

Hints respecting the distresses of the poor / By Dr. Lettsom.

Contributors

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H I N T S

RESPECTING THE

D I S T R E S S E S

OF THE

P O O R.

BY DR. LETTSOM.

THE SECOND EDITION.

L O N D O N :

PRINTED FOR C. DILLY.

==
1796.

[PRICE ONE SHILLING AND SIXPENCE.]

H I N T S

RESPECTING THE

D I S T R I B U T I O N



P O R T

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THE SECOND EDITION.

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P R E F A C E

TO THE

SECOND EDITION.

THE feverity of the winter of 1794-5, added to the increased expenses of every article of subsistence, and particularly of bread, induced the author to lay the following Hints before the publick, with the view of alleviating the prevailing distresses of the poor.

These however still continue, the re-publication, therefore of these Hints, may be as useful as heretofore ; and indeed from the present circumstances of the times, they may continue to be useful long after the author

shall cease to be so. Although the restoration of peace, and better crops of corn, may afford some melioration of distress, yet a degree of it, much greater than what the poor ever experienced prior to the war, will most probably be severely felt. About four millions a year, must be annually raised upon the publick, more than was paid antecedently to this dreadful scourge of human kind. Taxes may primarily be laid on articles of luxury, or on the opulent, but ultimately the burthen becomes felt by the whole community; the great mass of which forming the chief consumers pay the principal share of every impost.

If the equipages and horses of the great land-owners, be highly taxed, these will be induced to raise the rental of their estates; or if the wine-merchant pay an increased duty for his liquor, the price of it by retail will at least be proportionally greater; and the same ratio must eventually result in every article of consumption.

Many means have been suggested in late publications to alleviate the present and avert the future distresses of the poor: those that appeared most conducive to these important ends, are mentioned at the end of this preface, or referred to in notes which will enable the reader to consult the writers at large, at the same time the size of this tract is thereby very little augmented.

Among other means of utility, enclosures of commons have been of late much recommended; and as improvement of land increases its product, the community at large must thereby ultimately reap the benefit, more especially should farms of moderate extent be encouraged. The poor in the vicinity of these commons, will perhaps be the only immediate sufferers. In some enclosures it has been stipulated that the poor who have a right to commonage, should have a piece of land equivalent to this usage; but this affords merely a temporary relief, as distress, or the desire of immediately possessing a little money, which is usually

soon dissipated, may induce them to sell their little portion, which when gone, leaves them more distressed than they were originally. In lieu therefore, of introducing a temptation which few poor men can withstand, an adequate aid should be substituted of clothing, firing, or other useful *permanent* provision, and this aid might be increased, with the increase of children: but no batchelor in health should participate of any fund, as long as indigence is rendered more poignant by the addition of children.

It might be a desirable object in the enclosure of commons, to allot a certain portion to the clergy instead of tythes; that no impediment or discouragement may exist to the growth of corn; indeed it must be satisfactory to the clergy, as well as to the laity holding impropriations, could some substitute be found for them, if they must be continued. They afford a source of litigation, and of disgust to the established religion, and oftentimes of ruinous expenses or imprisonment to individuals.

Were

Were the proprietors of estates, whose lands are liable to be tythed, allowed to redeem or purchase the tythes at a fair valuation, a fund would probably be raised sufficient to buy land in the vicinity of church-livings of adequate income; or until land could be purchased, the product invested in government securities, for the maintenance of the clergy in lieu of tythes.

A small tax on all benefices of one hundred pounds value, the incumbent being a batchelor, or of 200l. value if married, rising gradually in proportion to the income, added to this fund, would sooner perfect the plan proposed, and even prove sufficient to raise the stipends of the poor clergy, some of whom, like day-labourers, cannot suitably provide for a wife and children.

The tax on horses, mentioned in the note on the 10th page, might be so extended, as to discourage useless ones, and afford premiums to promote the employment of oxen for draught. Encouragement should at the same

time be given to inland navigations, which open new channels of easy communication, and of transportation of heavy articles, and thereby lessen the necessity for horses, whilst they form a constant source of healthy employment to the poor, and of true national prosperity to the state.

Late

*Late Publications on the Means of alleviating
the Distresses of the Poor.*

“ **O**N the best Method of providing for the Poor, by W. M.” “ And Twenty Minutes Observations on a better Method of providing for the Poor, by Mr. Richard Pew, F. R. S. E.” Bath Memoirs, vol. vi. p. 208, 219.

“ A Short Address to the Public on the Monopoly of Small Farms, by Thomas Wright, of Mark Lane, 1795.” Price 6d.

This author purposes to remedy the evil complained of, by instituting a society, to subscribe for the purchase of large estates, and to let them out into smaller ones.

“ One

“ One Cause of the present Scarcity of Corn, &c.” by a Physician, 1795.

He slightly glances at the injury from large farms, but principally censures the loss and inconvenience experienced by farmers from being compelled to grow such articles only, and in such quantities, as the landlord, or rather his steward shall prescribe to him.

“ An Address to the different Classes of Persons in Great Britain, on the present Scarcity and High Price of Provisions,” by the Rev. Septimius Hodson, M. B. London 1795. price 1s. 6d.

The preacher gives a statement of the high price of corn and provisions in different periods, and states that the late crops have been deficient: hence he infers that the present scarcity is *totally independent of the war*, and exculpates the ministers from the least censure. Adding admonition to the poor and distressed to acquiesce in the dispensation of Providence, and to *submit to the ruling powers*.

“ Thoughts

“ Thoughts on the most safe and effectual Mode of relieving the Poor during the present Scarcity.” London, 1795, price 6d.

The author advises a reduction in the use of bread among all classes ; and censures the plan of selling bread to the poor at reduced prices, as thereby they consume more, and consequently increase the real scarcity. He advises the use of substitutes, and that the poor should be furnished with other articles rather than bread.

“ A Letter to Sir T. C. Bunbury, Bart. on the Poor Rates, and the High Price of Provisions, by a Suffolk Gentleman.” 1795, price 1s.

See the note respecting this judicious performance, p. 9th.

“ A Letter to the Right Honourable Mr. Pitt on the Use of Hair Powder,” by Mr. Donaldson, 8vo. 1795.

The principal object of this writer is explained, p. 18th.

“ On

“ On the Necessity of adopting some Measures to reduce the present Number of Dogs, by the Rev. Edward Barry, M.D. 8vo. 1s.

The doctor calculates the annual value of the keep of dogs at 2,080,000l. and that a tax of five shillings on each dog, would produce a revenue of 400,000l. per annum, or at the least a fourth part of that sum. See note, page 7th.

“ The Case of Labourers in Husbandry stated and considered,” by the Rev. David Davies, 4to. 1795, 12s.

This useful work clearly demonstrates that the pay of labourers, having families, is inadequate to their support. See note, p. 4th.

“ Remarks on the Present Times, &c.” by James M'Phail, London, 1795.

The principal part of this pamphlet is employed on political matters. The author concludes with a table of the quantities of
corn

corn and grain, exported from, and imported into, England and Scotland for 23 years, from 1770 to 1794, with the bounties and drawbacks paid, and the duties received thereon, together with the average price of corn in England under each year.

“ Count Rumford’s experimental Essays. Essay I.—An Account of an Establishment for the Poor at Munich.” London, 1795.

This excellent essay should be perused by every magistrate, and by every manager of work-houses and poor-houses, as much useful information may be collected from the detail of various publick measures, connected with the institutions, which have been adopted and carried into effect in that city, for putting an end to mendicity, and introducing order, and useful industry, among the more indigent inhabitants of Bavaria. Compare the account of the management of the poor in Hamburgh.

Upon the distressed state of the poor, and the means of meliorating it, at the same
time

time of lessening the Poor Rates, perhaps no person has devoted more laudable attention than Sir Mordaunt Martin, Bart.

His observations have not yet been published, but long before the present hard times, they had been in the possession of those, whose political powers alone can give them due effect.

“ Some Information respecting the Use of Indian Corn, &c.” 8vo. 1s. Baldwin, 1795.

This is a judicious compilation, and the salubrity of Indian Corn is fully ascertained; but the price of it, is at this time higher than that of flour. Of its great utility, the author of these *Hints*, informed the publick, in an essay entitled, “ Observations on Bread-Flour,” printed in the Monthly Ledger, vol. i. p. 397, anno 1773, when the Colonies were united to Great Britain. Since this period, the duties on their imports are rated as those of aliens, which has rendered Indian
Corn

Corn too dear for common domestic use. Were the government of this country to suspend these duties, the author of the "Observations on Bread-Flour," would reprint them for the benefit of the publick.

"Account of the Experiments tried by the Board of Agriculture, in the Composition of various Sorts of Bread." 1795, 4to. price 1s.

Some useful hints are communicated in this account, *on the composition of various sorts of bread*; as well as on the best mode of preparing different kinds of grain for food. The result, however, of the compositions of them, are condensed in one point of view in the annexed table, page 71.

There has been for some time a
great deal of discussion in the
country as to the propriety of
imposing duties on the importation of
"Observations on Bread-Low", would re-
sult in a benefit to the publick.

Account of the Experiments made by
the Board of Agriculture, in their opinion
of various sorts of bread." 1795. 4to.

Some of the things are commended in
this account, on the composition of
kinds of bread; as well as on the best mode of
preparing different kinds of grain for food.
I think, however, of the compositions of
them, are contained in one part of view
in the annexed table, page 71.

It is to be observed, that the
above account, is a very good one,
and that the experiments were made
with great care and accuracy.
The author is to be commended
for his industry and diligence.

H I N T S

RESPECTING THE

DISTRESSES OF THE POOR.

NOTHING contributes more effectually to the establishment of good government among the middle and lower ranks of the community, than that species of equality which enables every man by his industry to procure, at all times, the necessaries of life. Without entering at present, into the sources of those difficulties, which the poor, even the industrious poor, of this country labour under, it must be obvious to every considerate person, who is placed in a situation superior to this class of the community, and who minutely calculates his own expenses, that, with the utmost industry, the labouring man must

find extreme difficulty to preserve his family from the miseries of real want, not only of the comforts, but even of the necessaries of life. Many labouring men do not earn above eight shillings a week, whilst some individuals will earn a guinea; but happy is the labourer who, upon an average, makes half-a-guinea a week, or twenty-six guineas a year; and many of the poor have a wife and four or five children to maintain. I know it is often urged, that the poor are improvident, and never avail themselves of opportunities of saving a pittance to provide against times of difficulty; such as, being out of work, visited with sickness, or assailed by the rigours of winter. I acknowledge that too many come under this description, but let it be remembered, that one drunken or profligate man makes more noise, and becomes more conspicuous, than a thousand starving, modest, industrious, and worthy persons; as one eclipse of the sun attracts more observation than the annual brightness of this luminary: and cruel would it be, as it is unjust, to censure a whole class for the misconduct of a few individuals. With equal justice

justice

justice might the whole female sex be censured for infidelity; because a few worthless women of rank, acquire more notoriety by misconduct, than a thousand of the most amiable women by their virtues: for true worth seeks obscurity rather than publicity; and I will venture to add, that female virtue and chastity of manners never prevailed at any one period in this kingdom, more than at the present time.

To return to the state of the poor: let him who censures their improvidence, reflect upon his own expenses, ask himself what he expends on coals, on clothes, on washing, on house-rent; nay, let him only calculate what he spends for bread alone, an article in which there is rarely much waste; and he will then wonder how a poor man, with half-a-guinea a week, feeds and clothes a family, pays rent for his apartment, buys a few coals, and contrives to exist. This wonder will be increased, if he take into consideration, that by exposure to all weather sickness often supervenes, and every resource is, in a moment, annihilated. I shudder whilst I reflect what a dreadful

A 2

prospect

prospect is presented to a tender wife and famished children! Against such may the hand of affluence never be shut! And if ever there existed a nation more humane and generous than another, it is this, where relief of every kind is dispensed with a liberality which characterizes it as much for its humanity as for its wealth. But though there is much wealth there is also much indigence, and the severity of winter, which stops the employment of any labouring man, has nearly the same effect on him, as if sickness had confined him to his bed; and, without succour, his family must be famished. If to these be added an increased price of bread, beyond the reach of his earnings, supposing him capable of working, his misery is still inevitable, without immediate aid.*

This

* Soon after the first edition of this tract appeared, the interesting work, by David Davies, rector of Barham, Berks, entitled, 'The Case of Labourers in Husbandry stated and considered,' came under my observation. It exhibits numerous calculations, made in different parts of the kingdom, of the expenses of subsistence among the labouring poor, which
clearly

This is the precise state of many poor people at the present moment, and laudable
are

clearly demonstrate that the annual expenses of several classes of them exceed their annual income or earnings. These calculations were made about six years ago, when the times were even more favourable to the poor. In these calculations certain contingent expenses are omitted, as consequent on sickness, accidents, &c.

A performance, entitled 'A Proposal for a perpetual Equalization of the Pay of the labouring Poor,' made its appearance just as this was going to press; the author calculates the pay of labour by the price of wheat. "Six shillings being assumed as the ordinary price of a bushel of wheat in the time of peace; and in seasons of usual plenty, let the pay of a day-labourer be apportioned to that, and fixed, never on any account to vary. For instance, the daily pay of a labouring man in the parish and neighbourhood in which this was written, was one shilling a day, until about two years ago, when, in consideration of the increased price of bread, two-pence were added to it. Let one shilling therefore per day, or six shillings per week, be taken as the established and fixed price of ordinary day labour." He adds, "Let the addition which is made to their pay be given as a separate article of account, and called a *gratuity*. Whenever the price of wheat is at six shillings per bushel, or at any price below six shillings, let the day-labourer receive his pay without any addition. When the price exceeds six shillings, let him receive a *gratuity*, besides his pay, in the proportions given in the following

are the exertions every where making to avert
 a catastrophe dreadful even in idea, of starving
 in

TABLE:

Price of a Bushel of wheat.			Gratuity,	
<i>s.</i>	<i>d.</i>		<i>s.</i>	<i>d.</i>
6	0	} The daily pay being one shilling per day, the corre- sponding gratuity will be	0	0
6	6		0	1
7	0		0	2
7	6		0	3
8	0		0	4
8	6		0	5
9	0		0	6
9	6		0	7
10	0		0	8
10	6		0	9
11	0		0	10
11	6		0	11
12	0	1	0	

This table is succeeded by others to suit different kinds of labour, but it does not make more provision for a married man with children, than for a batchelor.

If every labouring man being a batchelor, or married man without a child, were to pay one halfpenny in the shilling of their earning into a parish fund, it might, probably, be sufficient to clothe annually every married man, his wife, and their children, in the same parish, provided they have three children, or upwards. This would, probably, prove an effectual method of equalizing labour with the expenses of a family. Another fund might be formed by a tax of one shilling on every dog,

The author of the preceding table mentions the practice of a very intelligent and worthy clergyman, his friend and neighbour,

in a land of wealth and luxury.* My intention in writing these hints, is to impress upon the public that much real inevitable distress really prevails among the virtuous poor, and that charity cannot be exercised more piously

bour. "It is, to construct ovens for the poor of his parish, and to supply them, when used, with fuel; the expence of which, to the poor, would be but trifling, compared with the process multiplied by the same number of individuals baking for themselves, especially in countries where fuel is scarce." Page 23.

In a pamphlet lately published by Dr. Barry, entitled, "On the Necessity of adopting some Measures to reduce the present Number of Dogs;" he supposes, that a tax on them of five shillings each, would produce an annual revenue of 400,000*l*. This exaggeration is noticed in the Critical Review, vol. 15, p. 336. But the writer of it, on the other hand, underrates the consumption of food by dogs: every pack of them, consisting of sixteen couple, annually consume four tons of oatmeal, and forty hundred weight of biscuit. The product of this moderate tax of one shilling on each dog, might be appropriated to portion out poor girls on marriage, or to settle young men in farming. To promote early marriages, and subsistence for the offspring, are objects worthy of a wise government; and any government is capable of annihilating the misery of the poor. If the tax should lessen the number of dogs, it might at least have this good effect, of proportionally lessening the number of mad dogs, for whose bite no effectual remedy has yet been ascertained.

* This was written in the late hard winter of 1794-5. And no winter is so mild as not to render the observations in some degree applicable.

than at this season, when the price of bread, and of all the necessaries of life, is much increased.

The plan of buying food, fuel,* and clothes for the poor, whose little pittance does not enable them to go to the best market, is truly laudable, and may save thousands from debt, famine, and death, till better weather and better times may afford them other means of support. Never be weary, humane citizens, in the godlike work of averting misery from, and administering comfort to, the poor man, his industrious wife, and their helpless children !

But I cannot here avoid noticing some acts, *intended* as acts of charity, which appear to me not only useless, but even injurious to those for whose benefit they are designed. It is not unusual for the opulent in rigorous seasons of

* As the poor of London suffer much in winter from the high price of coals, it might become a laudable institution to authorize the church-wardens, or certain humane persons in each parish, to buy in a stock of coals when cheap, and sell them to the poor at prime cost in seasons of distress.

the year to treat the poor with a whole ox or oxen, and regale them with hogsheds of ale. I doubt not but they get well replenished for the day; but alas! the day of feasting, only makes them feel more poignantly its reverse, the day of fasting. It neither tends to good morals, nor to persevering industry; but, on the contrary, is destructive of both. Much more charitable would it be, to expend the money which the donation of oxen and ale would cost, in fuel, warm clothing, and other necessaries, which would last beyond the day of feasting and fulness, and warm the indigent with comfort through the winter. You opulent and great in the land, whilst I respect your intentions, permit me to direct your beneficence into channels of real charity, to the permanent succour of distress and pining want.*

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* Consult 'A Letter to Sir T. C. Bunbury, Bart. on the Poor Rates, and the High Price of Provisions, with some Proposals for reducing both. By a Suffolk Gentleman.'

The Monthly Review, vol. 18. N. S. p. 318, gives the following account of this performance: "The intelligent writer of this pamphlet regards, as the cause of many public evils, the

A religious society, consisting of about fifty thousand members, for the most part of the

the practice of uniting several small farms into a large one, and the consequent failure of the race of independant yeomanry, who formerly cultivated their own farms, from forty to fourscore pounds a year. The mischiefs resulting from this practice are clearly laid open, and a plan is suggested for reducing the poor rates, and the price of provisions, which may merit the attention of the public. It is briefly this; that every owner of land, to the amount of one hundred pounds a year, within three miles of a populous market town, should build and let a cottage, with at least an acre of land adjoining. The immediate advantage to the public which the author expects from this project, are the increase for sale of many of the small articles for house-keeping, and the reduction of the poor rates. As a more remote consequence he expects the revival of the old system of small farms."

With respect to the price of labour, there seems to be singular difficulty in appreciating it. As the times now are, a single man may live comfortably with the present price of labour; but a man with a wife and four or five children, cannot possibly be decently supported. Perhaps the best method would be to exempt every married man with three children from certain taxes, or give him some allowance from the county, in proportion to the number of his offspring. Compare the notes p. 6, 7, and 11.

Farms, however, should not be too small, as each will require a team, and very small farms will not afford the expense. As one horse consumes as much land as would about maintain a family, every horse that is kept may be said to annihilate a family, or eat up the support of one; an additional distinct tax, therefore, of about a shilling on every horse, might be appropriated solely as a premium for keeping oxen.

middle and lower classes, has existed in this country upwards of a century, in which abject poverty is the condition of none. Surprising as it is, that a sect debarred, by restrictions in government, from enjoying any public office or emolument, and from sharing its pensions, perquisites, and sinecures, should have formed a constitution, that prevents the misery of want, in the midst of poor rates amounting to two millions three hundred thousand pounds a year,* of which they do not partake: it is still more surprising, that the community at large seeing this, and feeling the weight of taxes, should never have inquired of this sect, Tell us your system? At the same time, this

* Were a tax upon all batchelors, except labourers, apportioned to the other taxes they respectively pay, as five shillings, or any other sum in the pound, rising five shillings in the pound, every ten years, or one shilling in the pound every year, after the age of twenty-one, till a certain period of age, it might afford a substitute for the poor rates. Married men having no children should be included; and, perhaps, a smaller tax on those having only one child, but never to extend to those having three. Or to simplify such a tax, the parochial rates might be doubled to batchelors, and this additional moiety applied to the extinction of the poor rates.

system

system is comprized in two words, *PRINCIPIIS OBSTA*,—*remove the cause of distress in its commencement.* A prominent part of this system I shall explain. The moment any individual of this society applies for relief, two persons in the respective meeting are appointed to visit him, and to administer such aid as the nature of the case may require. If the object of distress be a female, two of the sex are deputed to pay this charitable visit; and sometimes a family in want is cheered by the united attention of both sexes.

Sudden distress, in poor families, may arise from sudden illness, and by a moderate temporary relief, in the season of affliction, subsequent aid is rendered unnecessary; but from whatever source it may arise, when a person becomes involved in distress, unless that distress, and the cause of it, be early removed, accumulated misery ensues, and the result usually is a workhouse; or, what is still worse, intoxication to drown care, or dishonesty in the desperate hope of overcoming it. Bad indeed is the best; for, in general, the moment a family is so involved by the
miserable

miserable policy of the present poor laws, as either to starve or to enter the doors of a poor-house, all pride of independence, resulting from industry, is annihilated; that kind of independence which is the boast of an Englishman. Every passion that gives energy to soul and body seems buried in the common wreck of his independence; his offspring imbibe the same inertia, and a mean, beggarly, squalid race is generated, doomed to become a burthen to themselves, and to the community, as long as the same policy is pursued. This subject, however, I now relinquish, to be resumed in a future essay.

The *principiis obsta*, as already observed, implies the immediate attention to distress, which, by early removal, prevents its subsequent evils. To this end, it would be adviseable to institute a society in every parish, or even in smaller districts, of the inhabitants of both sexes, to receive the applications of any individual in the district, who may have lived above parish aid; but who, from sickness, or other unforeseen event,
 may

may want temporary assistance; and to administer such relief as the pressure of distress may require, agreeably to the plan adopted by the sect alluded to.

By such superintendence of the opulent over the indigent, parish poor would gradually cease, or exist in a very small degree.

When the individual of a large community falls into distress, less attention, in proportion, is paid to his particular distress. It would therefore afford the exercise of more active humanity, were societies formed in small districts; and in every society, two of each sex should be deputed every month to hearken to the voice of misery, and to endeavour to administer relief.

By this pious superintendence, the rich would see the distresses of their poor neighbours, and learn, in this school of active morality, the unassuming enjoyment of their superior blessings, and the habitual exercise of Christian charity. To see gentlemen entering the hovel of the poor man, and ladies sympathizing

pathizing in the chamber of the poor woman, would elevate the dignity of human character; and whilst it cheered poverty, it would tend to promote a virtuous exertion to overcome it by industry.

It may be urged, that many of the poor are too depraved to merit attentions of this kind, which would be administered in vain. From an extensive knowledge of the subjects of human infelicity, I am convinced, that few individuals are so depraved as to become irreclaimable by kindness. The lion will lick the hand of him who draws the thorn from his foot. Were the plan, however, of early relief, once adopted, this hardened state would not be acquired; for depravity is not habitual, where oppression is not permanent. There is no expression more illustrative of the character of Christ, than the epithet contemptuously applied to him, "*Behold the friend of publicans and sinners.*"

I may here advert to an order sanctioned by the late worthy Lord Mayor, to lessen
the

the price of bread, forbidding the barbers from using flour instead of hair-powder made of starch, under a penalty of ten pounds. Were the barbers to use starch-powder alone, the product of their industry would not enable them to live, and above one half of them are not each worth the penalty to be inflicted; so that if this old act, recently revived, were put into execution as generally as it is now eluded, the prisons would be crowded with more accumulated misery than now exists.

Happy for the poor it is, that this act does not restrain the barbers and hair-dressers from mixing about four pounds of wheat-flour with one pound of starch, otherwise the destruction of wheat-flour would become a more serious evil; for, as full two pounds of wheat-flour are destroyed in manufacturing one pound of starch, it follows that, were the barbers and hair-dressers to use starch-powder alone, agreeably to act of parliament, twice the quantity at the least of wheat-flour would be consumed upon the head instead of replenishing the stomach. It would therefore be
 much

much more humane in the legislature to pass an act immediately, forbidding the barbers from using starch at all, and confining them, if powder must be used, to flour alone; and at once, generously and humanely submit to forego the duties on starch, till the return of better times for the distressed poor. If, instead of roasting bullocks and squandering strong beer for one unhappy day of feasting them, the great men and women of the land would allow their hair to be cherished by nature, and totally relinquish the dirty fashion of starch and grease, the poor might really experience the benefits of their forbearance of a custom, filthy to clothes, and abstractive of personal charms. Till then all the heavy excise duties, and improvident revenue acts of parliament, respecting starch and wheat-flour, are perhaps destructive of the very end proposed—the feeding the poor with bread. Previous to passing the hair-powder bill, it appeared, by the accounts from the Excise-Office laid before parliament, that 8,170,019½ pounds of starch were manufactured in Great Britain in one year. The minister at the same time stated

the number of hair-dressers to amount to 50,000. The author* of a letter to him, supposes from these facts, that, if each hair-dresser used only one pound of flour a day, it amounts on an average to 18,250,000 pounds in one year, or 5,314,284 quartern loaves, at the usual allowance of $3\frac{1}{2}$ pounds of flour for a quartern loaf: and supposing only four times this quantity of flour used by those who dress their own hair, and others who are not professed hair-dressers, will make 21,256,936 quartern loaves; those three numbers being added, amount in all to 30,571,226 quartern loaves at 9d. each, which is $4\frac{1}{2}$ d under the present affize, and amount to 1,146,421 pounds sterling. †

But as every hint for immediately diminishing the consumption, and consequently

* John Donaldson, esq.

† Dr. Reufs, professor at Tubinguen, in his 'Medico-Economical Inquiry, concerning the Properties and Effects of pure and adulterated Hair-Powder,' published in 1781, calculates, that 7200 bushels of wheat are annually consumed in this manufacture, in a country inhabited by 10,000 persons, if only a thirtieth part of them use it,

the price of flour, is of more or less utility, I cannot conclude without recommending the use of potatoes as a partial substitute for bread.*

One-

* In the *Mémoires of the Academy of Sciences of Paris*, M. Beaumé has given a description of a mill to grind potatoes, and of the method of preparing starch or flour from them. See also the *Repertory of Arts and Manufactures*, No. 13, for June 1795, in which is inserted the manner recommended by him of preparing flour or starch from potatoes, in the following translation :

“ In order to prepare flour or starch from potatoes, any quantity of these roots may be taken, and soaked in a tub of water for about an hour; they are afterwards to have their fibres and shoots taken off, and then to be rubbed with a pretty strong brush, that the earth, which is apt to lodge in the inequalities of their surface, may be entirely removed; as this is done they are to be washed, and thrown into another tub, full of clean water. When the quantity, which we mean to make use of, has been thus treated, those which are too large are to be cut into pieces about the size of eggs, and thrown into the mill; that being already fixed in the oval tub, with the proper quantity of water; the handle is then turned round, and, as the potatoes are grated, they pass out at the bottom of the mill. The pulp which collects about the mill must be taken off, from time to time, with a wooden spoon, and put aside in water.

“ When all the potatoes are ground, the whole of the pulp is to be collected in a tub, and mixed up with a great quantity of clean water. At the same time, another tub, very clean, is to be prepared, on the brim of which are to be placed two

One-fourth of potatoes in the loaf renders it equally pleasant and wholesome as if the whole were of wheat; I speak from indubitable

wooden rails, to support a hair sieve, which must not be too fine. The pulp and water are to be thrown into the sieve; the flour passes through with the water, and fresh quantities of water are successively to be poured on the remaining pulp, till the water runs through as clear as it is poured in. The pulp, which is after this left in the sieve, is commonly thrown away as useless; in this manner we are to proceed till all the potatoes which were ground are used.

“ The liquor which has passed through the sieve is turbid, and of a brownish colour, on account of the extractive matter which is dissolved in it; it deposits, in the space of five or six hours, the flour which was suspended in it. When all the flour has settled to the bottom, the liquor is to be poured off, and thrown away, being useless; a great quantity of very clean water is then to be poured upon the flour remaining at the bottom of the tub, which is to be stirred up in the water, that it may be washed, and the whole is to stand quiet till the day following. The flour will then be found to have settled at the bottom of the tub; the water is again to be poured off as useless, the flour washed in a fresh quantity of pure water, and the mixture passed through a silk sieve, pretty fine, which will retain any small quantity of pulp which may have passed through the hair sieve. The whole must once more be suffered to stand quiet till the flour is entirely settled; if the water above it is perfectly clear and colourless, the flour has been sufficiently washed; but, if the water has any sensible appearance either of colour or of taste, the flour must be again washed, as it is
absolutely

dubitable experience. This was about the proportion of potatoes recommended by the late Dr. Fothergill. I have eaten a pleasant
bread

absolutely necessary that none of the extractive matter be suffered to remain.

“ When the flour is sufficiently washed, it may be taken out of the tub with a wooden spoon ; it is to be placed upon wicker frames covered with paper, and dried, properly defended from dust. When it is thoroughly dry, it is to be passed through a silk sieve, that, if any clotted lumps should have been formed, they may be divided. It is to be kept in glass vessels, stopped with paper only.

“ N. B. Almost all the flour of potatoes that is to be bought contains a small quantity of sand, which is perceived between the teeth : it is owing to the potatoes not having been properly washed ; for the sand, which lodges in the knobs and wrinkles of these roots, is not always easy to get out. The operation of cleaning potatoes, although simple in appearance, requires a great deal of care and attention : the same observation may be made respecting the care necessary to procure the flour of a proper degree of whiteness. It is, when properly made, perfectly white ; but, to obtain it in that state, it must be thoroughly separated, by sufficient washing, from all extractive matter. It must also be made in very clean vessels, and in such as are not capable of communicating any thing to it. Vessels of earthen or stone ware would be the most convenient, but such vessels cannot be used for operations on a large scale ; we are, therefore, obliged to employ wooden tubs, and we should, as much possible, make use of none but such as are

bread made of equal quantities of potatoes and wheat-flour.* The Board of Agriculture has published the following receipt, “ Choose the

the
made of white wood ; oak-wood tubs, or casks, never fail to communicate to the flour more or less colour, unless they happen to be exhausted of their extractive matter, by having been frequently, and for a long space of time, kept full of water.

“ As the mill is plunged into water, while it is used, it is not much disposed to be clogged ; it is, however, proper to remove, from time to time, the mass of ground potatoes which is collected under it. We may, if we chuse it, wash the pulp as soon as it is ground ; for this purpose, we must put it into the hair sieve, as it comes from the mill, and pour a sufficient quantity of water upon it to separate the flour from it. What remains in the sieve is the fleshy pulp of the root, deprived of the sediment already spoken of. This pulp is very nourishing ; it may be boiled in water, and used as food for animals. The manner of employing it is an object which deserves some consideration, particularly when potatoe-flour is made in large quantities.

“ The first separation of the pulp, which is made by means of the hair sieve, is very convenient, as by it we quickly get rid of a great quantity of pulp ; if a little of it should pass through the sieve, it settles after the flour, consequently falls on the surface of it, and gives it a dirty colour ; but that is of no consequence, for, as it is more gross than the flour, it is easily separated from it by the silk sieve, of which we have already spoken.”

* My friend, Mr. Cook, of Barking, has introduced potatoe-bread into his family, and which I have ate of, and found

the most mealy sort of potatoes, boil and skin them; take twelve pounds, break and strain them well through a very coarse sieve

as agreeable as any bread I ever tasted. His sister favoured me with the method of preparing it.

“ A quantity of potatoes is boiled in the skin, over a slow fire, by which they fall to pieces throughout more effectually. After long boiling, they are peeled, and the most mealy selected; these are well bruised by a broad wooden spoon; and equal quantities of this and flour by weight, are kneaded up with yeast for the oven. To take off the bitterness of the yeast, a small quantity of bran and milk, with a little salt are added to it; these, after standing about an hour, are run through a hair sieve. Probably the milk may add to the whiteness, for the potatoe-bread I ate, was as white as wheaten standard-bread, and it is found to make the bread eat shorter and pleasanter, for without this addition the bread tastes a little bitter.

“ It may be proper to observe, that after the whole is kneaded into dough, it is laid on the hearth before the fire, placed on a dish, and lightly covered with a cloth about an hour, which promotes a kind of fermentation, and renders the bread lighter in eating.”

Since the first edition of these Hints, I have also introduced potatoe-bread into my family, made of equal quantities of potatoes and flour; it so much resembles the standard wheaten bread, that when both kinds were cut together into the bread basket, I could not easily distinguish one from the other.

of hair, or a very fine one of wire, in such a manner as to reduce the roots as nearly as possible to a state of flour; mix it well with twenty pounds of wheaten flour; of this mixture make and set the dough exactly in the same manner as if the whole were wheaten flour. This quantity will make nine loaves of about five pounds each in the dough; and when baked about two hours will produce forty-two pounds of excellent bread." The following receipt of Dr. Fothergill, is copied verbatim:—"Take two or three pounds of potatoes, according to the size of the loaf you would make, boil them as in the common way for use; take the skin off, and, whilst warm, bruise them with a spoon, or a clean hand does better; put them into a dish or dripping-pan before the fire, to let the moisture evaporate, stirring them frequently that no part grow hard; when dry, take them up and rub them as fine as possible between the hands; then take three parts of flour and one part of the prepared potatoes (or equal quantities of each will make good bread)

bread) and, with water and yeast, make it, as usual, into bread. It looks as fine as wheaten bread, and tastes agreeably; it will keep moist near a week, and should not be cut till it is full a day old, otherwise it will not appear sufficiently baked, because of the moisture which the potatoes give it. Never cut potatoes in slices with a knife, either raw or boiled, break or bruise them with the hand or spoon, or they will not be soft.*

In December, 1795, was held at Bath, the anniversary meeting of the West of England Agricultural Society, when the following method of making potatoe-bread, of which a specimen was produced to the Society, met with general approbation. “To any given weight of flour, put half the weight of potatoes; let the potatoes be well boiled, peeled, and mashed; mix them up with flour whilst warm, then add the yeast, and proceed as in the common method of making bread, observing to make the bread as dry as possible.”

* See the receipt in the Appendix, p. 44, from M. Parmentier.

as “Twelve months use of this bread in one family, has proved it to be both wholesome and palatable. The following experiment will shew the increase of bread to be obtained from the mixture of potatoes:—eighteen pounds of flour, without any mixture, made twenty-two pounds and a half of bread:—eighteen pounds of flour, with nine pounds of potatoes, made twenty-nine pounds and a half of bread.*”

“Seven pounds of bread are gained by nine pounds of potatoes. The flour employed was three-fourths wheaten and one-fourth barley flour; the bread excellent.”

That humane and excellent character, Admiral Waldegrave, in a letter dated Portf-

* This is different from all my experiments, for on baking dough of equal quantities of flour and potatoes, of the weight of twelve pounds, the loaf on being taken from the oven never weighed more than nine pounds. Lest some deception might have occurred, different bakers were employed, but the result was the same; had the loaf been of flour alone, it would have weighed about eleven pounds and a half.

mouth,

mouth, October, 1795, gives the following receipt for making potatoe-bread.

“ Take sixteen pounds of large mealy potatoes, boil them well, and break them in pieces. They must be then set out in the open air for half an hour, that the watery particles may evaporate; then rub them in with twenty-eight pounds of flour, till all the lumps are reduced; after which, mix a proper portion of yeast, and knead it into dough.

“ This is for a large baking; but may be reduced by only allowing two pounds of potatoes to three pounds and a half of flour, or six pounds of potatoes to eight pounds of flour.”*

“ We are now making bread of equal proportions of flour and potatoes. It answers admirably.”†

* “ The weight of the potatoes here considered, is in its state just previous to its being mixed with flour.”

† Vide Hints for the Relief of the Poor, p. 14.

Dr. Johnson, in his letter to the Admiral, dated Haflar, October 19, 1795. Observes, that he has made trial of the potatoe-bread, in the proportion of three pounds and a half of flour to two pounds of potatoes, and found it preferable (from the concurrent testimonies of many who tasted it) to the finest baker's bread; and, after keeping it four days, retained its lightness, and acquired no acidity.

In some of the northern counties of England, it is customary in several families to make pies of standard dough, and to fill the inside with sliced or mashed potatoes, and a layer of bacon, or any spare meat; when well baked it affords wholesome food, and is, perhaps, the cheapest hitherto used.

A friend of mine has informed me of the experience he has had in his own family, of the superior advantages of pies, in preference to roasting or baking. Four pounds of mutton were made into a pie, with one pound and a half of wheat-flour; this pie, with eight
 ounces

ounces and a quarter of bread, dined eight persons fully; whilst three pounds three quarters of mutton roasted, with two pounds one ounce of bread, dined only five of the same persons: which prove, that baking pies is a cheaper way of using meat than roasting, and (which at this time is of great importance), it consumes less flour.*

I would also recommend to every family, who seriously wishes to mitigate the distresses of the poor, to suspend the consumption of bread one day in the week, except at break-

* It was I think impolitic, to enter into combinations, as some members of administration and many opulent persons in London have done, to eat no pastry at all, though the motives were certainly laudable. In boiling meat, except the liquor be saved for broth or soup, a considerable diminution of the meat may be observed; and perhaps still more loss is sustained by roasting, but in the form of pies, nothing is lost, whilst in reality less flour is consumed, as is judiciously observed above. The objection might probably be useful as applicable to the little pastry of the shops, but by no means in families; at the same time the pastry might be made of flour mixed with potatoes, rye, barley, oats, or rice; each however of these, except potatoes, is at present dear.

fast,

fast,* and substitute either boiled or roasted potatoes or potatoe-bread.† If every person will not submit to this trivial sacrifice, or others deem that a few individual examples are inadequate to any benefit of the community at large, let such remember that of the smallest atoms masses of the greatest bulk are composed. And oh! thou, who piously feelest for human misery, if thou art not

* For young people, and indeed in general, some preparation of milk would be more salutary than tea and bread-and-butter. Milk-pottage is preferable to milk alone, that is, equal quantities of milk and water, boiled up with a little oatmeal; this breaks the viscidty of the milk, and is, perhaps, easier digested than milk alone. Oatmeal also affords a warmer nourishment than wheat-flour, and generally agrees with weak stomachs. Rice likewise with milk is a good substitute for wheaten bread, and, by way of variety, might be taken instead of milk-pottage, not only at breakfast, but likewise at supper.

† Various other means might conduce to lessen the price of meat, and of provisions in general. Were each family to live one day in each week without animal food, the consumption of it would of course, be one-seventh less in the year, and it would become, probably, proportionably cheaper.

By habituating myself to good mealy potatoes at dinner instead of bread, since bread became so dear, I now prefer potatoes to any bread except potatoe-bread.

enabled

enabled to extend thy light and warmth afar off, thy little embers of charity may cherish and revive some starving palsied hand; and if, by thy single sacrifice of the consumption of bread one day in the week, thou shalt be the means of keeping alive one helpless infant, thou only doest a portion of thy duties towards God and thy fellow-creatures.

enabled to extend thy light and warmth alike
of thy little embers of charity may cheer
and revive some fasting palled hand; and
if by thy single sacrifice of the consumption
of bread one day in the week, thou shalt be
the means of keeping alive one helpless man
that thou only doest a portion of thy duties
towards God and thy fellow-creatures.

APPENDIX

A P P E N D I X.

THE following letter is so applicable to the subject of this tract, that I annex it, as containing hints worthy of further investigation.

“ SHEFFIELD,

27th of the 5th Month, 1795.

“ Esteemed Friend,

“ I duly received thy kind favour of 13th current, and, according to thy desire, as soon as conveniency would allow, I procured a bushel of potatoes; when the dirt was washed off they weighed $75\frac{1}{4}$ lb. avoirdupois weight: these were peeled with a knife; the peelings weighed 15lb. the potatoes were then reduced to a pulp upon a bread grater, and then put
c into

into a hair sieve, and the fecula washed out by frequent effusions of clear water into a tub, having a quantity of water previously put into the tub for the fecula to fall through. This purification was several times repeated, till the water came off colourless, or nearly so; there remained in the sieve a substance which would not pass with the water, weighing 20lb. I had one pound of this, crushed very fine betwixt two stones, and it then yielded 3xixs. of fecula when dried. This I have sent for thy inspection; it is not of so good a colour as the other, which I think was owing to the stones not being so well cleaned as they might have been; one of my young men did it when I was not aware of it.

“ Perhaps it may be worth remarking that when the fecula came out of the last washing, to my surprize it was of a bad colour, which was owing to something having passed the sieve which should not; but on mixing it with just as much water as was sufficient to suspend it, it soon cleared itself of the greatest part of the impurities, forming
a thin

a thin stratum on the top, and some little of the heaviest particles a thin stratum at the bottom ; when these were pared off the rest was of a beautiful white : I purified these parings in the same way ; and when the whole was dried it weighed 6lb. 14oz. avoirdupois, which with Exifs. multiplied by twenty, makes what might have been produced from the whole residuum, viz. 230 scruples, and reckoning 21 scruples an ounce avoirdupois, is something more than 10 oz. which in all is 7lb. 8oz. of starch per bushel. I am informed by a person much accustomed to the growth of potatoes, that an acre of good land, well managed, will generally yield 300 bushels, and would make 20 cwt. 1 quarter of starch, as appears from this experiment. An acre of good land, on the average, I am informed, yields 30 bushels of wheat, and if very good grain and well dressed, will weigh about 63lb. $\frac{1}{3}$ viz. 14 stones per load, each load being 3 bushels ; the produce of the whole 30 bushels then is 17 cwt. 2 quarters ; how much starch this will yield, I am not able to learn, but most likely that may easily be come at in London.

The following Table shews the expence of cultivating an acre of land for both wheat and potatoes.

An acre of land, from the best information, I find, when the work is hired out, costs for wheat as under :	An acre of land, from good authority, appears to cost, when cultivated for potatoes, as under :
£. s. d.	£. s. d.
Following 2 18 0	Preparing the lands, } 2 2 0
Manure 4 4 0	including plough- } 2 2 0
One load of feeds } 1 1 0	ing and setting . . }
average price . . }	Setts, 30 bushels, at 1s. 1 10 0
Ploughing and sowing 0 12 0	Manure 4 10 0
Reaping 0 10 0	Digging up the crop } 2 1 0
One year's rent and } 2 10 0	at the close of the } 2 1 0
taxes, suppose . . }	year, at 5d per load }
Allow the straw for } 0 0 0	Rent & taxes, suppose 2 10 0
thrashing }	
£. 11 15 0	£. 12 13 0
£. 11 15 0	£. 12 13 0

“ If an Act of Parliament were made for the entire prohibition of the use of wheat for making starch, it might be attended with the greatest benefits, as there are thousands of acres in some parts of this country where wheat can never be grown to perfection, and where good potatoes might be raised; and these

these situations, being mostly mountainous, are best calculated for erecting mills for the extraction of potatoe-starch, the springs being strong enough often to turn a small wheel, and exceedingly clear for washing the fecula.*

“ It appears to me that it would be the best way to have a small machine made to crush the potatoes effectually, and to make the experiment on a larger scale, in order to obtain proper knowledge of the quantity of fecula yielded from a given quantity of potatoes. If any one should think it worth his while to pursue these researches, it might be proper to have something like a cyder mill, by a stone running on edge in a circular trough, having a hole in its side to fix a sieve or fine riddle in to let the fecula through; which may be done by a small tube discharging a continual gentle stream of water into the trough, to be stopped by a cock at pleasure. The sieve will want clearing, which may be done with a brush fixed to the stone which turns round; the fecula being carried forward are to be

* See note page 19.

washed into the tub through another sieve, by a cock over it; and so forth, till it is clear and pure, and then dried in flat bottomed baskets covered with cap paper hung in a stove with a gentle heat.

“ I believe that potatoes do not all yield an exact quantity; several experiments have yielded more in proportion than these.

“ Thou desiredst to know what use could be made of the refuse in feeding pigs, &c. I gave the peelings and the matter which was left in the sieve to a person who boiled them, and gave them to a pig; but, not being accustomed to this kind of food, it would not eat it without the addition of a few grains, which made it go down very well. But, perhaps, the best method would be to crush all the refuse, and dissolve the fecula with boiling water, to which, adding a small quantity of an infusion of malt, or some saccharine substance, ferment with yeast for the distillation of vinous spirit. The coloured water from the first washing is considerably thickened, and should be used to extract the fecula from the refuse.

“ There

“ There is a machine in use at Ackworth School for peeling potatoes, which probably would be an useful addition to a potatoe-starch manufactory. It consists of a bucket, whose sides are lined with rolled iron, tinned and punched like a bread grater, in the middle whereof is placed a wooden cylinder, which is covered with the same kind of grater; there is a space betwixt the cylinder and the sides of the bucket, sufficient to allow several potatoes to lie by the side of one another; this being nearly filled with the roots, water is added, and covered up, when the cylinder is turned round, and in some time the skins are found floating in the water.

“ R. S.”

The scarcity of grain, and particularly of wheat, at the present time, has given rise to the use of various substitutes, and to the publication of several essays, designed to prevent or lessen the threatened scarcity. The substitutes most generally adopted, have been rice or potatoes. The former is too expen-

five for the community at large, but whatever quantity of it is consumed in the place of wheat-bread, affords a saving of the latter for the nourishment of the poor. The water in which the rice has been boiled, answers every purpose of starch, and, in this point of view, is also a saving in the consumption of wheat, by precluding the use of starch made from it.*

In general, however, if we except rye, oats, and barley,† which are at this time scarce
and

* Perhaps other substitutes besides wheat and potatoe-starch may be discovered, as from the horse-chestnut, or acorn.

† Governor Pownall has just published, “ Considerations on the Scarcity and High Prices of Bread-Corn and Bread.” Amongst a variety of useful, political, and oeconomic reflections, he observes, that one great evil is *the undue divisions of the meal into flour*, by which a brown bread not sufficient in its nature for the nourishment of a labouring man, or a white or wheaten bread too high for their wages to afford, are prepared. This seems confirmed by the following resolution :

The Committee appointed by the House of Commons to examine the several laws now in being relative to the assize of bread, have come to the following resolutions :

October, 1795.

“ That it is the opinion of this Committee, that if the Magistrates were by law permitted (when and where they shall think

and dear, the potatoe affords the most pleasant and cheap substitute hitherto made use of in this country. In favour of its wholesomeness, much

think fit to set an assize of bread), to introduce again, under certain regulations and restrictions, the old standard bread made of flour, which is the whole produce of the wheat, the said flour weighing, on an average, three-fourths of the weight of the wheat whereof it is made, it would tend to prevent many inconveniences which have arisen in the assize and making of bread for sale,

“ That it is the opinion of this Committee, that the columns calculated for the wheaten bread, in the now repealed tables of the Act of the 8th of Queen Anne, intituled, “ An Act to regulate the Price and Assize of Bread,” would be the proper assize for said standard wheaten bread: and that the twelpenny loaf of this standard wheaten bread, containing the whole flour of the wheat (the said flour weighing, on an average, three-fourths of the weight of the said wheat) would, upon a medium, contain one pound of bread in weight more than the twelve-penny loaf of the present wheaten bread, made under the Act of the 31st of George II.”

On the 12th of December,

Mr. Ryder brought up the Report of the Select Committee appointed to take into consideration the present high price of corn, and moved—that the House do agree to the following resolution:

“ To reduce the consumption of wheat in the families of the persons subscribing such engagement, by at least one third of the usual quantity consumed in ordinary times.

“ In

much has been published in Shakespeare,* Forster, † Gerard, ‡ the Philosophical Transactions, and in numerous distinct essays; of the latter Parmentier's, is perhaps the most interesting, which gained the prize proposed by the Academy of Besançon, in 1777, and

“ In order to effect this purpose, either to limit to that extent the quantity of fine wheaten bread consumed by each individual in such families ;

“ Or, to consume only mixed bread, of which not more than two thirds shall be made of wheat ;

“ Or, only a proportional quantity of mixed bread, of which not more than two-thirds is made of wheat ;

“ Or a proportional quantity of bread made of wheat alone, from which no more than five pounds of bran is excluded.

“ If it should be necessary, in order to effect the purpose of this engagement, to prohibit the use of wheaten flour in pastry, and to diminish, as much as possible, the use thereof in other articles than bread.”

Here the same mistake respecting pies is continued.

* Merry Wives of Windsor, 4to. 1619, scene iii. Falstaff.

† England's happiness increased by a plantation of potatoes, 4to. 1664.

‡ Herbal, Ed. 1636, p. 780.

appeared in 1780, considerably enlarged and improved, under the title of “*Récherches sur les vegetaux nouriffants qui dans le temps de difette,*” &c. This was translated by a respectable phyfician in London, and printed for Murray in Fleet-ftreet, in the year 1783. Parmentier quotes a variety of authors, and gives, from his own experience, many examples to prove, that the potatoe is a wholesome nutritive root; but if univerfal experience in this country did not fuperfede all philofophical deductions, the ftrong and prolific race of a fifter kingdom, whose poor are chiefly fed by it, and where giants are almoft exclufively national, would afford irrefragable proofs of the nutritive quality of this root. We have read of Polish dwarfs and English dwarfs, but I am unacquainted with any importation of them from Ireland.

Parmentier, after chymically analyzing this vegetable, and explaining its different conftituent parts, describes the procefs of making ftarch, faleb, and fago from it, the laft of which is better known here by fago-powder. I fhall, however,

however, only quote from him his process for making bread, and likewise leaven when yeast cannot be procured.

I. POTATOE BREAD.

“ Take any quantity of potatoes, well crushed and bruised, mix them with the leaven prepared the evening before in the usual way, with the whole of the flour designed for making the dough, so that one half may consist of pulp of potatoes and half of flour ; knead the whole with the necessary quantity of warm water. When the dough is sufficiently prepared, put it into the oven, taking care not to heat it so much as usual, nor to shut it up so soon, and to leave it longer in : without this essential precaution, the crust of the bread would be hard and short, while the inside would have too much moisture, and not be soaked enough.

“ Whenever it is proposed to mix potatoes with the dough of different grains either to save a part, or to improve the bread, these roots should be reduced into the form of
a glutinous

a glutinous paste; because, in this state, they give tenacity to the flour of small grain, which are always deficient in this respect.*

II. LEAVEN of POTATOES.

“ Mix half a pound of pulp of potatoes with an equal quantity of the starch of this root, and four ounces of boiling water; set the mixture in a warm place: in forty-eight hours a slight vinous smell should be exhaled from it; and now a fresh portion of starch, pulp, and water, should be added, and the mass again exposed to the same temperature for the same space of time: this operation should yet be repeated a third time. The paste thus gradually turned sour may be considered as a first leaven.

“ In the evening dilute this first leaven with warm water, mix equal quantities of starch and pulp, in the proportion of one half of the dough; so that for every twenty

* A small addition of ground rice, makes potatoe-bread eat shorter, but I do not think any addition requisite.

pounds of dough, ten of leaven must be prepared. When the mixture is exactly made, put it in a basket, or leave it in the kneading tub all night, taking care to cover it well, and to keep it warm till morning.

“ The tedious and troublesome preparation of the first leaven will be avoided after the first baking, because a piece of the dough may be set aside and kept.”

Of the publications of the last year, a very important one is by that accurate chymist Dr. Pearson who was requested, by the Board of Agriculture, to inquire into the composition, or parts, of which the potatoe root consists; and particularly to ascertain the proportion and nature of the watery part. He concludes with Parmentier, with recommending it as highly nutritious, and, like him, as capable of making sago, saleb, &c. But, contrary to the declaration of Parmentier,

he

he says, "The art of fermenting potatoe-meal into bread, in place of wheat, has not yet been discovered." Parmentier, however, asserts, in chapter 4th, "That from various and repeated trials, the potatoe, which hitherto (anno 1777) hath not been converted into a well-raised bread, without the mixture of at least an equal quantity of some flour, may be made to assume that form, without any foreign assistance." I imagine, that neither Dr. Pearson, nor the Board of Agriculture, had seen this valuable performance of Mons. Parmentier.

That excellent and humane magistrate, P. Colquhoun, esq. has lately published, "Useful Suggestions favourable to the Comfort of the labouring People," &c. But although to this essay, as well as to others written to serve the community, he has not prefixed his name, he has politely permitted me to avail myself of his suggestions; and, under this liberty, I shall annex the manner of preparing some of the soups recommended by him, as affording
 much

much nourishment comparatively at a trifling expense.

I. POTATOE SOUP.

Potatoe Soup is made by stewing about five pounds of the coarsest parts of beef or mutton, or even part of a bullock's head, in ten quarts of water till half done: then pare the skin from the potatoes, and put a quantity in the stew-pan with the meat, together with some onions, pepper, and salt. Stir it frequently, and when the potatoes are boiled sufficiently, it will be found a very excellent dish. If a few bones of beef are added, it will make the soup richer, and a greater quantity will be made.* The meat, when seasoned with the onions and pepper, will eat extremely well along with that part of the potatoes which remain whole, and do not mix with the soup; and, in this way, a most comfortable meal for a large family is obtained, without using any bread at all.—

* This is confirmed by the recent trials made by Dr. Johnson, and hereafter inserted.

What is called the sticking of the beef, which is rich and full of gravy, is the best meat for this kind of soup, because there is no bone in it.

5lb. of this beef generally costs 2d. a pound, but at present it will be

3½d.—say - - - - - 1 6

Bones to enrich the soup - - - - - 0 4

24lb. of potatoes may now be bought

for the price of a quartern loaf of

bread (which weighs 4lb 5½ oz.)

and they will soon be much

cheaper. The cost will be 1 0

A bunch of onions will cost, if good

and large* - - - - - 0 4

Pepper and salt - - - - - 0 4

Total expense of ingredients 3 6

This dish will afford a savory, comfortable, and even a plentiful and wholesome dinner

* A person who speaks from experience assured me, that the addition of a red-herring to this soup, proved a good substitute for onions, pepper, and salt, and saved some expense.

to a family of ten or twelve persons, including children, at the expense of $3\frac{1}{2}$ d. for each. It will fill the stomach with what will be found both palatable and nourishing; and it will prevent that desire for large quantities of porter, which always become necessary when the same sum is expended in a dinner of baked meat, or of bacon and bread, which is not so wholesome, creates a thirst, and does not impart half the nourishment; and, in point of weight of food, the proportion for the same money is considerably above four-fold in favour of the potatoe soup and meat; a circumstance well worth attending to by the middling, as well as the lower ranks in life—especially where there is a number of children.

This calculation is made with a view to the present high prices of meat and vegetables.—In a short time, potatoes will be at, or under, one farthing a pound, and onions will be much cheaper and better, so as to afford a greater quantity, and thereby make the dish more savory. Beef may also be
cheaper

cheaper, so that in place of $3\frac{1}{2}$ d. a family may dine well at 2d. or $2\frac{1}{2}$ d. a head.

II. BARLEY BROTH.

This dish, when well made, is, of all others the most savory, rich, palatable, and nutritious that can be conceived. It admits almost of a mixture of every kind of vegetable that can be procured throughout the year, and it cannot be said to be ever out of season. The vegetables are parsley, common greens, cabbages, turnips, carrots, pease, beans, collards, and brocoli, according to the season, constantly attending to one rule however, that whatever other herbs are used, onions or leeks, and parsley if it can be had, must form a part of the ingredients, and the soup may be made thick or thin, according to the taste of the person who uses it. The clod and sticking of the bullock makes the best barley broth, and it may also be enriched much by the addition of beef or mutton marrow-bones. Mutton itself is frequently used in this kind of

soup, but it does not make it so rich or so good as beef, which may be used in larger or smaller quantities, according to circumstances. A tea-cupful of barley is sufficient for a large family. What is called pearl-barley is not so good as a larger sort, which does not cost half so much money, and may be purchased at about 3d. a pound, or less.

The general rule for making this soup is as follows :

Take four quarts of water, four pounds of beef with bones, four ounces of barley, and so in proportion for a larger or smaller quantity. Stew the whole together for two hours ; then put in such pot-herbs and greens as may be suitable to the season, cut small, with a proper quantity of salt, and let the whole boil until quite tender. If necessary, skim the fat off that it may not be greasy. There may be more or less carrots, turnips, greens or pease, according to the taste of the parties ; but onions
or

or leeks, according to the season, must not be omitted, as they give the soup an excellent flavour.

This soup is generally eaten without bread, and with the addition of a few potatoes, to be eaten afterwards with the boiled meat, makes an excellent meal, extremely good and wholesome, especially where there are a number of children.

The present scarcity has not only excited the most generous subscriptions for the relief of the poor, among all the higher ranks of the community, but likewise proposals for affording them cheap and nutritious food in all times of distress. The following receipts which have been printed, and since distributed in several districts of the city, I have presumed to insert here.

A CHEAP FOOD,

Without bread or beer, and with very little meat; and as healthy as can be obtained

from wheat or barley, however prepared, and cheaper, even when corn is at the lowest price.

RECIPT I.

Take half a pound of beef, mutton, or pork; cut it into small pieces; half a pint of peas, three sliced turnips, and three potatoes cut very small; an onion or two, or a few leeks; put to them three quarts and one pint of water. Let the whole boil gently on a slow fire about two hours and a half, then thicken it with a quarter of a pound of ground rice, and half a quarter of a pound of oatmeal (or a quarter of a pound of oatmeal and no rice). Boil it for a quarter of an hour after the thickening is put in, stirring it all the time; then season it with salt, pepper, or pounded ginger, to the taste.

If turnips or potatoes are not to be had, carrots, parsnips, or Jerusalem artichokes, or any garden-stuff, will do. This well boiled is not unpleasent, and is very nourishing. As
a pint

a pint only will be wasted in the boiling, it will be a meal for three or four persons, without bread or drink; and it will not cost above four-pence.

RECIPT II.

Take two pounds of beef, mutton, or pork out of the tub (or of hung-beef refreshed in water), cut into very small bits, and put it into a pot with six quarts of water, letting it boil on a slow fire near three hours (or stew it till it is tender). Then put to it a quarter of a pound of carrots or parsnips, with half a pound of turnips, all sliced small, and sometimes instead of these, a few potatoes sliced (or Jerusalems artichokes), then some greens may be added, according to discretion, such as cabbage, celery, spinage, parsley, likewise two ounces of onions or leeks (which may be omitted if disliked), the whole thickened with about a pint of oatmeal (or a quart, if intended to be very thick); these must be well boiled together, and seasoned with pepper, or pounded ginger, and salt. It is a

wholesome and well relished food, and will support, for a day, a family of six, without bread or drink.

Any kind of meal, or French barley washed, or garden broad beans, will make a good shift. Pounded rice, or split peas, will thicken better and cheaper than oatmeal, as less rice will serve.

RECIPT III.

Take four pounds of beef (onions, if agreeable, three quarters of a pound) turnips two pounds, rice one pound and a half, parsley, thyme, and favory, of each a large handful, pepper and salt in a fit proportion, water seventeen quarts. Let the beef be cut into slices, and after it has boiled for some time, let it be minced small. The turnips (and onions infused) and sweet herbs may be minced before they are put into the pot. Let the whole boil together gently about three hours, on a slow fire,

Scarce

Scarce two quarts will be wasted in the boiling, and the rest will serve about eighteen persons for one meal, without bread or drink.

Where fire is scarce, the several particulars in these three receipts being put into a large pot, may be stewed together all night in an oven; and the next day may be boiled for a quarter of an hour, with an addition of some oatmeal, potatoes, or Jerusalem artichokes or turnips.

Or take a shank of beef, six quarts of water, a pint of split peas (or a quart of blue peas) one leek, four or five sliced turnips; bake them all in a large earthen pot.

To make POTATOE BREAD.

Put potatoes in a net into a skillet with cold water. Hang it at a distance over the fire, so that they may not boil, until they become soft; then skin and mash them, and mix them with their weight of flour, of yeast and salt a sufficient quantity, and a little

little warm water. Knead it up as other dough. Lay it a little while before the fire to rise, then bake it in a very hot oven.* Flour of rice, or barley-meal, may be used instead of wheat flour. A few caraways or anniseeds may be added occasionally.

To make BEER.

To eight quarts of boiling water put a pound of treacle, a quarter of an ounce of ginger, and two bay leaves. Let these boil for a quarter of an hour, then cool and work it with yeast in the same manner as other beer.

Or thus.

Take one bushel of malt, with as much water and hops as if two bushels of malt were allowed; put seven pounds of the coarsest brown sugar into the wort while boiling.

This is very pleasant, is as strong, and will keep as long without being sour or flat, as if two bushels of malt had been put in.

* M. Parmentier recommends that the oven should be less heated than usual. See appendix, page 44, and the receipts, page 20.

To make YEAST.

Thicken two quarts of water with four ounces of fine flour; boil it for half an hour; then sweeten it with three ounces of brown sugar, not the brownest. When almost cold, pour it upon four spoonfuls of yeast into an earthen jar, deep enough for the yeast to rise: shake it well together, and place it for a day near a fire; then pour off the thin liquor at top; shake the remainder, and close it up for use.

It is proper to strain it through a sieve. To preserve it, set it in a cool cellar, or hang it some depth in a well. Keep always some of this, enough to make the next quantity that is wanted. As it is not quite so strong as yeast from ale usually is, put somewhat more than four spoonfuls of this, for making new yeast.

In a useful little pamphlet entitled, “Hints for the Relief of the Poor,” just published, there are several receipts for making cheap soups or pottages. The insertion of which in this place, may be useful to such as read these Hints with a view to serve the community.

The first and second receipts are communicated by lieutenant colonel Paynter, dated Portsmouth, October 19, 1795. The subsequent ones are by Dr. James Johnston, of the Royal Hospital, Haslar; dated Portsea, October 19th and 24th, 1795, addressed to admiral Waldegrave: and Dr. Johnston’s testimony in favour of their salubrity and great nutritious quality, is a sufficient recommendation. These appear to have been suggested by the humane Admiral, for Dr. Johnston’s trial and opinion.

FIRST TRIAL.

TO MAKE A GOOD AND CHEAP POTTAGE.

Take three pounds of the stickings of beef, or part of the shin, or any of the coarse or cheap parts : put these into eleven quarts of water ; after boiling two hours, add one pound of Scotch barley, and let it boil four hours more ; during this time six pounds of potatoes are to be added, half a pound of onions or leeks, and of parsley, thyme, or favy, a due proportion. Season the whole with pepper and salt. Any additional vegetables may be added, and half a pound of bacon cut into small bits, if you wish to make it more favy ; this will produce full three gallons of pottage, which will require no bread.

In London, or large towns, bones may be procured from the butchers, which will answer the purpose as well, and come much cheaper.

N. B. In

N. B. In summer, turnips and carrots may supply the place of barley, but it must be made thick. Meat of the above description costs 3d. per pound. Your pot must boil over a slow fire.

The whole cost three shillings and fourpence, and satisfied twenty men, without bread, the nature of the food not requiring any. Colonel Paynter adds, that the men in the barracks liked it very much, and that the officers also had it in their messes, and found it excellent.

SECOND TRIAL.

ANOTHER VERY CHEAP AND GOOD DISH.

After boiling one pound of Scotch barley, let it stand to cool in an earthen pan, all the water being carefully drained from it; boil
one

one pound of bacon in two quarts of water ; a few minutes before you take it off the fire, put in your barley and it will fall to pieces immediately, and very soon nearly suck up all the juices of the bacon ; you will then only have to pour off the remaining water ; a few onions or leeks should be boiled with the bacon, and pot-herbs, if you have them. Season with pepper and salt.

Note, When you make a very thick mess with potatoes, and mean to eat the broth, it is better, if you can, to parboil and peel them before you put them into your broth-kettle.

The common price of Scotch barley varies from 17s. to 1l. 1s. per hundred weight. The retail price is in general about 3d. per pound.

One pound of Scotch barley boiled four hours, and put into a pan to cool, becomes a sort of jelly, which will instantly fall to pieces on being put into boiling water. When

When it is in its congealed state, it will weigh four pounds. This is a most excellent nourishing food either to make pottage, or, mixed with sugar, for young children.

all the juices of the bacon; you will then only have to pour off the remaining water; a few omelette-balls filled with the bacon, and potatoes, if you have them. Season with pepper and salt.

THIRD TRIAL.

	s.	d.
Gravy beef 1lb. - - -	0	3½
Scotch barley, one-third of a pound	0	1
Potatoes 2lb. - - -	0	1
Onions, one-third of a pound -	0	½
Pepper and salt - - -	0	½
Bacon 3 oz. - - -	0	2½
Produce four quarts	0	9

Dr. Johnston conceives, that this quantity would make a dinner and supper for three working men, without bread or any drink whatever, more salutary and nutritive than the

the usual food of the laborious class of the community, which, in general, consists of fat bacon and cabbage; with this they eat bread, and must have beer to drink: and if a labouring man is supposed to eat a pound of bacon, at 9d per pound, for his dinner and supper, that article alone is equal to what might support three, independent of bread and beer.

FOURTH TRIAL.

	s.	d.
Sheep's head - - - -	0	5
Barley, $\frac{1}{2}$ lb. - - - -	0	1 $\frac{1}{2}$
Potatoes, 3 lb. - - - -	0	1 $\frac{1}{2}$
Onions, $\frac{1}{2}$ lb. - - - -	0	0 $\frac{1}{2}$
Pepper and salt - - - -	0	0 $\frac{1}{2}$
Cabbage, turnips, and carrots -	0	1
Water, eleven pints - - - -	0	0
	<hr/>	
Produce six quarts	0	10
	<hr/>	

This was superior to the other, in richness of flavour and taste, owing to the bones in the head, which were broken to pieces previously to their being put into the stew-pan: This mess would make a most comfortable dinner for four men.

FIFTH TRIAL.

	s.	d.
Bacon, $\frac{1}{2}$ lb. - - -	0	4 $\frac{1}{2}$
Barley, $\frac{1}{2}$ lb. - - -	0	1 $\frac{1}{2}$
Onions, pepper, and salt -	0	1
	<hr/>	<hr/>
Produce 2 lb. 8 oz.	0	7
	<hr/>	<hr/>

This cost 7d. and would dine three men without bread; but it appears that something to drink would be necessary with it.

SIXTH TRIAL.

Made with neck beef, similar to the first experiment.

SEVENTH

SEVENTH TRIAL.

	s.	d.
Ox cheek - - - -	0	10
Barley 1 lb. - - -	0	3
Potatoes 6 lb. - -	0	3
Pepper and salt - -	0	1
Onions 1 lb. - - -	0	1
Cabbage, turnips, and carrots	0	2
Water, 22 pints - -	0	0
	<hr/>	
Produce three gallons	1	8
	<hr/>	

This being made without bacon cost 2od. and produced three gallons of most excellent pottage sufficient for eight men, of the most laborious employment, for dinner and supper. This yielded rich and better pottage than any of the others; and ox-cheek seems to have the preference to any of the coarse pieces of beef.

The above receipts were made in a very close stew-pan, that emitted scarcely any evaporation, which is a material circumstance.

Dr. Johnston remarks, that pottage prepared as above is wholesome and nutritive, is so self-evident, as cannot fail to carry conviction to every unprejudiced mind, and more conducive to health, than the costly dishes of the most luxurious tables; but that he does not recommend this diet to be daily used without any change, though he concludes that every poor family may use it three or four times a week, without being cloyed with a fameness.

EIGHTH TRIAL.

	s.	d.
Shin of beef cost	1	0
Barley, 1 lb.	0	3
Onions, 1 lb.	0	1
Potatoes, 6 lb.	0	3
Cabbage, carrots, and turnips	0	1½
Salt and pepper	0	1
Water, 11 quarts	0	0
	<hr/>	
Produce 3 gallons	1	9½
	<hr/>	

Dinner for seven men at 3d each.

NINTH

NINTH TRIAL.

	s.	d.
Quarter of an ox-head -	0	6
Barley, $\frac{1}{2}$ lb. - - -	0	1 $\frac{1}{2}$
Onions, $\frac{1}{2}$ lb. - - -	0	0 $\frac{1}{2}$
Potatoes, 3 lb. - - -	0	1 $\frac{1}{2}$
Cabbage, carrots, and turnips	0	1
Salt and pepper - - -	0	0 $\frac{1}{2}$
Water, 5 $\frac{1}{2}$ quarts - -	0	0
<hr/>		
Produce, 6 quarts of a rich and high-flavoured pottage }	0	11
<hr/>		

In the two last trials, Dr. Johnston omitted the bacon, both on account of its being an expensive ingredient, and from its flavour being in some of the others too predominant. On the whole of the trials, which he made with the utmost care and attention, he gives it as his opinion, that ox-cheek or shin of beef claim the preference, to any coarse pieces without bones, which he is convinced add much to the richness and grateful taste of the pottage. Compare page 49, note.

As the following table may be of use in ascertaining, by experiment, the best mode of variously combining wheaten-flour with other substances; and of knowing the loss of weight sustained by baking, I have inserted it in this place. (See Hints; page 26, and Note).

11	} Produce 6 quarts of a rich and high-flavoured porrage
0	
0	} Water, 2 1/2 quarts
0	
0	} Salt and pepper
0	
0	} Cabbage, carrots, and turnips
0	
0	} Potatoes, 3 lb.
0	

In the two last trials, Dr. Johnson omitted the bacon, both on account of its being an expensive ingredient, and from its flavour being in some of the others too predominant. On the whole of the trials, which he made with the utmost care and attention, he gives it as his opinion, that ox-check or thin of beef claim the preference, to any other pieces without bones, which he is convinced add much to the richness and grateful taste of the porrage. Compare page 40, note.

An

As

Visualling Office, Dec. 8, 1795.

An Account, shewing the produce of seven pounds (being the stipulated quantity allowed for two quarter loaves) of fundry mixtures of Grain, and of Grain and Potatoes, directed to be baked into bread:—Shewing the weight of dough made therefrom, the quantity required for making two quarter loaves, according to the usual custom of the town Bakers, being 9lb. 10 oz. or 4lb. 13 oz. each;—the weight it turned out over or short thereof and the weight of the bread when taken out of the oven, and when cold. Prepared in pursuance of a Letter from the Hon. DUDLEY RYDER, Chairman of the Corn Committee of the Hon. House of Commons, dated the 28th November last.

DESCRIPTION of BREAD.

No.	DESCRIPTION of BREAD.	FLOUR.		DOUGH.				BREAD.	
		Weight allowed for making two quarter loaves, at 3lb 8 oz. each.	Weight after being properly mixed with yeast, salt, & water.	Over or short of the weight allowed.	Over.	Short.	Weight when taken out of the oven.	Weight when cold.	
1	2-3ds Wheat, 1-3d Indian Corn	7	11 9	1 15	—	—	8 10	8 7	
2	2-3ds ditto, 1-3d Barley	7	10 14	1 4	—	—	8 7	8 3½	
3	2-3ds ditto, 1-3d Oatmeal	7	10 8	— 14	—	—	8 9	8 4½	
4	2-3ds ditto, 1-3d Rye	7	10 15	1 5	—	—	8 9	8 5¼	
5	2-3ds ditto, 1-3d Potatoes	7	8 15	—	—	11	8 1½	7 12½	
6	3-5ths ditto, 1-5th Indian Corn, and 1-5th Potatoes	7	9 12	— 2	—	—	8 11¾	8 7	
7	3-5ths ditto, 1-5th Barley, and 1-5th Potatoes	7	9 6	—	—	4	9 3½	8 14¼	
8	3-5ths ditto, 1-5th Oatmeal, and 1-5th Potatoes	7	9 10	—	—	—	8 12	8 7½	
9	3-5ths ditto, 1-5th Rye, and 1-5th Potatoes	7	9 5	—	—	4	8 14	8 9½	
10	3-5ths ditto, 1-5th Indian Corn, and 1-5th Barley	7	11 3	1 9	—	—	9 1¼	8 13½	
11	3-5ths ditto, and 2-5ths Potatoes	7	8 10	—	—	1	7 11	7 9	

No.	Description of the Commodity	HONEY		DOVE		BEEVE	
		lb.	oz.	lb.	oz.	lb.	oz.
1	1 lb. of Honey	1	0	1	0	1	0
2	1 lb. of Dove	1	0	1	0	1	0
3	1 lb. of Beeve	1	0	1	0	1	0
4	1 lb. of Honey	1	0	1	0	1	0
5	1 lb. of Dove	1	0	1	0	1	0
6	1 lb. of Beeve	1	0	1	0	1	0
7	1 lb. of Honey	1	0	1	0	1	0
8	1 lb. of Dove	1	0	1	0	1	0
9	1 lb. of Beeve	1	0	1	0	1	0
10	1 lb. of Honey	1	0	1	0	1	0
11	1 lb. of Dove	1	0	1	0	1	0
12	1 lb. of Beeve	1	0	1	0	1	0
13	1 lb. of Honey	1	0	1	0	1	0
14	1 lb. of Dove	1	0	1	0	1	0
15	1 lb. of Beeve	1	0	1	0	1	0
16	1 lb. of Honey	1	0	1	0	1	0
17	1 lb. of Dove	1	0	1	0	1	0
18	1 lb. of Beeve	1	0	1	0	1	0
19	1 lb. of Honey	1	0	1	0	1	0
20	1 lb. of Dove	1	0	1	0	1	0
21	1 lb. of Beeve	1	0	1	0	1	0
22	1 lb. of Honey	1	0	1	0	1	0
23	1 lb. of Dove	1	0	1	0	1	0
24	1 lb. of Beeve	1	0	1	0	1	0
25	1 lb. of Honey	1	0	1	0	1	0
26	1 lb. of Dove	1	0	1	0	1	0
27	1 lb. of Beeve	1	0	1	0	1	0
28	1 lb. of Honey	1	0	1	0	1	0
29	1 lb. of Dove	1	0	1	0	1	0
30	1 lb. of Beeve	1	0	1	0	1	0

The above is a list of the commodities of the Hon. House of Commons which the year 1754 was the first year of the reign of King George the Third. The list is divided into three parts, the first part containing the names of the commodities, the second part containing the quantity of each commodity, and the third part containing the value of each commodity. The list is arranged in alphabetical order, and the commodities are grouped into three classes, namely, Honey, Dove, and Beeve. The quantities are given in pounds and ounces, and the values are given in pounds and shillings. The list is a valuable document, as it shows the state of the economy of the country at that time, and the quantities of the commodities which were imported and exported.