidered, whether a City, as it becomes more populous, doth not, for that very cause, become more unhealthfull, I inclined to believe, that London now is more unhealthfull, then heretofore, partly for that it is more populous, but chiefly, because I have heard, that 60 years ago few Sea-Coals were burnt in London, which now are universally used. For I have heard, that Newcastle is more unhealthfull then other places, and that many People cannot at all endure the smoak of London, not onely for its unpleasantness, but for the suffocations which it causes.

14. Suppose, that Anno 1 769 there were 2400 souls in that Parish, and that they increased by the Births 70, exceeding the Burials 58, it will follow, that the said 2400 cannot double under 200. Now, if London be less bealthfull then the Country, as certainly it is, the Plague being reckoned in, it follows, that London must be doubling it self by generation in much above 200: but if it hath encreased from 2 to 5 in 54, as aforesaid, the same must be by reason of transplantation out

of the Country.

The Conclusion.

I T may be now asked, to what purpose tends all this laborious buzzling, and groping? To know,

1. The number of the People?

2. How many Males, and Females?
3. How many Married, and fingle?

4. How many Teeming Women?

5. How many of every Septenary, or Decad of years in age?

6. How many Fighting Men?

- 7. How much London is, and by what steps it hath increased?
- 8. In what time the housing is replenished after a Plague?

9. What proportion die of each general and perticular Casualties?

10. What years are Fruitfull, and Mortal, and in what Spaces, and Intervals, they follow each other?

of the Church, and Setts have increased?

12. The disproportion of Parishes?

13. Why the Burials in London exceed the Christnings, when the contrary is visible in the Coun-

To this I might answer in general by saying, that those, who cannot apprehend the reason of these Enquiries, are unfit to trouble themselves to ask them.

fpent their times, and estates about the Art of making Gold? which, if it were much known, would onely exalt Silver into the place, which Gold now possesses and if it were known but to some one Person, the same single Adeptus could not, nay, durst not enjoy it, but must be either a Prisoner to some Prince, and Slave to some Voluptuary, or else skulk obscurely up and down for his privacie, and concealment.

3. I might Answer; That there is much pleasure in deducing so many abstruse, and unexpected inferences out of these poor despised Bills of Mortality; and in building upon that ground, which hath lain waste these eighty years. And there is pleasure in doing something new, though never so little, without pestering the World with volumi-

nous Transcriptions.

4. But, I Answer more seriously; by complaining, That whereas the Art of Governing, and the true Politiques, is how to preserve the Subject in Peace, and Plenty, that men study onely that part of it, which teacheth how to supplant, and over-reach one another, and how, not by fair out-running, but by tripping up each other's heels, to win the Prize.

Now, the Foundation, or Elements of this honest harmless *Policy* is to understand the Land, and the hands of the Territory to be governed, according to all their intrinsick, and accidental differences: as for example; It were good to know the Geometrical Content, Figure, and Scituation of all

the Lands of a Kingdom, especially, according to its most natural, permanent, and conspicuous Bounds. It were good to know, how much Hay an Acre of every fort of Meadow will bear? how many Cattel the same weight of each fort of Hay will feed, and fatten? what quantity of Grain, and other Commodities the same Acre will bear in one, three, or seven years communibus Annis? unto what use each soil is most proper? All which particulars I call the intrinsick value: for there is also another value meerly accidental, or extrinfick, confifting of the Caufes, why a parcel of Land, lying near a good Market, may be worth double to another parcel, though but of the same intrinsick goodness; which answers the Queries, why Lands in the North of England are worth but fixteen years purchase, and those of the West above eight and twenty. It is no less necessary to know how many People there be of each Sex, State, Age, Religion, Trade, Rank, or Degree, &c. by the knowledg whereof Trade, and Government may be made more certain, and Regular; for, if men knew the People as aforefaid, they might know the confumption they would make, fo as Trade might not be hoped for where it is impossible. As for instance, I have heard much complaint, that Trade is not set up in some of the South-western, and Northwestern Parts of Ireland, there being so many excellent Harbours for that purpose, whereas in several of those Places I have also heard, that there are few other Inhabitants, but fuch as live ex sponte creatis, and are unfit Subjects of Trade, as neither employing L

employing others, nor working themselves.

Moreover, if all these things were clearly, and truly known (which I have but gueffed at) it would appear, how small a part of the People work upon necessary Labours, and Callings, viz. how many Women, and Children do just nothing, onely learning to spend what others get? how many are meer Voluptuaries, and as it were meer Gamesters by Trade? how many live by puzling poor people with unintelligible Notions in Divinity, and Philosophie? how many by perswading credulous, delicate, and Litigious Persons, that their Bodies, or Estates are out of Tune, and in danger? how many by fighting as Souldiers? how many by Ministeries of Vice, and Sin? how many by Trades of meer Pleasure, or Ornaments? and how many in a way of lazie attendance, &c. upon others? And on the other fide, how few are employed in raifing, and working necessary food, and covering? and of the speculative men, how few do truly studie Nature, and Things? The more ingenious not advancing much further then to write, and speak wittily about these matters.

I conclude, That a clear knowledge of all thefe particulars, and many more, whereat I have shot but at rovers, is necessary in order to good, certain, and easie Government, and even to balance Parties, and factions both in Church and State. But whether the knowledge thereof be necessary to many, or fit for others, then the Sovereign, and his chief Ministers, I

leave to confideration.

	-					
Anno Dom.	97 Parishes	16 Parishes	Out-Pa-	The second secon	Besides of the Plague	Christned
			708	4323	896	5458
1604	1518	2097		5948	444	6504
1605	2014	2974	960	5796	2124	6614
1606	1941	2920	935	5670	2352	6582
1607	1879	2772	1019		2262	6845
1608	2391	3218	1149	6758	4240	6388
1609	2494	3610	1441	7545 7486	1803	6785
1610	2326	3791	1369	6716	627	7014
1611	2152	3398	1166		THE PARTY NAMED	
D. H. S.	16715	24780	8747	50242	14752	521.00
1612	2473	3843	1462	7778	64	6986
1613	2406	3679	1418	7503	16	6846
1614	2369	3504	1494	7367	22	7208
1615	2446	3791	1613	7850	37	7682
1616	2490	3876	1697	8063	9	7985
1617	2397	4109	1774	8280	6	7747
1618	2815	4715	2066	9596	18	7735
1619	2339	3857	1804	7999	9	8127
17.00	19735	31374	13328	64436	171	60316
1620	2726	4819	2146	9691	21	7845
1621	2438	3759	1915	8112	II	8039
1622	2811	4217	2392	8943	16	7894
1623	3591	4721	2783	11095		7945
1624	3385	5919	2895	12199	II	8299
1625	5143	9819	3886	18848	35417	
1626	2150	3286	1965	7401	134	
1627	2325	3400	1988	7711	4	8408
0003	24569		19970	84000	3563	The Real Property lies
1628	2412	3311	2017	7740	3	8564
1629	2536		2243	8771		THE RESERVE TO SHARE THE PARTY OF THE PARTY
1630	2506	4201	2521	9237	131	7 9315
1631			2132	8288	274	8524
1632				9527	8	The state of the s
1633		3936	2078	8392	- 0	9997
1634	2937	-0-	2982	1089	19 I	9855
163		1		1650	I C	1003
TO REAL	2069	NAME OF TAXABLE PARTY.	THE RESERVE TO SHAPE	metallical formation and the later		3 75774
1				T. 2		7

Anno	97	16	Out-Pa-	Buried	Besides of	Christnes
Dom.	Parishes	Parishes	rishes	in all	the Plague	Chrime
1636 1	2825	6924	3210	12959	10400	9522
1637	2288	4265	2128	8681	3082	9160
1638	3584	5926	375I	13,261	363	10311
1639	2592	4344	2612	9548	314	10150
1640	2919	5156	3246	11321	1450	10850
1641	3248	5092	3427	11767	1375	10670
1642	3176	5245	3578	11999	1274	10370
1643	3395	5552	3269	12216	996	9410
	23987	42544	25221	91752	19244	80443
1644	2593	4274	2574	9441	1492	8104
1645	2524	4639	2445	9608	1871	7966
1646	2746	4872	2797	10415	2365	7163
1647	2672	4749	3041	10462	3597	7332
1648	2480	4288	2515	9283	611	6544
1649	2865	4714	2920	10499	67	5825
1650	2301	4138	2310	8749	15	5612
1651	2845	5002	2597	10804	23	6071
	21026	36676	21199	78896	10041	\$4617
1652	3293	5719	3546	12553	16	6128
1653	2527	4635	2919	10081	6	
1654	3323	6063	3845	13231	16	6155
1655	2761	5148	3439	11348	9	6620
1656	3327	6573	4015	13915	6	7004
1657	3014	5646	3770	12430	4	7050
1658	3613	6923	4443	14979	7 14	6170
1659	3431	6988	4301	14720	36	5690
	25288	47695	30278	103261	107	
1660	3098	5644	3926	12668	STATE OF THE PARTY	51502
1661	3804	7309	5532	16645	13	6971
1000				10043	20	8855
-52-2.5	TR' AST	To he				
				O SALES		
			2802			

77 The Table of Males and Females for London.

77 The Lable of Males and Females for London. An Dom Ruried Christned						
An. Dom.		ried		emales.		
	Males	Females	The state of the s	The second livery with		
1629	4668	4103	5218	4683		
1630	5660	4894	4858	4457		
1631	4549	4013	4422	4102		
1632	4932	4603	4994	4590		
1633	4369	4023	5158	4839		
1634	5676	5224	5035	4820		
1635	5548	5103	5106	4928		
1636	12377	10982	4917	4605		
Sept. 18	47779	43945	39708	37024		
1627	6392	5371	4703	1 4457		
1637	7168	6456	5359	4952		
1639	5351	4511	5366	4784		
1640	6761	6010	5518	5332		
Total	73451	65293	60664	56549		
The second secon	6872	6270	1 5470	5200		
1641	7049	6224	5460	4910		
1642	6842	6360	4793	4617		
1643	5659	5274	4107	3997		
1644	6014	5465	4047	3919		
1645	6683	6097	3768	3395		
1646	73 13	6746	37.96	3536		
1647	5145	4749	3363	3181		
1648	51577	47185	34804	32759		
	5454	5112	3079	2746		
1649	4548	4216	2890	2722		
1650	5680	5147	3231	2840		
1651	6543	6026	3220	2908		
1652	5416	4671	3196	2959		
1653	6972	6275	3441	3179		
1654	6027	5330	3655	3349		
1655	7365	6556	3668	3382		
1656	44005	41333	26380	24085		
	6578	5856	1 3396	3289		
1657	7936	7057	3157	3013		
1658	7451	7305	9209	2781		
1659	7960	7158	3724	3247		
1660_	29925	27376	13186	12330		
Total	198952	1 181 187		126759		
1000		L	Name and Address of the Owner, where the Party of the Owner, where the Party of the Owner, where the Owner, while the Owner, while the Owner, where the Owner, while the Owner,	Th		

The Table by Decads of years for the Country-Parish.

		Chris	stened.		Bu	ried.	TO S
Decads of years	Married	Males	Fem.	Both	Males	Fem.	Both
15 569	190	312	302	614	214	221	435
15 279	185	328	309	637	287	302	589
15 589	175	342	274	616	337	284	621
1 { 599 608	181	366	377	743	249	219	468
16 18	197	417	358	775	338	386	724
16 528	168	368	373	741	305	306	611
16 8 38	153	418	413	831	317	319	636
16 2 48	137	351	357	708	375	383	758
16 258	182	354	320	674	218	220	438
	1568	3256	3083	6339	2640	2640	5280

The Table of the Country-Parish.

					-			-
	Commu-	Wed-	C	hristn		-Villan	Eurie	THE STATE OF
Years	nicants	dings	M.	F.	Both	M.	F.	Both
	1 2	14	38	301	68	23	21	44
1569	1			32	61	21	25	46
1570		19	29	26		23	27	50
1571			1000		54	20	14	
1572		23	32	32	54	TO DESCRIPTION OF	13	34
1573		21	34	36	70	24		37
1574		16	21	29	50	28_	38	66
1575		1 24	37	29	66	15	19	34
1576	1 7 1	22	33	37	70	16	18	34
1577	153.1	13	29	26	55	19	21	40
1578	1 66	20	31	35	66	25	25	50
stole.	E 1748]	190	312	302	614	214	221	435
The second								
1579		15	35	36	171	27	27	54
80		21	43	31	74	38	41	79
81		29	29	33	62	34	24	58
82	-	22	28	29	57	18	21	39
83	1 6	22	32	27	59	35	52	87
84	18	15	46	144	90	22	19	41
85	200	15	26	21	47	15	27	42
86	4 - 46	18	22	23	45	24	37	61
87	E 1 18	13	34	31	65	43	36	79
1588	91 B. ES.	15	33	34	1 67	31	18	49
1				1200	162-	108-	1 202	-
Bosto	219 [21	110)	1340	1309	1037	120/	302	1200

The Table of Males and Females

J. S.	Commu-			hrift	ned		Eurie	d
Years	nicants	dings	M.	F.	Both	M.	F.	Both
1589		20	31	27	58	28	16	44
90	EST IS	16	40	29	69	36	21	57
91	100	12	37	28	65	35	30	65
92	Later Col.	14	40	25	65	28	19	47
93	1	20	32	20	52	33	32	65
94	10-31-31	24	34	37	71	16	22	38
95	TO BEE	16	32	28	60	33	28	61
96		9	36	26	62	42	29	71
97	i de la	23	23	25	48	53	64	117
98	1 22	21	37	1 29	66	33	23	66
		175	111					
1599		19	45	31	176	21	1 22	1 43
600		16	26	34	60	20	26	46
601		16	39	32	71	18	12	30
602		14	31	32	63	29	18	47
603		12	31	38	69	32	39	71
604		21	42	35	77	26	27	53
604		20						100000
605		19	47	34	81	21	12	33
606		19	29	41	70	28	23	33
606		19 27	29 36	41	70 83	28		and the second second
606		19 27 17	29 36 40	41 47 53	70 83 93	28 33 21	23 19 21	51 52 42
606		19 27	29 36 40	41 47 53	70 83 93	28 33 21	23 19 21	51 52 42

The	Table	of A	Tales	and	Females.
TIND	Tenner	O I	FMANA	CALCOP	T CLISCALCO .

		C	hriftr	ned		Bury	ed
Years	Weddings	M.	F.	Both,	M.	F.	Both
1609	23	30	31	61	24	4E	65
10	19	46	30	76	33	40	73
II	25	40	41	81	41	1 32	7 3
12	20	55	32	87	53	63	116
13	24	41	133	74	47	41	88
14	25	50	35	185	27	1 36	63
15	22	35	48	83	28	36	64
16	14	38	36	74	27	41	68
17	17	45	31	76	1 35	28	63
1618	8	37	41	78	23	1 28	1 51
					-		
	197	417	358	775	338	386	72
	No. of the last					TO BE	
1619 1	21	137	43	1 80	1 26	1 28	1 54
20	20	34	51	85	1 18	30	48
21	21	31	37		28	, 36	64
22	23	45			20	26	46
23	14	4 40	36		56	31	87
24	19	30	33		29	35	64
25	101 L	7 37	4		36	20	
26		9 30	35		21	29	
27	I	8 4			24		53
1628	I	6 3	9 30	51 75	1 47	1 42	89
	40	1 - 6	01	3 741		5 30	1 6

82	The Lable	of ti	be Cor	intry-1	Pariss.		
			Chris	fined		Bur	ied
Years	Weddings	M.	F.	Both	. M.	F.	Both
1629	22	53	1 38	91	46	28	74
30		58	45	103	26	27	53
31	the state of the s	42	29	71	26	33	59
32		43	50	93	15	21	36
33	12	38	65	103	18	II	29
1 34	23	30	45	75	18	. 26	44
35		39	32	71	18	17	35
36	15	0	37	187	42	48	90
37		35	36	71	25	35	60
1638		30	36	66	83		156
	153 4	18	413	831	317	319	636
1639	. 18	24	31	155 1	48	66	114
40		44	41	85	35	39	74
41	2.1	341	39	63	34	36	70
42	2.1	48	39	87	32	29	61
43	8	30	42	72	59	28	87
44	16	33	26	59	65	72 .	137
45 1	IO .	43	41	84	28	29	57
46		32	35	67	24	32	5.6
47	12 2	28	46	74	25	21	46
48	91	35	27	621	25	31	56
	137 3	51	357	708	375	383	758
1649	9 :	221	37	59	46	34	80
50	9 5	55	31	86	25	27	52
51		25	27	52	11	21	32
52		4	28	62	20	25	45
53	9 4	17	24	71	21	14	35
54		4	37	71	14	25	39
55		5	34	69	28	19	47
56		0	30	70	18	15	33
57		3	43	66	22	25	47
58		9	29	68	13	15	28
12	182 3	54	320	674	218	220	438
Control of the last		-			1		

Advertisements



Advertisements for the better understanding of the several Tables: videlicet,

Concerning the Table of Casualties consisting of thirty Columns.

He first Column contains all the Casualties happening within the 22 single years mentioned in this Bill.

The 14 next Columns contain two of the last septenaries of years, which being the latest are first set down.

The 8 next Columns represent the 8 sirst years, wherein the Casualties were taken notice off.

Memorandum, That the 10 years between 1636 and 1647 are omitted as containing nothing Extraordinary, and as not confistent with the Incapacity of a Sheet.

The 5 next Columns are the 8 years from 1629 to 1636 brought into 2 Quaternions, and the 12 of the 14 last years brought into three more; that Comparison might be made between each 4 years taken together, as well as each single year apart.

The

The next Column contains 3 years together, taken at 10 years distance from each other; that the distant years, as well as consequent, might be compared with the whole 20, each of the 5 Quaternions, and each of the 22 single years.

The last Column contains the total of the 15 Qua-

ternions, or 25 years.

The Number 229250 is the total of all the Burials in the said 20 years, as 34190 is of the Burialsin the said 3 distant years. Where note that the i of the latter total is 11396 and the i of the former is 11462; differing but 66 from each other in so great a sum, videlicet scarce in part.

The Table of Burials, and Christnings, consisting of 7 Columns.

T is to be noted, that in all the several Columns of the Burials those dying of the Plague are left out, being reckoned all together in the fixth Column. Whereas in the original Bills the Plague, and all other diseases are reckoned together, with mention how many of the respective totals are of the Plague.

Secondly, From the year 1642 forwards the accompt of the Christnings is not to be trusted, the neglects of the same beginning about that year: for in 1642 there are set down 10370, and about the same Number several years before, after which time the said Christnings decreased to between 5000 and 6000 by omission of the greater part.

Thirdly, The several Numbers are cast up into Otto-

naries, that Comparison may be made of them as as well as of single years.

The Table of Males, and Females, contaning 5 Columns.

First, The Numbers are cast up for 12 years; videlicet from 1629, when the distinction between Males and Females first began, untill 1640 inclusive when

the exactness in that Accompt ceased.

Secondly, From 1640 to 1660 the Numbers are cast up into another total, which seems as good for comparing the Number of Males with Females, the neglect being in both Sexes alike, and proportionable.

The Tables concerning the Country-Parish, the former of Decads beginning at 1569, and continuing untill 1658, and the latter being for fingle years, being for the same time, are so plain, that they require no further Explanation then the bare reading the Chapter relating to them, &c.

Errata. Pag. 8. lin. 22. read 1632.pag.21.din.19. 1.229250. p.26.lin.27. 1.314.p.29.lin. 28. r. seemed. lin.29.in proportion.p.32.l.14.r. which in p.35.l.29.t. other.p.40.l.26. r. calamities.p.41. l.23.t. should have p.45.l.17.t. II.p.44.l.6. r. 10000.p.48.l.16,17.dele all within the Parenthesis.p.47.l.22.r. difference.p.65.l.12.t. It.pag. 78, and 79 t. Gountry- Parish.

