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CHAP. XIV.

Of the Abuse of Agriculture and Population.

HAVE taken notice above of two performances, wherein the authors, with equal ability, have treated of the numbers of mankind; a fubject which has a very close connection with political oeconomy.

Although (as I have faid) I do not pretend to decide between them as to the point in dispute, I find that in this chapter I shall be naturally led into a chain of reasoning very contrary to that of Mr. Wallace, which is a thing I should have dispensed with, did not the merit of his performance in the eyes of the learned world appear fufficient to draw my attention.

Agriculture is without all doubt the foundation of multiplication, which must ever be in proportion to it; that is, to the earth's productions, as has been faid. But it does not follow, that in proportion to multiplication those produced must of course become useful to one another, and useful to the society in general. Now I consider multiplication as no otherwise useful to a state, than in fo far as the additional number becomes fo, to those who are already existing, whom I consider as the body-politic of the society. If it therefore happens, that an additional number produced do no more than feed themselves, then I perceive no advantage gained to the fociety by their production. If, without rendering any equivalent fervice, they are fed by others, there is a lofs.

Agriculture may be faid to be carried to its utmost extent, when the earth is fo laboured as to produce the greatest quantity of fruits poslible for the use of man; and in judging of the improvement of two fpots of ground of the fame extent, that may be faid to be most improved which produces the greatest quantity of food: but as to population, the question does not stop there; for let the CHAP. XIV.

quantity be equal on both, yet if the inhabitants of the one be more frugal livers than those of the other, this circumstance alone will make an inequality. If agriculture therefore be confidered only with respect to population, we must consider that country as the best peopled, where productions are the most abundant, and where the inhabitants are the most sober. Thus much with regard to the extent of agriculture and population: we come now to confider the inconveniencies which may refult to a fociety from an over-firetch, or from what I call an abuse of either the one or the other.

OF POLITICAL OECONOMY.

I call every thing an abuse in society which implies a contradiction to the spirit of it, or which draws along with it an inconveniency to certain classes, which is not compensated by the general welfare.

The political oeconomy of government is brought to perfection, when every class in general, and every individual in particular, is made to be aiding and affifting to the community, in proportion to the affiftance he receives from it. This conveys my idea of a free and perfect fociety, which is, a general tacit contract, from which reciprocal and proportional services refult universally between all those who compose it.

Whenever therefore any one is found, upon whom nobody depends, and who depends upon every one, as is the case with him who is willing to work for his bread, but who can find no employment, there is a breach of the contract, and an abuse. For the same reason, if we can suppose any person entirely taken up in feeding himfelf, depending upon no one, and having nobody depending on him, we lose the idea of fociety, because there are no reciprocal obligations between fuch a person and the other members of the fociety.

Those who are for employing the whole of a people in agriculture may answer, that all their time cannot be employed in this occupation, and that in the intervals they may apply themselves to fupply reciprocal wants.

I very readily agree, that any person, who would calculate his sabour in agriculture, purely for his own subsistence, would find abundance of idle hours. But the question is, whether in good oeconomy such a person would not be better employed in providing nourishment for others, than in providing for any other want. When he provides food, he surely provides for a want; and experience shews, that it is better for a man to apply close to one trade, than to turn himself to several.

Hence I conclude, that the best way of binding a free society together, is by multiplying reciprocal obligations, and creating a general dependence between all its members. This cannot be better effected, than by appropriating a certain number of inhabitants, for the production of the quantity of food required for all, and by distributing the remainder into proper classes for supplying every other want. I say farther, that this distribution is not only the most rational, but that mankind fall naturally into it; and misery attends and has ever attended those who have been found without a particular employment.

It must not be concluded from this reasoning, that abuse is always implied when we find any of the classes of the free hands of a state casually employed in agriculture.

There is such a variety of circumstances in every country, that without a peculiar talent of laying principles together, so as to answer every combination, the most perfect theory which can be proposed must appear defective.

In countries ill-improved, where industry begins to take root, we are not to conclude, that good policy requires a sudden and immediate separation between the dwellings of the husbandmen and free hands: Sudden revolutions are constantly hurtful, and a good statesman ought to lay down his plan of arriving at perfection by gradual steps.

If he finds, as is the case of rude and uncivilized societies, that many are occupied, partly, in providing subsistence for their own family,

family, partly, in other useful pursuits, he may by degrees detach as many as he can from every other branch of industry, except that of agriculture. The most wealthy are the most proper to carry this branch to any degree of perfection. The landed men ought to be encouraged by every means to apply to the study of farming. This employment has been considered as honourable in all ages of the world, and very well fuits the rank, the interest, and the amusement of gentlemen.

The next ftep is to introduce manufactures into the country, and to provide a ready market abroad for every fuperfluous part of them. The allurement of gain will foon engage every one to purfue that branch of industry which fucceeds best in his hands. By these means many will follow manufactures and abandon agriculture; others will prosecute their manufactures in the country, and avail themselves at the same time, of small portions of land, proper for gardens, grass for cows, and even for producing certain kinds of fruit necessary for their own maintenance.

This I do not confider as a species of farming. It is more properly, in a political light, a fort of village life, only the village here appears dispersed over a large extent; and I call it a village life, because here the occupation of the inhabitants is principally directed towards the profecution of their trades: agriculture is but a fubaltern confideration, and will be carried on fo far only, as it occasions no great avocation from the main object. It will however have the effect to parcel out the lands into finall possesfions: a system admirably calculated for the improvement of the foil, and advantageous to population, when the spirit of industry is not thereby checked. This is the case when such possessors apply totally to agriculture, and content themselves with a bare subfiftence from it, without profecuting any other branch of industry, or forming any plan of ambition for themselves, or for their children's emerging from fo circumscribed a sphere of life: from this alone proceeds, in most countries, the inconveniency of a minute fubdivision of land property.

We shall presently see, by various examples, the truth of this proposition; and from what observations I have been able to make, it appears, that a great inconvenience flows from it; the property of the lands, and not the bare pessession of them, is vessed in the lower classes. While they only remain as tenants, the interest of the proprietor, on one hand, will lead him to incorporate these small possessions into larger farms, the moment the possessions, relaxing from their principal occupation, (industry) are no longer able to pay a rent above the value of the grounds when let in farms; and the interest of these tenants, on the other hand, will frequently lead them to abandon such small possessions, when the prosecution of their industry demands a change of habitation. Thus the interest of agriculture will go hand in hand with that of industry, and classes will separate their habitations, according as their respective interests require.

It is certainly the interest of every landlord, whose land is ill improved, to multiply habitations upon it, providing he makes choice of such people as can live by some other branch of industry than bare agriculture: and, in many cases, it may be his advantage to incorporate his lands into farms as soon as they are fully cultivated. By this plan he will advance the improvement of his land; he will multiply the useful inhabitants; and he will at the same time share the profits of their industry beyond the value of the land rent.

By these means has the woollen manufacture in England, and the linen in Ireland and Scotland been greatly augmented. But as the improvement of land goes on, this oeconomy will decline: towns will swell in consequence of the principles we are now going to deduce; the lands will become more thinly inhabited; and farms will by degrees grow more extensive. I appeal to experience for the justices of this opinion.

Hence it plainly appears, that, in every light this matter can be represented, we fill find it impossible to employ usefully above a certain part of a people in agriculture. The next question is,

how to determine the just proportion. For this purpose we must have recourse to facts, not to theory. We have, in a former chapter, examined the state of this question with regard to one country. I shall here only add, that, in proportion to the culture of the soil, and to the number of crops it is made to produce, a greater or less number will be required; and in proportion to the surplus of food above what is necessary to maintain the labourers, will a number of free hands be provided for. If therefore a species of agriculture can be found established, which produces little or no surplus, there little or no industry can be exercised; few wants can be supplied: this will produce a wonderful simplicity of manners, will ruin the system of modern policy, and produce what I must call an abuse. Let me look for some examples, in order to set this question in a clearer light.

In the wine-provinces of France, we find the lands which lie round the villages divided into very fmall lots, and there cultivation is carried to a very extraordinary height. These belong in property to the peasants, who cultivate the vines. No frugality can be greater than in the consumption of this produce, and the smallest weed which comes up among the grain, is turned to account, for the food of animals. The produce of such lands, I may fay, is intirely consumed by the proprietor and his family, who

are all employed in the cultivation, and there is no fuperfluous quantity here produced for the maintenance of others. Does not this refemble the diffribution of lands made by the Romans in favour of 5000 Sabine families, where each received two plethra of ground. [See Numbers of Mankind, p. 117.] Now let me examine the political flate of agriculture, and of other labour performed

by my French vine-dreffer.

By the fuppolition we imply, that the bit of land is fufficient for maintaining the man and his family, and nothing more; he has no grain to fell, no food can by him be fupplied to any other perfor whatever; but the flate of other lands capable of yielding a furplus, fuch as the vineyard, produces a demand for his labour.

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This labour, confidered with refpect to the vine-dreffer, is a fund for providing all his wants in manufactures, falt, &c. and what is over must be confidered as his profits, out of which he pays the royal impositions. The same labour, considered with regard to the proprietor of the vineyard, enters into that necessary deduction out of the fruits, which, when deducted, leaves the remainder, which we call surplus, or what answers to the land rent. This belongs to the proprietor, and becomes a fund for supplying all his wants.

Here we have an idea of fociety. The vine-dreffer depends upon the proprietor for the price of his labour; the proprietor upon the vine-dreffer for his furplus. But did we fuppose all the kingdom parcelled out, and laboured, as the fpot which lies round the village, what would become of the vine-dreffer with regard to all his other wants; there would be no vines to drefs, no furplus nourishment any where found, consequently no employment, not even life, for those who had no land. From this example we discover the difference between agriculture exercised as a trade and as a direct means of fubliffing, a diffinction to be attended to, as it will very frequently occur in the profecution of our fubject. We have the two species in the vine-dreffer: he labours the vineyard as a trade, and his fpot of ground for fubliftence. We may farther conclude, that, as to the last part, he is only useful to himself; but, as to the first, he is useful to the society, and becomes a member of it; consequently, were it not for his trade, the flate would lofe nothing, though the vine-dreffer and his land were both fwallowed up by an earthquake. The food and the confumers would both difappear together, without the leaft political harm to any body: confequently, fuch a species of agriculture is no benefit to a state; and confequently, neither is that species of multiplication, implied by fuch a distribution of property, any benefit. Thus an over-extenfion of agriculture and division of lands becomes an abuse, and fo, confequently, does an over-multiplication.

Here I am obliged to conclude, that those passages of Roman authors which mention the frugality of that people, and the small

extent of their possessions cannot be rightly understood, without the knowledge of many circumstances relative to the manners of those times. For if you understand fuch a distribution of lands to have extended over all the Roman territory, the number of the citizens would have far exceeded what they appear to have been by the Cenfus, and even furpass all belief. But farther, I may be allowed to ask, whether or no it be supposed that these frugal Romans laboured this fmall portion of lands with their own hands and confumed the produce of it? If I am answered in the affirmative, (which is neceffary to prove the advantages of agriculture's being exercifed by all the classes of a people) then I ask, from whence were the inhabitants of Rome, and other cities, fupposed to come; who fed the armies when in the field? If these were fed by foreign grain imported, or plundered from their neighbours, where was the advantage of this fubdivision of lands, and of this extensive agriculture, which could not feed the inhabitants of the flate? If it be faid, that notwithstanding this frugal distribution of property among the citizens, there was still found furplus enough to supply both Rome and the armies, will it not then follow, that there was no necessity for employing all the people in agriculture, fince the labour of a part might have fufficed.

That number of hulbandmen, therefore, is the best, which can provide food for all the state; and that number of inhabitants is the best, which is compatible with the full employment of every one of them.

Idle mouths are only useful to themselves, not to the state; confequently, are not an object of the care of the state, any farther than to provide employment for them; and their welfare (while they remain useless to others) is, in a free country, purely a matter of private concern. Let me take another example for the farther illustration of this matter.

Those who travel into the southern provinces of Spain, find large tracts of land quite uncultivated, producing only a scanty pasture for herds of the lesser cattle. Here and there are found interspersed some spots of watered lands, which, from the profusion of every VOL, I.

gift which nature can bestow, strike a northern traveller with an idea of paradife. In fuch places villages are found, and numbers of inhabitants. It must be allowed that industry and labour do not here go forward as in other countries; but to fupply this want charity steps in. Charity in Spain (in proportion to its extent) is as powerful a principle towards multiplication as industry and labour. Whatever gives food gives numbers: but charity cannot extend beyond fuperfluity, and this must ever be in proportion to induftry. These watered lands are well laboured and improved. The value of them in one fense, is in proportion to their fertility, and the furplus of the labourers should naturally be given for an equivalent in money or work: but this equivalent cannot be found, because the consumers have neither the one nor the other. If the Spaniards, therefore, were not the most charitable people upon earth, it is very plain that the labouring of these watered lands would diminish, until it came upon a level with the wealth and industry of the confumers. But here it is otherwise: labour goes on mechanically, and without combination of circumstances, and the poor live in ease, in proportion to the plenty of the year.

Here then is a third principle of multiplication. The first is slavery, or a violent method of making mankind labour; the second is industry, which is a rational excitement to it; the third is charity, which resembles the manna in the desert, the gift of God upon a very extraordinary occasion, and when nothing else could have preserved the lives of his people. Whether, in all cases, this principle of christianity advances the prosperity of a modern society (when complied with from obedience to precept, without confulting reason as to the circumstances of times and situations) is a question which lies out of my road to examine. The action, considered in the intention of the agent, must in every case appear highly beautiful, and we plainly see how far it contributes to multiplication, though we do not so plainly perceive how this again is advantageous to society.

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Now if we examine the flate of agriculture in the territory of this Spanish village, we find, upon the whole, no more surplus of fruits than upon the French vine dresser's portion of land; consequently, if all Spain was laboured and inhabited like this village and its small garden, as it is called, it would be the most populous country in the world, the most simple in the manner of living; but it never could communicate the idea of a vigorous or a flourishing state. It is the employment alone of the inhabitants which can impress that character.

Now in this last example, what a number of free hands do we find! are not all the poor of this class? Would it not be better if all these by their labour could purchase their subsistence, than be obliged to receive it in the precarious manner they do? Can one suppose all these people industrious, without implying what I call supersuity of labour? Is not this luxury, according to my definition of it? Where would be the harm if the Spanish farmer, who gives a third of his crop in charity, should in return receive some changes of raiment, some convenient furniture for his house, some embellishment to his habitation; these things would cost him nothing; he would receive them in exchange for what he now gives from a principle of charity, and those who have a precarious, would have a certain livelihood. Let us travel a little farther in search of the abuse of population.

In Germany, we find many finall towns, formed into corporations, which enjoy certain privileges. The freedom of fuch towns is not eafily purchased; and one, upon confidering outward circumstances, must be not a little surprized to hear of the sums refused, when offered, to obtain it. Round these towns there is a small territory divided into very small portions, and not able to maintain the inhabitants: these lands therefore are infinitely overstocked with husbandmen; for every proprietor, less or more, concerns himself with the cultivation. Here, one who would: aspire to extend his possession would, according to the sentiment of Manius Curius Dentatus, certainly be considered as a dangerous citizen, and a hurtful

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member of the fociety. Those lots are divided among the children of the proprietors, who are free of the town, by which means they are conflantly fplitting by multiplication, and confolidating by death, and by marriage: these nearly balance one another, and property remains divided as before. A stranger is at a loss to find out the reason why the liberty of so poor a little town should be so valuable. Here it is; first there are certain advantages enjoyed in common, fuch as the privilege of pasture on the town lands, and others of a like nature; but I find the charges which the burgeffes are obliged to pay, may more than compensate them. The principal reason appears to be, that no one who has not the liberty of the town, can fettle in a way of industry so as to marry and have a family: because without this his labour can only be directed towards furnishing the wants of peasants who live in villages; these are few, and little ingenuity is required for it. In towns there is found a greater diversity of wants, and the people there have found out mechanically, that if strangers were allowed to step in and supply them, their own children would flarve; therefore the heads of the corporation, who have an interest to keep up the price of work. have also an interest to hold the liberty of their town at a high value. This appears to me a pretty just representation of the present flate of fome towns I have feen, relative to the prefent object of inquiry.

But as industry becomes extended, and trade and manufactures are established, this political occonomy must disappear.

Such a change, however, will not probably happen without the interpolition of the fovereign, and a new plan of administration; what else can give a turn to this spirit of idleness, or rather, as I may call it, of this trisling industry? Agriculture can never be a proper occupation for those who live in towns: this therefore is an abuse of it, or rather indeed an abuse of employment.

Ease and plenty can never enter a little town, but by the means of wealth; wealth can never come in but by the produce of labour going out; and when people labour purely for their own subfiftence,

they only make the little money they have circulate, but can acquire nothing new; and those who with difficulty can maintain themfelves, can never hope to increase their numbers.

If in spite of the little industry set on foot in such towns, the generative faculty shall work its effect and increase numbers, this will make the poor parents still divide, and misery will ensue: this again may excite compassion, and that will open the chests of those who have a charitable disposition: hospitals are founded for the relief of the poor, they are quickly filled, and as many necesfitous remain as ever. The reason is plain; the hospital applies a palliative for the abuse, but offers no cure. A tree is no sooner discharged of its branches than it pushes new ones. It has been faid, that numbers are in proportion to food; confequently, poor are in proportion to charity. Let the King give his revenue in charity, he will foon find poor enough to confume it. Let a rich man spend 100,000 l. a year upon a table, he will find guests (the best in the kingdom) for every cover. These things, in my way of considering them, are all analogous, and flow from the fame principle. And the mifery found in these little German towns, is another modification of the abuse of population. These examples shew the inconveniencies and abuses which refult from a misapplication of inhabitants to agriculture, which produces a population more burthenfome than beneficial to a modern flate.

If the fimplicity of the antients is worthy of imitation, or if it appears preferable to the prefent fystem, which it is not my business to decide, then either flavery must be introduced to make those subsist who do not labour, or they must be fed upon charity. Labour and industry can never, I think, be recommended on one hand, and the effects of them proscribed on the other. If a great body of warlike men (as was the case in Sparta) be considered as effential to the well being of the state; if all trade and all superfluity be forbid amongst them, and no employment but military exercises allowed; if all these warriors be fed at public tables, must you not either have a set of helotes to plow the ground for them, or a parcel of charitable Spanish farmers to feed them gratis.

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Thus much I have thought might be of use to say to illustrate the principles I have laid down. I find these very contrary to the reasoning which runs through the whole of the performance which I mentioned above, and which I have had in my eye. A more particular examination of it might be useful, and even amusing; but it would engage me in too long a disquisition for the nature of this work. I cannot however help, in this place, adding one observation more, in consequence of our principles, which seems contrary to the strain of our ingenious author's reasoning. I say seems, because almost all difference of opinion upon such subjects proceeds from the defect

of language in transmitting our ideas when complex or abstract. The effect of difeases which sweep off numbers of people does not effentially diminish population, except when they come fuddenly or irregularly, any more than it would necessarily dispeople the world if all mankind were to be fwept off the flage at the age of forty fix years. Lapprehend that in man, as in every other animal. the generative faculty is more than able to repair all loffes occafioned by regular difeafes; and I have shewn, I think, more than once, that multiplication never can flop but for want of food. As long then as the labour of man can continue annually to produce the fame quantity of food as at prefent, and that motives are found to make him labour, the fame numbers may be fed. and the generative faculty, which from one pair has produced fo many millions, would certainly do more than keep up the flock, although no person were to pass the age above mentioned. Here is the proof; was the life of man confined to forty fix years, the flate of mortality would be increased in the proportion which those who die above forty fix bear to those who die under this age. This. proportion is, I believe, as 1 to 10, confequently, mortality would increase increase increase increase would be kept up by increase upon births; and furely the generative faculty of man far exceeds this proportion, when the other requifites for propagation, to wit. food, &c. are to be found, as by the supposition.

CHAP. XV.

Application of the above Principles to the State of Population in Great-Britain.

A LETTER from Dr. Brakenridge, F. R. S. addressed to George Lewis Scott, Esq. which I found in the Danish Mercury for March 1758, furnishes me with a very good opportunity of applying the principles we have been laying down to the state of population in Great-Britain. I shall therefore, according to my plan, pass in review that gentleman's opinion, without entring upon any refutation of it. I shall extract the propositions he lays down, examine the conclusions he draws from them, and then shew wherein they differ from those which result from the theory established in this inquiry.

The author's calculations and fuppositions as to matters of fact shall be taken for granted, as I believe the first are as good as any that can be made, upon a subject where all the data required for solving the problem are quite a piece of guess-work.

I must follow the Mercury, not having the original.

PROP. I. After a very close examination, fays our author, I find, that our islands gain, as to population, absolutely no more than what is requisite for repairing their losses, and that, in England itself, numbers would diminish, were they not recruited from Ireland and Scotland.

Prop. II. Men, able to carry arms, that is from 18 to 56 years, make, according to Dr. Halley, the fourth part of a people; and when a people increase in numbers, every denomination, as to age, increases in that proportion: consequently in England, where the number of inhabitants does not exceed fix millions, if the annual augmentation upon the whole do not exceed 18,000, as I am pretty

fure it does not, the yearly augmentation of those fit to carry arms will be only 4,500.

PROP. III. In England, burials are to births, as 100 is to 113. I fuppose that, in Scotland and Ireland, they may be as 100 is to 124. And as there may be, in these two last kingdoms, about two millions and a half of inhabitants, the whole augmentation may be flated at 15,000; and confequently that, of fuch as are fit to carry arms, at 3,750. Add this number to those annually produced in England, and the fum total of the whole augmentation in the British isles will be about 8,250.

PROP. IV. The strangers, who arrive in England, in order to fettle, are supposed to compensate those who leave the country with the fame intent.

Prop. V. It is out of this number of 8,250, that all our losses are to be deduced. If the colonies, wars, and navigation, carry off from us annually 8,000 men, the British isles cannot augment in people: if we lose more, numbers must diminish.

PROP. VI. By calculations, fuch as they are, our author finds, that, upon an average of 66 years, from 1690 to 1756, this number of 8000 have been annually loft, that is, have died abroad in the colonies, in war, or on the account of navigation.

PROP. VII. That, fince the inhabitants of Britain and Ireland are about 8,000,000, and that the augmentation is annually about 8000, we may conclude in general for all Europe, that, for every million of inhabitants, there is an annual augmentation of 1000; confequently, every thousand men flain in war must destroy all the augmentation of a million of inhabitants during a year. Confequently France, which contains 14 millions, according to Sir William Petty, having loft above 14,000 men a-year, during the fame 66 years, cannot have augmented in population. •

PROP. VIII. That the progress of trade and navigation augmenting the lofs of people by fea, must consequently have diminished population over all Europe.

PROP. IX. The exportation of our corn proves what the above propositions have demonstrated. For supposing the progress of agriculture to compensate the additional quantity distilled of late years, there is ftill i of the crop exported, which proves that our numbers are fmall, and that they do not augment.

From these propositions our author concludes, that what stops multiplication in the British isles is, 1st, That living in celibacy is become a-la-mode: 2dly, That wars have been carried on beyond the nation's force: 3dly, That the use of spirituous liquors destroys great numbers of inhabitants.

I shall now shortly apply the principles I have been laying down, in order to refolve every phenomenon here described, as to the population of Great Britain. These I shall willingly take for granted, as it is of no confequence to my reasoning, whether they be exact or not: it is enough that they may be fo; and the question here is only to account for them.

England, fays he, would diminish in numbers, were it not recruited from Scotland and Ireland. This, I fay, is a contingent, not a certain confequence: for did those grown-up adventurers cease to come in, the inhabitants of England themselves would undoubtedly multiply, provided an additional number of breeders could be found, able to bring up their children. Now the importation of grown men into a country in fo far refembles the importation of flaves into our colonies, that the one and the other diminishes the price of labour, and thereby prevents marriage among certain classes of the natives, whose profits are not sufficient for bringing up a family: and when any fuch do marry notwithflanding, they do not multiply, as has been faid. Now were the Scots and Irish to come no more into England, the price of labour would rife; those who now cannot bring up children, might then be enabled to do it, and this would make the English multiply themselves; that is, it would augment the number of their own breeders. On the other hand, did the price of labour continue too low to prove a fufficient encouragement for an addi-

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The reprefentation he gives of the flate of population in these countries, is one modification of what I have called a moral incapacity of a people's increasing in numbers. It is just so in Africa, where the inhabitants are fold; just so in Switzerland, and in many mountainous countries, where inhabitants defert, in order to seek their fortunes elsewhere. The national stock remains at an equal standard, and the augmentation upon births above burials is constantly in proportion to the exportation of inhabitants. Let this proportion rise ever so high, an increase of national population is noways effentially to be implied from this phenomenon alone, but must proceed from other causes.

I can find nothing advanced by our author to prove, or even to induce one to believe, that had the lives of those eight thousands been yearly preferved from extraordinary dangers, numbers would have augmented. England enjoyed in a manner 26 years peace after the treaty of Utrecht. For many years before, a very destructive war had been carried on. Had the bills of births been produced from 1701 to 1713, had they been compared with those from this last period to 1739, when the Spanish war began, had we feen a gradual augmentation from year to year during those last 26 years, fuch as might be expected from the prefervation of a confiderable number at least of the 8,250 able healthy men, just in the period of life fit for propagation, one might be tempted to conclude, that the preceding war had done hurt to population, by interrupting the propagation of the species. But if, by comparing the bills of births for a confiderable number of years, in war and in peace, one can discover no sensible difference, it is very natural to conclude, either that those wars did not destroy many breeders,

or that others must have slipt in directly, and bred in the place of those who had been killed. What otherwise can be the reason why the number which our author supposes to have been destroyed abroad, should so exactly compensate the annual augmentation, but only that those nations are stocked to the full proportion of their subsistence: and what is the reason why, after a destructive war, which, by the suddenness of the revolution, sweeps off numbers of the grown men, and diminishes the original slock, numbers should in a few years get up to the former slandard, and then stop a-new.

From our author's representation of the bills of births and deaths, I should be apt to suspect, in consequence of my principles, that upon a proper examination it would be found, that, in those years of war, the proportion of births to deaths had been higher than in years of peace, because more had died abroad. And, had the slaughter of the inhabitants gone gradually on, increasing every year beyond the 8,250, I am of opinion, that the proportion of births might very possibly have kept pace with it. On the contrary, during the years of peace, the proportion should have diminished, and had nobody died out of the country at all, the births and deaths would have become exactly equal.

From what I have here faid, the reader may perceive, that it is not without reason that I have treated the principles relating to my subject in general, and that I avoid as much as possible to reason from facts alledged as to the state of particular countries. Those our author builds upon may be true, and may be false: the proportion of births and deaths in one place is no rule for another; we know nothing exactly about the state of this question in the British isles; and it may even daily vary, from a thousand circumstances. War may destroy population as well as agriculture, and it may not, according to circumstances. When the calamity falls upon the breeders, and when these are supposed the only people in the country in a capacity of bringing up their children, births will soon diminish. When it destroys the indigent, who cannot

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The long wars in Flanders in the beginning of this century interrupted agriculture now and then, but did not deftroy it. That in the Palatinate in the end of the last ruined the country so, that it has hardly as yet recovered it. War has different effects, accord-

ing to circumstances.

OBJ. The population of the British isles is not stopt for want of food, because one-fixth part of the crop is annually exported. I answer, That it is still stopt for want of food, for the exportation only marks that the home demand is fatisfied; but this does not prove that the inhabitants are full fed, although they can buy no more at the exportation-price. Those who cannot buy, are exactly those who I say die for want of sublistence: could they buy, they would live and multiply, and no grain perhaps would be exported. This is a plain confequence of my reasoning; and my principal point in view throughout this whole book, is to find out a method for enabling those to buy who at present cannot, and who therefore do not multiply; because they can give no equivalent to the farmers for their superfluity, which consequently they export. By this application of our principles, I have no occasion to call in question our author's facts. It is no matter what be the state of the case: if the principles I lay down be just, they must refolve every phenomenon.

CHAP. XVI.

Why are some Countries found very populous in respect of others, equally well calculated for Improvement?

THIS question comes immediately under the influence of the principles already laid down, and must be resolved in consequence of them. It is with a view to make the application of these, that I have proposed it; and, in the examination, we shall

prove their justness, or discover their defects.

It may be answered in general, that every such difference must proceed from what I call the spirit of the government and of the people, which will not only decide as to numbers, but as to many other things. I must however observe, that the question in itself is of little importance, if nothing but numbers be considered; for of what consequence is it to know how many people are in a country, when the employment of them does not enter into the inquiry? Besides, it is only by examining the employment of a people, that I can form any judgment as to this particular. But as the numbers of mankind have been thought a point worthy of examination, I have chosen this title for a chapter, which might perhaps have more properly stood under another.

While flavery prevailed, I fee no reafon to conclude against the numbers of mankind, as I have said already: when slavery was abolished, and before industry took place, if my principles be true that period I think should mark the time of the thinnest population in Europe; for I believe it will be found, that there never was an example of a country, however fertile by nature, where every one was absolutely free; where there was little or no industry, nor labour, but in agriculture; and where, at the same time, there were many inhabitants, not beggars, nor living upon charity. I have mentioned this so often, that I am afraid of tiring

I shall begin my inquiry by asking what is understood by a country's being populous; for that term prefents different ideas, if circumstances are not attended to. I have heard it faid, that France was a defert, and that there was nobody found in it but in towns; while in England one cannot travel half a mile without finding a farm, perhaps two together; and in looking round, one fees the whole country divided into fmall poffeffions. The difference here found, I apprehend, decides nothing in favour of, or against the real populousness of the one or the other, but proceeds entirely from circumstances relative to agriculture, and to the distribution of free hands. These circumstances will be better understood from the examination of facts, than from the best theory in the world. Let one confider the flate of agriculture in Picardy and in Beauce, and then compare it with the practice in many provinces in England, and the contrast will appear striking. Were there more forest in England, to supply the inhabitants with fuel, I imagine many inclosures, useful at first for improving the grounds, would be taken away, and the country laid more open; were wolves less common in France, there would be found more feattered farms. Cattle there must be shut up in the night, and cannot be left in the fields; this is a great discouragement to inclosing. Where there are no inclosures, there are few advantages to be found from establishing the farm-house exactly upon the fpot of ground to be laboured; and then the advantages which refult to certain classes of inhabitants, from being gathered together, the farmers with the tradefmen, are found to preponderate. Thus the French farmers are gathered into villages, and the English remain upon their fields. But farther, in Picardy and Beauce agriculture has been long established, and, I imagine, that, at the time when lands were first broken up, or rather improved, their habitations must have been closer together.

CHAP. XVI. OF POLITICAL OECONOMY.

This drawing together of inhabitants must leave many ruinous possessions, and this, by the by, is one reason why people cry out upon the desolation of France, because ruinous houses (which may often times be a mark of improvement, not of desertion) are found in different places in the country. Paris has grown considerably in bulk, and from this it naturally happens, that the country round is purged of idle mouths. If this makes labour dear in the country, it is the city alone which suffers by it, the country must certainly be the gainers. So much for two species of population in two of the best inhabited countries of Europe. I now come to another in one of the worst.

In fome countries you find every farm-house surrounded with small huts, possessed by numbers of people, supposed to be useful to the farmer. These in Scotland are called cottars, (cottagers) because they live in cottages. If you consider them in a political light, they will appear to be inhabitants appropriated for agriculture. In one sense they are so, if by that you understand the garhering in of the fruits; in another they are not, if by agriculture you understand the turning up the surface. I bring in this example, and shall enlarge a little upon it, because I imagine it to be, less or more, the picture of Europe 400 years ago.

The Scotch farmer must have hands to gather in a feanty produce, spread over a large extent of ground. He has six cottars, I shall suppose; but these cottars must have wives, and these wives will have children, and all must be fed before the master's rent can be paid. It never comes into the cottar's head to suppose that his children can gain money by their labour; the farmer never supposes that it is possible for him to pay his rent without the affistance of his cottars to tend his cattle, and gather in his crop; and the master cannot go against the custom of the country, without laying his land waste. All these children are ready at the farmer's disposal; he can, without any expence, send what parcels of sheep he pleases, to different distances of half a mile or more, to feed upon spots of ground which, without the conveniency of these children,

would be entirely loft. By this plan of farming, landlords who have a great extent of country which they are not able to improve, can let the whole in a very few farms, and at the fame time all the spontaneous produce of the earth is gathered in and consumed. If you compare the rent of these lands with the extent, it appears very small; if you compare it with the numbers fed upon the farm, you will find that an estate in the highlands maintains, perhaps, ten times as many people as another of the same value in a good and fertile province. Thus it is in some estates as in some convents of the begging order, the more mouths the better cheer.

, I shall now suppose our modern policy to inspire an ingenious or public spirited lady to set up a weaver or two at a farm-house. The cottars begin to fpin; they will be a long time in attaining to a dexterity fufficient to appear at the weaver's house, in competition with others who are accustomed to the trade; confequently this manufacture will be long in a languishing condition; but if the undertaking is supported with patience, these obstacles will be got the better of. Those who tended herds of cattle for a poor maintenance. will turn themselves to a more profitable occupation; the farmer will find more difficulty in getting hands, he will complain, perhaps give way; the mafter will lofe a year's rent, and no body will take so extensive a farm; it must be divided, then it must be improved, and then it produces more grain upon one tenth, than perhaps formerly was produced upon the whole. This grain is bought with the price of fpinning; the parents divide with the children, who are fed, and spin in their turn. When this is accomplished, what is the revolution? Why, formerly the earth fed all the inhabitants with her spontaneous productions, as I may call them; now more labour is exercifed upon turning up her furface, this fhe pays in grain, which belongs to the ftrong man for his labour and toil; women and children have no direct share, because they have not contributed thereto, as they did in feeding cattle. But they fpin, and have money to buy what they have not force to produce; confequently

confequently they live; but as they become useless as cottars, they remove from their mother earth, and gather into villages. When this change is effected the lands appear less inhabited; ruinous huts (nay, villages I may call them) are found frequently, and many would be apt to conclude, that the country is depopulated; but this is by no means found to be the case, when the whole is taken together,

The fpirit therefore of the principal people of a country determines the employment of the lower classes; the employment of these determines their usefulness to the state, and their usefulness, their multiplication. The more they are useful, the more they gain, according to the definition of the contract of society; the more they gain, the more they can feed; and consequently the more they will marry and divide with their children. This increases useful population, and encourages agriculture. Compare the former with the present situation, as to numbers, as to ease, as to happiness!

Is it not plain, that when the earth is not improved it cannot produce fo much nourishment for man as when it is? On the other hand, if industry does not draw into the hands of the indigent, wherewith to purchase this additional nourishment, no body will be at a considerable first expence to break up grounds in order to produce it. The withdrawing therefore a number of hands from a trisling agriculture forces, in a manner, the husbandman to work the harder; and by hard labour upon a small spot, the same effect is produced as with slight labour upon a great extent.

I have faid, that I imagined the flate of agriculture in the Scotch farm, was a pretty just representation of the general flate of Europe about 400 years ago: if not in every province of every country, at least in every country for the most part. Several reasons induce me to think so: first, where there is no industry, nothing but the earth directly can feed her children, little alienation of her fruits can take place. Next, because I find a wonderful analogy between the way of living in some provinces of different countries with what I have been describing. Pipers, blue bonnets, and out meal, are VOL. I,

known in Swabia, Auvergne, Limoulin, and Catalonia, as well as in Lochaber: numbers of idle, poor, ufeless hands, multitudes of children, whom I have found to be fed, no body knows how, doing nothing at the age of fourteen, keeping of cattle and going to school, the only occupations supposed possible for them. If you ask why they are not employed, they tell you because commerce is not in the country: they talk of commerce as if it was a man, who comes to reside in some countries in order to feed the inhabitants. The truth is, it is not the fault of these poor people, but of those whose business it is to find out employment for them.

Another reason I derive from the nature of the old tenures, where we find lands which now produce large quantities of grain, granted for a mere trifle, when at the same time others in the neighbourhood of cities and abbies are found charged with considerable prestations. This I attribute to the bad cultivation of lands at that time, from which I infer, a small population. In those days of trouble and consusion, consistations were very frequent, large tracts of lands were granted to the great lords upon different revolutions, and these sinding them often deserted, as is mentioned in history, (the vassals of the former, being either destroyed or driven out to make place for the new comers) used to parcel them out for small returns in every thing but personal service. Such sudden and violent revolutions must dispeople a country; and nothing but tranquillity, security, order and industry, for ages together, can render it populous.

Befides these natural causes of population and depopulation (which proceed, as we have observed, from a certain turn given to the spirit of a people) there are others which operate with irresistible force, by sudden and violent revolutions. The King of Prussia, for example, attempted to people a country all at once, by profiting of the desertion of the Saltzburgers. America is become very poorly peopled in some spots upon the coast, and in some islands, at the expense of the exportation of millions from Europe and from Africa; such methods never can succeed in proportion to the attempt. Spain,

on the other liand, was depopulated by the expulsion of its antichristian inhabitants. These causes work evident effects, which there is little occasion to explain, although the more remote consequences of them may deserve observation. I shall, in another place, have occasion to examine the manner of our peopling America. In this place, I shall make a few observations upon the depopulation of Spain, and sinish my chapter.

That country is faid to have been antiently very populous under the government of the Moors. I am not fufficiently versed in the politics, oeconomy and manners of that people, to judge how far these might be favourable to population: what seems, however, to confirm what we are told, is, the large repositories they used for preferving grain, which still remain entire, though never once made use of. They watered the kingdoms of Valencia, Murcia and Granada. They gathered themselves into cities of which we still can discover the extent. The country which they now possess (though drier than Spain) furnishes Europe with confiderable quantities of grain. The palace of the Moorish King at Granada, shews a taste for luxury. The mosque of Cordona speaks a larger capital. All these are symptoms of population, but they only help one to guess. The numbers which history mentions to have been driven out, is a better way still of judging, if the sidelity of historians could be depended upon, when there is any question about numbers.

Here was an example of a country depopulated in a very extraordinary manner: yet I am of opinion, that the fearcity of inhabitants complained of in that country, for a long time after the expulsion, did not so much proceed from the effects of the loss suftained, as from the contrast between the spirit of those christians who remained after the expulsion, and their catholic deliverers. The christians who lived among the Moors, were really Moors as to manners, though not as to religion. Had they adopted the spirit of the subjects of Castile, or had they been governed according to their own, numbers would soon have risen to the former standard. But as

From this I ftill conclude, that no destruction of inhabitants by expulsion, captivity, war, pestilence or famine, is so permanently hurtful to population, as a revolution in that spirit which is necessary for the increase and support of numbers. Let that spirit be kept up, and let mankind be well governed, numbers will quickly increase to their former standard, after the greatest reduction possible: and while they are upon the augmenting hand, the slate will be found in more heart and more vigour, than when arrived even at the former height; for so soon as a state ceases to grow in prosperity, I apprehend it begins to decay both in health and vigour.

CHAP. XVII.

In what Manner and according to what Proportion do Plenty and Scarcity affect a People?

IN a former chapter I have examined this question, relatively to mankind fed by the hand of nature: I now come nearer home, and shall keep close to modern times, considering circumstances and effects which by daily experience we see and feel.

I have often faid, that numbers are in proportion to the produce of the earth. I now fay, that in most countries of Europe, the food produced in the country is nearly confumed by the inhabitants: and by nearly I understand, that the part exported bears a small proportion to the home-confumption. I do by no means establish this as an universal proposition; but I say it is true for the most part: and the intention of this chapter is to enable us to judge how far these limitations should extend. I allow, for example, that Holland, not producing food for its inhabitants, must draw it from some country which produces a fuperfluity, regularly: but let it be observed that Poland, Germany, Flanders, and England, with many other countries, contribute their contingents to fupply the demand of the Dutch; and of feveral large trading towns which have fmall territories. This being the case, the quota furnished by each country, must be in a small proportion to the respective quantity growing in it. But these are general conclusions upon vague suppositions, which throw no light on the question. I shall therefore endeayour to apply our reasoning to facts, and then examine conse-

There are few countries, I believe, in Europe more abounding in grain than England: I shall therefore keep that kingdom in my eye while I examine this matter. Nothing is more common than to hear that an abundant crop furnishes more than three years sub-

fiftence;

fiftence: nay, I have found it advanced by an author of confideration, (Advantages and difadvantages of France and Great Britain, &c. article Grain) that a plentiful year produces five years nourishment for the inhabitants. If this be a mistake, it may prove a very hurtful one in many respects. I am, on the contrary, apt to believe, that no annual produce of grain ever was fo great in England as to fupply its inhabitants fifteen months, in that abundance with which they feed themselves in a year of plenty. If this be the case, at what may we compute the furplus in ordinary good years? I believe it will be thought a very good year which produces full sublistence for fifteen months; and crops which much exceed this are, I believe, very rare. Here follow my reasons for differing so widely from the gentleman whom I have cited. If I am in the wrong, I shall have the most fensible pleasure in being fet right; and nothing will be so easy to any one who has access to be better informed as to facts than I can pretend to be.

"I confider all the yearly crop of grain in England as confumed at home, except what is exported; for I cannot admit that any confiderable quantity is lost: that it may be abused, misapplied, drank when it should be eat, I do not deny. These are questions which do not regard the prefent inquiry. Whether therefore it be confumed in bread, beer, spirits, or by animals, I reckon it consumed; and in a year when the greatest confumption is made at home, this I call the abundance with which the inhabitants feed themselves in years of plenty. Now I find in the performance above cited, a flate of exportations for five years, from 1746 to 1750 inclusive, where the quantity exported amounts in all to 5,289,847 quarters of all forts of grain. This is not one year's provision, according to Sir William Petty's calculation, of which we have made mention above. The bounties upon corn (continues the author abovementioned) have amounted in one year to 500,000 l. sterling. He does not mention the year, and I am little able to dispute that matter with him. I suppose it to be true; and still farther, let it be understood that the whole exportation was made out of the produce of one crop. I do not find that this fumanswers to the bounty upon 3,000,000 of quarters, which, according to Sir William Petty, make fix months provision. I calculate thus. The bounty upon wheat is 5s. a quarter, that upon rye 3s. 6d. that upon barley 2s. 6d. thefe are the species of grain commonly exported: cast the three premiums together, and divide by three, the bounty will come to 3s. 8d. at a medium; at which rate 500,000 L. sterling will pay the bounty of 2,727,272 quarters of grain. An immensequantity to be exported! but a very inconsiderable part of a crop supposed capable to maintain England for five years. It may be anfwered, that the great abundance of a plentiful year is confiderably diminished when a scanty crop happens to preceed it, or to follow upon it. In the first case, it is sooner begun upon; in the last, it fupplies the confumption in the year of fcarcity, confiderably. This I allow to be just; but as it is not uncommon to see a course of good years follow one another, the state of exportation at such times must certainly be the best, nay, the only method of judging of the real extent of fuperfluity.

On the other hand, I am apt to believe, that there never was a year of fuch fearcity as that the lands of England did not produce greatly above fix months fubfiftence, fuch as the people are used to take in years of fearcity. Were fix months of the most slender subfishence to fail, I imagine all Europe together might perhaps be at a loss to supply a quantity sufficient to prevent the greatest desolation by famine.

As I have no access to look into records, I content myself withe less authentic documents. I find then by the London news-papers, that, from the 9th of April to the 13th of August 1757, while great scarcity was felt in England, there were declared in the port of London no more than 71,728 quarters of wheat, of which 15,529 were not then arrived. So that the whole quantity there imported to relieve the scarcity, was 56,199 quarters. Not one month's provision for the inhabitants of that city, reckoning them at 800,000 souls! One who has access to look into the registers of the trade in grain, might in a moment determine this question.

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I come now to refolve a difficulty which naturally refults from this doctrine, and with which I shall close the chapter.

If it be true, that a crop in the most plentiful year is nearly confumed by the inhabitants, what becomes of them in years of fearcity; for nobody can deny, that there is a great difference between one crop and another. To this I answer, first, That I believe there is also a very great deceit, or common mistake, as to

the difference between crops: a good year for one foil, is a bad one for another. But I shall not enlarge on this; because I have no fufficient proof of my opinion. The principal reason upon which I found it, is, that it is far from being true, that the fame number of people confume always the fame quantity of food. In years of plenty every one is well fed; the price of the lowest industry can procure subsistence sufficient to bear a division; food is not fo frugally managed; a quantity of animals are fatted for use; all forts of cattle are kept in good heart); and people drink more largely, because all is cheap. A year of fcarcity comes, the people are ill fed, and when the lower classes come to divide with their children, the portions are brought to be very fmall; there is great oeconomy upon confumption, few animals are fatted for use, cattle look miserably, and a poor man cannot indulge himself with a cup of generous ale. Add to all these circumstances, that in England the produce of pasture is very considerable, and it commonly happens, that a bad year for grain, which proceeds from rains, is for the fame reason a good year for pasture; and in the estimation of a crop, every circumstance must be allowed to

From what has been faid I must conclude in general, that the best corn country in the world, provided slavery be not established, does not produce wherewithal fully to maintain, as in years of plenty, one third more than its own inhabitants; for if this should be the cafe, all the policy of man would not be able to prevent the multiplication of them, until they arose nearly up to the mean proportion of the produce in ordinary years, and it is only what exceeds this flandard, and proceeds from unufual plenty, which can be exported. Were plentiful years more common, mankind would be more numerous; were fcarcity more frequent, numbers would be lefs. Numbers therefore must ever be, in my humble opinion, in the ratio of food, and multiplication will never stop until the balance comes to be nearly even.

VOL. I.

CHAP. XVIII.

Of the Gauses and Consequences of a Country's being fully peopled.

IN the titles of my chapters, I rather feek to communicate a. I rough idea of the subject than a correct one. In truth and in reafon, there is no fuch thing as a country actually peopled to the full. if by this term numbers only are meant, without confidering the proportion they bear to the confumption they make of the productions of their country. I have in a former chapter established a diffinction between the physical and moral impossibility of increafing numbers. As to the physical impossibility, the case can hardly exift, because means of procuring sublistence from other countries, when the foil refuses to give more, seem, if not inexhaustible, at least very extensive. A country therefore fully peopled, that is, in a physical impossibility of increasing their numbers, is a chimerical and ufeless supposition. The subject here under confideration is, the fituation of a people, who find it their interest to seek for subsistence from abroad. This may happen, and commonly does, long before the country itself is fully improved: it decides nothing as to the intrinsic fertility of the foil, and proves no more, than that the industry of the free hands has made a quicker progress in multiplying mouths, than that of the farmers in providing fublishence. To illustrate this idea, let me propose the following question.

Is multiplication the efficient cause of agriculture, or is agriculture that of multiplication?

I answer, that multiplication is the efficient cause of agriculture, though I allow, that, in the infancy of fociety, the fpontaneous fruits of the earth, which are free to all, are the efficient cause of a multiplication, which may rife to the exact proportion of them; as has been faid above. This must be explained.

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I have already diffinguished the fruits of agriculture from the earth's fpontaneous production: I must farther take notice, that when I employ the term agriculture in treating of modern policy, I always confider it to be exercifed as a trade, and producing a furplus, and not as the direct means of fublifting, where all is confumed by the hufbandman, as has been fully explained above. We have faid, that it is the furplus produced from it, which proves a fund for multiplying inhabitants. Now there must be a demand for this furplus. Every person who is hungry will make a demand, but every fuch demand will not be answered, and will confequently have no effect. The demander must have an equivalent to give: it is this equivalent which is the fpring of the whole machine; for without that the farmer will not produce any furplus, and confequently he will dwindle down to the class of those who labour for actual fublistence. The poor, who produce children, make an ineffectual demand, and when they cannot increase the equivalent, they divide the food they have with the new comers, and prove no encouragement to agriculture. By dividing, the whole become ill fed, miferable, and thus extinguish. Now because it is the effectual demand, as I may call it, which makes the husbandman labour for the fake of the equivalent, and because this demand increases, by the multiplication of those who have an equivalent to give, therefore I fay that multiplication is the caufe, and agriculture the effect. On the other hand, I think the spontaneous fruits of the earth, as in the supposition, may be considered as the cause of a certain limited multiplication; because in that case there is no equivalent demanded. The earth produces, whether her fruits be confumed or not: mankind are fed upon these gratuitously, and without labour, and the existence of the fruits is anterior to the production of those who are to consume them. Those who are first fed, draw their vigour from their food, and their multiplication from their vigour. Those who are produced, live freely upon their parent earth, and multiply until all the produce be confumed: then multiplication flops, as we have faid; but establish agriculture, and multiplication will go on a new. Confequently,

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Confequently, my reader will fay, agriculture is as much the cause of this new multiplication, as the spontaneous fruits were of the first. Here is a very natural conclusion, which seems directly to contradict what we have been endeavouring to prove; but the knot is casily untied. We have seen how the existence of agriculture must depend upon the industry of man; that is, on the only means of establishing agriculture: now, as this industry is chiefly promoted by the motive of providing for our children, the procreation of them must be considered as the first, or at least the most palpable political cause of setting mankind to work, and therefore may be confidered as anterior to agriculture; whereas, on the other hand, the earth's productions being in small quantity, and quite independent of man, appear, as it were, to be furnished by nature, in the fame way as a fmall fum is given to a young manin order to put him in a way of industry, and of making his fortune. The small sum sets him a-going, but it is his industry which makes the fortune. From this illustration it appears, that if the demand for food can be more readily fupplied from abroad than from home, it will be the foreign fubfiftence, which will preferve numbers, produced from industry, not from domestic agriculture; and these numbers will, in their turn, produce an advancement of it at home, by infpiring a defire in the hufbandman to acquire the equivalent which their countrymen give to ffrangers.

Such nations, whose flatesmen have not the talent to engage the husbandmen to wish for the equivalent, which the labour of their fellow-citizens can produce; or, in other words, who cannot create reciprocal wants and dependencies among their fubjects, must fland in a moral incapacity of augmenting in numbers. Of fuch flates we have no occasion to treat in this chapter, any more than of those who are supposed to be in the physical incapacity of multiplying: our point of view is, to examine the natural confequences refulting from a demand for fublishence extending itself to foreign countries. This I take to be the mother of industry at home, as well as of trade abroad; two objects which come to be treated of in the fecond book.

A country may be fully peopled (in the fense we understand this term) in feveral different ways. It may be fully flocked at one time with fix millions, and at another may maintain perhaps eightor even nine millions with ease, without the foil's being better cultivated or improved. On the other hand, a country may maintain twenty millions with eafe, and by being improved as to the foil, become overflocked with fifteen millions. These two affertions must be explained:

The more frugal a people are, and the more they feed upon the plentiful productions of the earth, the more they may increase

in numbers.

Were the people of England to come more into the use of living upon bread, and give over confuming fo much animal food, inhabitants would certainly increase, and many rich grass fields would be thrown into tillage. Were the French to give over eating fo much bread, the Dutch fo much fish, the Flemish fo much garden fluff, and the Germans fo much fourkraut, and all take to the English diet of pork, beef, and mutton, their respective numbers would foon decay, let them improve their grounds to the utmost. These are but reflections, by the by, which the reader may enlarge upon at pleasure. The point in hand is, to know what are the consequences of a country's being fo peopled, no matter from what cause, that the foil, in its actual state of fertility, refuses to supply a fufficient quantity of fuch food as the inhabitants incline to live upon. These are different according to the diversity of spirit in the people.

If they be of an indolent disposition, directed in their political oeconomy by established habits and old prejudices, which prevent innovations, although a change of circumftances may demand them, the effect will be to put a flop to population; which cannot augment without an increase of food on one hand, and of industry on the other, to make the first circulate. These must go hand in hand: the precedence between them is a matter of mere-

curiofity and speculation.

If, on the contrary, a fpirit of industry has brought the country to a certain degree of population, this spirit will not be stopt by the want of food; it will be brought from foreign countries, and this new demand, by diminishing among them the quantity usually produced for their own subsistence, will prompt the industrious to improve their lands, in order to supply the new demand without any hurt to themselves. Thus trade has an evident tendency towards the improvement of the world in general, by rendering the inhabitants of one country industrious, in order to supply the wants of another, without any prejudice to themselves. Let us make a step further.

The country fully flocked can offer in exchange for this food, nothing but the fuperfluity of the industry of the free hands, for that of the farmers is supposed to be consumed by the society; except indeed some species of nourishment or productions, which, being esteemed at a higher value in other countries than in those which produce them, bring a more considerable return than the value of what is exported, as when raw filk and delicate wines, &c. are given in exchange for grain and other provisions.

The fuperfluity of industry must, therefore, form the principal part of exportation, and if the nation fully stocked be surrounded by others which abound in grain and articles of subsistence, where the inhabitants have a taste for elegance, and are eager of acquiring the manusactures and improvements of their industrious neighbours; it is certain, that a trade with such nations will very considerably increase the inhabitants of the other, though fully stocked, relatively to the production of their own soil; and the additional numbers will only increase that of manusacturers, not of husbandmen. This is the case with Holland, and with many large trading cities which are free and have but a small territory.

If, on the contrary, the nation fully flocked be in the neighbourhood of others who take the fame fpirit as itfelf, this supply of food will become in time more difficult to be had, in proportion as their neighbours come to supply their own wants. They must therefore

therefore feek for it at a greater distance, and as soon as the expense of procuring it comes to exceed the value of the labour of the free hands employed in producing the equivalent, their work will cease to be exported, and the number of inhabitants will be diminished to the proportion of the remaining food.

I do not fay that trade will cease on this account; by no means. Trade may fill go on, and even be more considerable than before; but it will be a trade which never can increase inhabitants, because for this purpose there must be subsistence. It may have however numberless and great advantages: it may greatly advance the wealth of the state, and this will purchase even power and strength. A trading nation may live in profound peace at home, and send war and confusion among her enemies, without even employing her own subjects. Thus trade without increasing the inhabitants of a country can greatly add to its force, by arming those hands which she has not fed, and employing them for her service.

CHAP. XIX.

Is the Introduction of Machines into Manufactures prejudicial to the Interest of a State, or hurtful to Population?

HIS I find has been made a question in modern times. The antients held in great veneration the inventors of the faw, of the lathe, of the wimble, of the potters wheel; but some moderns find an abuse in bringing mechanism to perfection: (see Les Interets de la France mal' entendus, p. 272. 313.) the great Montesquieu finds fault with water mills, though I do not find that he has made any objection against the use of the plow.

Did people understand one another, it would be impossible that such points could suffer a dispute among men of sense; but the circumstances

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cumflances referred to, or prefupposed, which authors almost always keep in their eye, though they feldom express them, render the most evident truths susceptible of opposition.

It is hardly possible suddenly to introduce the smallest innovation into the political occonomy of a state, let it be ever so reasonable, nay ever so prositable, without incurring some inconveniencies. A room cannot be swept without raising dust, one cannot walk abroad without dirtying one's shoes; neither can a machine, which abridges the labour of men, be introduced all at once into an extensive manufacture, without throwing many people into idleness.

In treating every question of political oeconomy, I constantly suppose a statesman at the head of government, systematically conducting every part of it, so as to prevent the viciflitudes of manners, and innovations, from hurting any interest within the commonwealth, by their natural and immediate effects or confequences. When a house within a city becomes crazy, it is taken down; this I call fystematical ruin: were it allowed to fall, the consequences might be fatal in many respects. In like manner, if a number of machines are all at once introduced into the manufactures of an industrious nation, (in consequence of that freedom which must necessarily be indulged to all forts of improvement, and without which a state cannot thrive) it becomes the business of the statesman to interest himself to far in the consequences, as to provide a remedy for the inconveniencies refulting from the fudden alteration. It is farther his duty to make every exercise even of liberty and refinement an object of government and administration; not so as to difcourage or to check them, but to prevent the revolution from affeeting the interests of the different classes of the people, whose welfare he is particularly bound to take care of.

The introduction of machines can, I think, in no other way prove hurtful by making people idle, than by the fuddenness of it: and I have frequently observed, that all sudden revolutions, let them be ever so advantageous, must be accompanied with inconveniencies. A safe, honourable, and lasting peace, after a long, dangerous, and expensive war, forces a number of hands to be idle, and deprives them

them of bread. Peace then may be confidered as a machine for defending a nation, at the political loss of making an army idle; yet no body, I believe, will alledge that in order to give bread to foldiers, futlers, and undertakers, the war should be continued. But here I must observe, that it feems to be a palpable defect in policy. if a flatefman fhall neglect to find out a proper expedient (at whatever first expence it may be procured) for giving bread to those who. at the rifk of their lives, have gone through fo many fatigues for the fervice of their country. This expence should be charged to the account of the war, and a flate ought to confider, that as their fafety required that numbers should be taken out of the way of fecuring to themselves a lasting fund of subsistence, which would have rendered them independent of every body, (supposing that to have been the case) she becomes bound by the contract of society, which ties all together, to find them employment. Let me feek for another illustration concerning this matter.

I want to make a rampart cross a river, in order to establish a bridge, a mill, a sluice, &c. For this purpose, I must turn off the water, that is, stop the river; would it be a good objection against my improvement to say, that the water would overslow the neighbouring lands, as if I could be supposed to improvident as not to have prepared a new channel for it? Machines stop the river; it is the business of the state to make the new channel, as it is the public which is to reap the benefit of the sluice: I imagine what I have said will naturally suggest an answer to all possible objections against the introduction of machines; as for the advantages of them, they are so palpable that I need not insist upon them. There is however one case in which I think they may be disapproved of; but it seems a chimerical supposition, and is brought in here for no other purpose than to point out and illustrate the principle which influences this branch of our subject.

If you can imagine a country peopled to the utmost extent of the fertility of the soil, and absolutely cut off from any communication with other nations; all the inhabitants fully employed in VOL. I.

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fupplying the wants of one another, the circulation of money going forward regularly, proportionally, and uniformly through every vein, as I may call it, of the political body; no fudden or extraordinary demand at any time for any branch of industry; no redundancy of any employment; no possibility of increasing either circulation, industry, or consumption. In such a situation as that I should disapprove of the introduction of machines, as I disapprove of taking physic in an established state of perfect health. I disapprove of a machine only because it is an innovation in a state absolutely perfect in these branches of its political oeconomy; and where there is perfection there can be no improvement. I farther disapprove of it because it might force a man to be idle, who would be found thereby in a physical impossibility of getting his bread, in any other way than that in which he is supposed to be actually employed.

The prefent fituation of every country in Europe, is fo infinitely diffant from this degree of perfection, that I must consider the introduction of machines, and of every method of augmenting the produce or facilitating the labour and ingenuity of man, as of the greatest utility. Why do people wish to augment population, but in order to compass these ends? Wherein does the effect of a machine differ from that of new inhabitants?

As agriculture, exercifed as a trade, purges the land of idle mouths, and pushes them to a new industry which the state may turn to her own advantage; so does a machine introduced into a manufacture, purge off hands which then become superstuous in that branch, and which may quickly be employed in another.

If therefore the machine proves hurtful, it can only be because it presents the state with an additional number of hands bred to labour; consequently, if these are afterwards found without bread, it must proceed from a want of attention in the statesman: for an industrious man made idle, may constantly be employed to advantage, and with profit to him who employs him. What could an act of naturalization do more, than furnish industrious hands forced

to be idle, and demanding employment? Machines therefore I confider as a method of augmenting (virtually) the number of the industrious, without the expence of feeding an additional number: this by no means obstructs natural and useful population, for the most obvious reasons.

We have shewn how population must go on, in proportion to subsistence, and in proportion to industry: now the machine eats nothing, so does not diminish subsistence, and industry (in our age at least) is in no danger of being overstocked in any well governed state; for let all the world copy your improvements, they still will be the scholars. And if, on the contrary, in the introduction of machines you are found to be the scholars of other nations, in that case you are brought to the dilemma of accepting the invention with all its inconveniencies, or of renouncing every foreign communication.

In speculations of this kind, one ought not, I think, to conclude, that experience must of necessity prove what we imagine our reasoning has pointed out.

The confequences of innovations in political oeconomy, admit of an infinite variety, because of the infinite variety of circumstances which attend them: no reasoning, therefore, however refined, can point out a priori, what upon such occasions must indispensably follow. The experiment must be made, circumstances must be allowed to operate; inconveniencies must be prevented or rectified as far as possible; and when these prove too many, or too great to be removed, the most rational, the best concerted scheme in theory must be laid aside, until preparatory steps be taken for rendring it practicable.

Upon the whole, daily experience flews the advantage and improvement acquired by the introduction of machines. Let the inconveniencies complained of be ever fo fenfibly felt, let a flatefman be ever fo carelefs in relieving those who are forced to be idle, all these inconveniencies are only temporary; the advantage is perma-

CHAP. XX.

nent, and the necessity of introducing every method of abridging labour and expence, in order to supply the wants of luxurious mankind, is absolutely indispensable, according to modern policy, according to experience, and according to reason.

CHAP. XX.

Miscellaneous Observations upon Agriculture and Population.

HAVE hitherto confidered the object of agriculture, as no more than the raifing of grain; the food of mankind has been eftimated by the quantity they confume of that production; and hufbandmen have been fupposed to have their residence in the country. As my subject has but an indirect connection with the science of agriculture, I have simplified many things complex in themselves, the better to adapt them to the principal object of my inquiry, and the better to keep my attention fixed upon one idea at a time. I am now going to return to some parts of my subject, which I think I have treated too superficially; and to examine, as I go along, some miscellaneous questions which will naturally arise from what is to be faid.

Quest. I. Almost every one who has writ upon population, and upon agriculture, considered as an effential concomitant of it, has recommended the equal distribution of the property of lands as useful to both: a few reflections upon this question, after what has been thrown out in the course of the foregoing chapters, may not be improper; more in order to examine and apply the principles laid down, than with a view to combat the opinion of others.

I have already, upon feveral occasions, taken notice of the great difference between the political occonomy of the antients, and that of modern times; for this reason, among others, that I perceive the sentiments of the antients, which were founded upon reason and common sense, relative to their situation, have been adopted by some moderns, who have not perhaps sufficiently attended to the change of our manners, and to the effects which this change must operate upon every thing relative to our occonomy. The antients recommended strongly an equal distribution of lands as the best security for liberty, and the best method, not only to preserve an equality among the citizens, but also to increase their numbers.

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In those days, the citizens did not compose one half of the state-relatively to numbers; and there was almost no such thing as an established monied interest, which can no where be founded but upon trade, and an extensive industry. In those days there was no solid income but in land: and that being equally divided among the citizens, was favourable to their multiplication and produced equality. But in our days, riches do not consist in lands only; nay we sometimes find the most considerable proprietor of these in very indifferent circumstances; loaded with debts, and depending upon the indulgence of men who have not an acre, and who are their creditors. Let us therefore divide our lands as we please, we shall never produce equality by it. This is an essential difference between us and the antients, with respect to one point. Now as to the other, population.

The equal divifion of lands, no doubt, greatly tends to increase the numbers of one class of inhabitants, to wit, the landlords. In antient times, as has been observed; the chief attention was to increase the citizens, that is the higher classes of the state; and the equal division of property so effectually produced this effect, that the Greek states were obliged to allow the exposition of children; and Aristotle looked upon it as a thing indispensably necessary, as M. de Montesquieu has very judiciously observed. The multiplication of the lowest classes, that is of the slaves, never entered into the consideration of the public, but remained purely a matter of private.

Let this fuffice to point out how far the difference of our manners flould influence the division of our lands. I shall now examine a Quest. II question relative to the science of agriculture, not considered as a method of improving the soil, (this will come in more naturally afterwards) but of making it produce to the best advantage, supposing it to be already improved.

In treating of the productions of the earth, in confequence of agriculture, I have all along diflinguished them from those which spontaneously proceed from the force of nature: these are the immediate gift of God, those are the return of the labour of his creatures. Every one knows that the labour of mankind is not in proportion

portion to their numbers, but to their industry. The produce therefore of agriculture must be estimated, not according to the quantity of fruits only, but also according to the labour employed to produce them. These things premised, the question here proposed to be examined arises, viz. Which species of agriculture is the most advantageous to a modern society, that which produces the greatest quantity of fruits absolutely taken, or that which produces the greatest quantity relatively taken, I mean to the labour employed?

This question might easily be resolved, in general, by the application of principles already deduced; although it cannot admit of a direct answer, in the manner I have put it. One, therefore, may say indeterminately, that species is the best which produces a furplus the best proportioned to the industry, and to the demands of all the free hands of the state. But as this solution would not lead me to the object I have in view, I have thrown in an alternative in order to gain attention to the principles which I am going to examine, and which influence and determine the establishment of the one or the other species of agriculture.

The principal difficulty I find in the examination of this question, is to distinguish the effects of agriculture from those of the spontaneous production of the earth. The returns from pasture, for example, relatively taken, are, as we have observed, both from reason and from experience, far greater than those of corn fields, (vid. supra, chap. 8.) though I little doubt but that, absolutely taken, the case is quite otherwise; that is to say, that an acre of the finest corn land will produce more nourishment for man, than an equal portion of the finest pasture: but here we are following the proportion of space and produce, not of labour; for if the produce of both acres be considered relatively to the labour necessary for the cultivation, as well as to the extent; the produce of pasture will be found far greater: this however I ascribe to the spontaneous operation of nature, and not to the superior utility of this kind of agriculture.

Since therefore it is impossible, rightly to separate the effects of nature from those of art and industry, in this species of improvement, let us confine our speculations to those only which have for their object the turning up the surface, and the sowing or cultivating annual vegetables. For the better conveying our ideas, let us take an example, and reason from a supposition.

Let me fuppose an island of a small extent and fruitful soil, sufficiently improved, and cultivated after the manner of the best lands of England, in the ordinary method of farming.

In that case we may infer, from what was laid down in the 8th chapter, that the number of people employed about farming may be nearly about one half of the whole society. Let the whole inhabitants of the island be called 1000, that is 500 farmers, and as many free hands. The 500 farmers must then feed 1000; the 500 free hands must provide for all the other wants of 1000. By this supposition, and allowing that there is an equal degree of industry in these two classes, the providing of food will appear to be an occupation just equal to that of providing for all other wants. From this let me draw a few consequences, by the by, before I proceed.

Experience shews that in all countries there are found many who are here understood to be included in the class of free hands, who confumed infinitely more of other things than of food; confequently we must conclude, that as the wants of some do far exceed the proportion of their food, so in order to bring the balance even, the wants of others must fall far below it.) That this is the case, I believe, will be found by experience. Let me follow this thought a little farther.

In proportion as a greater number than one half of the people becomes employed in agriculture, must it not follow, that all other work must come to bear a smaller proportion than formerly to the food confumed; consequently the manner of living must become more simple. Now we have shewn that what we call wants, (in contradistinction to) food, can only be supplied by the free hands, and that these again can only be fed from the surplus of the farmers; consequently

confequently the fewer wants, and the fewer free hands, the lefs furplus, which of course infers an agriculture less productive, relatively to the number of farmers. Were, therefore, a whole fociety employed in agriculture, carried on as a direct method of fubfilling, there would be no furplus, confequently no free hands; confequently no work for fupplying any want but food. This may be thought an impossible supposition. If you suppose agriculture exercifed as 2 trade, I allow it to be fo, but not if it be carried on as a method of fublifling only; and if you throw away the idea of labour altogether, and suppose mankind in its infancy, that is in paradife, living upon the spontaneous fruits of the earth, and quite naked, you will find the case not only supposable, but exactly so, It is exactly fo among the cattle: every one of them may be confidered in a parallel fituation with a husbandman who works for his own nourishment. They feed upon the spontaneous fruits of the earth, and have no furplus; and having no other want, they are freed from every other care. Let me return now to the island.

The 500 farmers feed 1000; and we suppose the lands laboured as in a good English farm. One of the society proposes to augment the number of inhabitants by introducing a more operose species of agriculture, the produce of which may be absolutely greater, though relatively less.

The first question the statesman would naturally put to this reformer would be, What is your view in increasing the number of our inhabitants, is it to defend us against our enemies, is it to supply the wants of strangers, and thereby to enrich ourselves, is it to supply our own wants with more abundance, or is it to provide us more abundantly with food? I can hardly find out any other rational view in wishing for an additional number of people in any country whatsoever. Let it be answered, that all these ends may be thereby obtained: and now let us examine how far this reformation upon agriculture will have the effect of increasing inhabitants, how far such increase will procure the ends proposed, and how far the executions.

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cution

If the inhabitants be not fufficiently fed, which is the only thing that can prevent their multiplication, it must proceed from one of two causes. Either first, that those do procreate who cannot produce an equivalent for the food of their children; or fecondly, that industry making a quicker progress than agriculture, the industrious come too flrongly in competition with one another, for the furplus of food to be found; which has the effect of raifing the prices of it, and reducing the portions too low to fuffer a division; and thereby of preventing marriage and multiplication in the lower classes of the free hands.

In the first case, it is to no purpose to increase the produce of agriculture, by rendering it more expensive; for those who have no equivalent to give when food is cheap, will flill be in greater necessity when it rises in the price. In the second case, it is to no purpose to diminish the furplus of the farmers, because the supposition proves that the balance is already too heavy upon the fide of the free hands, that is, that the furplus of the farmers is already become infufficient fully to feed them.

Two remedies may be proposed for this inconveniency, the one tending to population, the other to depopulation; and as the end to be compassed is to set the balance even between husbandmen and free hands, I shall explain both, and point out how far from principles it appears, that in either way the end may be attained.

That tending to increase population is the remedy proposed, and, no doubt, was it possible to introduce a new system of agriculture of a larger absolute production, although the relative production should be less, the inhabitants of the state becoming thereby better fed, though at a greater coft, would infallibly multiply. Let me therefore examine this first part before I say any thing of the other; and for the greater distinctness I shall return to my example, and examine both the confequences and the poffibility of putting fuch a plan in execution. Let

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Let me suppose, that by using the spade and rake, instead of the plow and harrow, the lands of our ifland might be brought to produce with more abundance; this is a method of increasing the expence of agriculture, which would require an additional number of husbandmen.

Now, by the supposition, 500 farmers fed, though scantily, the whole of the inhabitants, that is 1000 persons. If therefore 100 of the free hands can be engaged to become farmers, the end may be attained: more nourishment will be produced; the people will be better fed; they will multiply; that is, their number will rife above 1000. Let us next endeavour to form a judgment of this increase, and of the consequence of the revolution.

The fociety will now be composed of 600 farmers and 400 free hands. The 600 will certainly produce more fruits than formerly; but as their labour is relatively less productive by the supposition, it will be impossible for them to furnish surplus equal to their own confumption; confequently, the free hands never will be able to rife to a number equal to theirs; that is, the fociety will never get up to 1200. But we supposed, that the other wants of the society required the industry of one half of the inhabitants to supply them; that is, of all the 500 free hands; and, as the number of these has been already reduced, and can never more rife to that proportion, as has been faid, must not either the people voluntarily adopt a more fimple way of living; or must not the demand for work rife very confiderably? Let me confider the confequences in both cases. In the first, you perceive, that if the inhabitants themselves are obliged to simplify their way of living, for want of hands to supply what they formerly confumed, three of the four objects propofed by the reformation become impossible to be attained; to wit, the defending themselves against their enemies, the supplying the wants of ftrangers, and the fupplying their own with more abundance. And with regard to the fourth, the being better fed, that must cease to be the case, the moment the end is obtained; that is, the moment the inhabitants are multiplied up to the proportion of additional food. Confequently, by fimplifying their way of life, and allowing farming to fland upon the new footing, they compals not any one of the ends they proposed.

Next, if we suppose, that the inhabitants do not incline to simplify their way of life, but that the wealthy among them insist upon purchasing all the instruments of luxury which they formerly were used to enjoy, must not demand for work greatly rise, and must not, of consequence, an additional encouragement be given to that species of labour which had been diminished, in taking 100 persons from industry, to throw them into the class of farmers? Will not this make them quickly desert their spade, and the rather, as they have taken to an employment less lucrative than that of farming, according to the former systems?

So much for the consequences which would follow, in case the plan proposed was found practicable; that is, supposing it to be a thing possible to transport into agriculture a part of an industrious society, already otherwise employed, and to change all at once the relative proportion between those who supply food, and those who purchase it with their industry. We have begun, by taking that first step for granted; and now I am to shew what obstacles will be found in the execution.

We have faid, that it is the multiplicity and complexity of wants which give an encouragement to agriculture, and not agriculture, or an abundance of food, which infpires mankind with a difposition to labour. Now, if this principle be true, the supposition we have proceeded upon is absurd. I am afraid, both reason and experience will abundantly prove that it is so.

The natural and necessary effect of industry, in trades and manufactures, is to promote the increase of relative husbandry; which, by augmenting the furplus, tends of course to increase the proportion of the free hands relatively to the farmers. A river may as easily ascend to its source, as a people voluntarily adopt a more operose agriculture than that already established, supposing the lands to be fully improved, the spirit of industry to prevail on one hand, and the farmers to have profit only in view on the other.

What farmer could fell the furplus of an expensive agriculture in competition with another who exercised a species relatively more productive?

When lands are improved, the fimplification of agriculture is a necessary concomitant of industry, because diminishing expense is the only method of gaining a preference at market.

Whether industry has done hurt to population, by augmenting Quest. III. the relative, and diminishing the absolute produce of agriculture; or whether it has done good to it, by encouraging the science in general, and extending the exercise of it over the face of the earth, is a matter of fact which I shall leave to others, better informed than I am, to determine. For my own part, I believe that thoufands of examples may be found of the one and the other. I know corn fields, where villages formerly flood, the inhabitants of which fed themselves with the pure produce of absolute agricult ture; that is, with a bit of garden ground, and the milk of a cow: there furely is depopulation: but, at a fmall distance from the place where those villages stood, I see corn fields, where nothing but heath was to be met with; this marks population. I feek no more than to explain from facts the principles I am endeavouring to discover, and shall leave general conclusions to others, as I have already faid:

There is a maxim in law, which may be extended almost to every thing in this world, unum quodque eodem modo solvitur quo colligatum est. Industry forms this species of absolute agriculture; industry destroys it. A military force raised the Roman greatness; a military force destroyed it. A spirit of liberty may form a noble constitution, and a spirit of liberty may break the same to pieces. The States of Denmark restrained the royal power and established a free government; the same States rendered that very power unlimited, and established there the purest monarchy in Christendom. But these reslections are foreign to our subject: Ne sutor ultra crevidam. I return.

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When industry is set on foot, it gives encouragement to agriculture exercised as a trade: and by the allurements of ease, which a large surplus procures to the farmers, it does hurt to that species which is exercised as a method of subsistence. Lands become more generally and less thoroughly laboured. In some countries tillage is set on foot and encouraged; this is an operose agriculture. While industry goes forward, and while a people can remain fatissised with a nourishment consisting chiefly of bread, this system of agriculture will subsist, and will carry numbers very high. If wealth increases, and if those who have it begin to demand a much greater proportion of work than formerly, while they consume no more food, then I believe numbers may diminish from the principles I am now going in quest of.

I return to the council of the island where the proposition laid down upon the carpet is, The feanty subsistence of the inhabitants requires redress.

A Machiavelian stands up (of fuch there are some in every country) and proposes, in place of multiplying the inhabitants, by rendering agriculture more operofe, to diminish their number, by throwing a quantity of corn fields into grafs. What is the intention of agriculture, fays he, but to nourish a state? By our operose method of plowing and fowing, one half of the whole produce is confumed by those who raise it; whereas by having a great part of our island in pasture, one half of the husbandmen may be faved. Pray what do you propose to do with those whom you intend to make idle? replies a citizen. Let them betake themselves to industry. But industry is fufficiently, nay more than fufficiently stocked already. If, fays Machiavel, the fupernumerary husbandmen be thrown out of a way of living, they may go where they please; we have no occasion for them, nor for any one who lives only to feed himfelf. But you diminish the number of your people, replies the citizen, and confequently your flrength; and if afterwards you come to be attacked by your enemies, you will wish to have those back again for your defence, whom in your fecurity you despised. To this the other makes answer: there you trust to the Egyptian reed. If they be necessary for feeding us at present, how shall we be able to live while we employ them as foldiers? We may live without many things, but not without the labour of our husbandmen. Whether we have our grounds in tillage or in pasture, if that class be rightly proportioned to the labour required, we never can take any from it. In those countries where we see princes have recourse to the land to recruit their armies, we may fafely conclude. that there the land is overflocked; and that industry has not as yet been able to purge off all the fuperfluous mouths: but with us the case is different, where agriculture is justly proportioned to the number of husbandmen. If I propose a reform, it is only to augment the furplus, upon which all the flate, except the husbandmen, are fed; if the furplus after the reform is greater than at prefent, the plan is good, although 250 of our farmers should thereby be forced to starve for hunger.

Though no man is, I believe, capable to reason in so inhuman a style, and though the revolution here proposed be an impossible supposition, if meant to be executed all at once, the same effects however must be produced, in every country where we see corn fields by degrees turned into pasture; only the change is gradual, industry is not overslocked any where, and subsistence may be drawn from other countries, where the operose species of agriculture can be carried on with profit.

Familiar experience proves the truth of this. I have a corn farm, where I maintain ten horses and four servants for the cultivation alone: at the end of the year I find my surplus equal to 401. Sterling. If, by throwing my grounds into grass, I can dismiss three servants and eight horses, and at the end of the year raise my surplus to 501. Sterling, who doubts of my doing it? Is not this following the doctrine above laid down? But there is nothing odious in this; because I do not see these three servants die for hunger, nor is it a consequence they should, as states are formed. They turn themselves to industry, and food comes from abroad, in proportion as

the country itself produces a less quantity. Fact and experience prove this affertion, and I cite Holland as an example, where every branch of operofe agriculture is exploded, except for fuch productions as cannot be brought from other countries. I introduced the rough Machiavelian only to fet principles in a ftrong light, and particularly that concerning the recruiting of armies from the land, which I take to be both a true one, and one necessary to be attended to, to wit. that those who must labour for the subsistence of the society, can be of little use for the defence of a flate, in case of any emergency. Princes have found out the truth of this, and in proportion as industry has extended itself, regular armies have been found necesfary to be kept up in times of peace, in order to be had in times of war. A militia composed of people truly industrious, I take to be far better in speculation than in practice. How would a militia do in Holland? how admirable was it not formerly in Scotland, Poland, and Catalonia? And how admirably does it ftill fucceed in the armies of the house of Austria? I may however be mistaken; for a military and an industrious spirit may be found compatible with one another in fome particular nations: time perhaps will clear up this matter. Thus much with regard to a militia. Now as to recruiting a regular army.

The more they are recruited from the land, the less they desert. The army of the Russians, for example, now assembled (1758) hardly knows desertion, those of the house of Austria, taken from certain provinces where there is almost no industry, are in the same case, also the militia of France which I consider as regular troops. On the other hand, those armies which are raised in the countries where industry has taken root are chiefly composed of loose fellows, the excrements of populous cities, the sons of vice and idleness, who have neither domicil nor attachment. These are soldiers truly by trade, and make a trade of it; how many thousands of such are now to be found? they come to market every season, and the best bidder has them while he can hold them. Some princes make a point not to receive their own deserters back, but accept of those

who have committed the fame infidelity to others; while others content themselves with punishing those who fail in their attempt to defert, but receive them back when they return of their own accord, after having accomplished their desertion. All is now become commerce, and seems to be regulated by the principles of it. I return to our agriculture.

Does not the exposition we have now given of these principles tend to cast a light upon the first question dismissed in this chapter, to wit, the effects of an equal and an unequal distribution of the property of lands?

When these are once well cultivated and improved, it is of no consequence to whom the property belongs; for by the property of such lands I only can mean the surplus, as we have abundantly explained elsewhere. Let therefore the property of all the lands of a kingdom, fully improved, belong to the state, or to any number of individuals, however few, there is no question of improvement; no difference as to agricultute, no difference as to population, according to modern policy. So long as the whole is well cultivated and made to produce, by a set of men I call farmers, the end is fully obtained; and according to the nature of the agriculture, which many different circumstances of taste and manner of living has introduced, larger or smaller portions of land must be allotted to each of them.

If you suppose a country not as yet improved, as many are, then the case becomes quite different, and small possessions are necessary, both for multiplying the inhabitants and for improving the soil. In this supposition the most operose agriculture may be carried on in competition with the most lucrative; because when there is a question of improvement, there is frequently a considerable outgoing instead of any surplus after paying the labour.

Agriculture for improvement can be carried on by none but those who have wealth and superfluity, and is prosecuted with a view to future, not to present advantage: of this we shall treat in another place. For I consider it as a quite different operation, influenced by VOL. I.

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different principles, and no ways to be confounded with the prefent fubject of inquiry. But I have infenfibly been wandering through an extensive subject, and it is now time to return.

I have faid above that a river might as eafily aftend to its fource, as an industrious people voluntarily adopt a more operose fystem of agriculture than that already established, while the spirit of industry prevails on one hand, and while farmers have profit only in view on the other. In consequence of this position, I have treated the plan proposed for augmenting the inhabitants of the island, by the introduction of a more operose agriculture as absurd, and so it certainly is: but let me throw in a circumstance which affects the spirit of that people, and the plan becomes plausible and easy.

Let a part of the wealthy proprietors of the lands take a tafte for agriculture. Let a Tull, a Du Hamel turn agriculture into an object of luxury, of amusement. Let this science be turned into a Missifippi, or South Sea scheme. Let the rich be made to believe that treafures are to be found at a finall expence, laid at first out upon farming, and you will foon fee the most operofe species of the science go forward, and the produce of it come to market and be fold, in fpite of all competition. My Lady Duchefs's knotting may be fold at fo much a pound, as well as that performed by a girl who does not fpend fix pence a day; but if the one and the other be confidered relatively to the expence of the manufacturer, every knot of my Lady's will be found to have cost as much as a pound of the other. The Duchess's pound, however, increases the quantity of knots; and fo does my Lord's farm the mass of sublistence for the whole fociety. The nation also gains by his extravagance having taken a turn, which may produce the permanent good effect of improving a part of the country, though at an expence infinitely beyond the value of it. I must now again touch upon another part of my fubject, which I think has been treated too fuperficially.

In a former chapter I have shewn how industry has the natural effect of collecting into towns and cities the free hands of a state, leaving the farmers in their farms and villages. This distribution ferved

ferved the purpose of explaining certain principles; but when examined relatively to other circumstances which at that time I had not in my eye, it will be found by far too general. Let me therefore add some farther observations upon that matter.

The extensive agriculture of plowing and fowing, is the proper employment of the country, and is the foundation of population in every nation fed upon its own produce. Cities are commonly furrounded by kitchen gardens, and rich grafs fields; these are the proper objects of agriculture for those who live in suburbs, or who are flut up within the walls of finall towns. The gardens produce various kinds of nourishment, which cannot easily be brought from a distance, in that fresh and luxuriant state which pleases the eye, and conduces to health. They offer a continual occupation to man, and very little for cattle, therefore are properly fituated in the proximity of towns and cities. The grafs fields again are commonly either grazed by cows, for the production of milk, butter, cream, &c. which fuffer by long carriage; or kept in pasture for preferving fatted animals in good order until the markets demand them; or they are cut in grafs for the cattle of the city. They may also be turned into hay with profit; because the carriage of a bulky commodity from a great distance is sometimes too expensive. Thus we commonly find agriculture disposed in the following manner. In the center flands the city furrounded by kitchen gardens; beyond these lies a belt of fine luxuriant pasture or hay fields; stretch beyond this and you find the beginning of what I call operose farming, plowing and fowing; beyond this lie grazing farms for the fattening of cattle; and last of all come the mountainous and large extents of unimproved or ill improved grounds, where animals are bred. This feems the natural distribution, and such I have found it almost every where established, when particular circumflances do not invert the order.

The poorness of the soil near Paris, for example, presents you with fields of rye corn at the very gates, and with the most extensive kitchen gardens and orchards, even for cherries and peaches,

at a confiderable distance from town. Other cities I have found, and I can cite the example of that which I at present inhabit, Padoua, where no kitchen garden is to be found near it, but every fpot is covered with the richest grain; two thirds with wheat, and the remaining third with Indian corn. The reason of this is palpable. The town is of a vast extent, in proportion to the inhabitants; the gardens are all within the walls, and the dung of the city enables the foil to produce constantly. Hay is brought from a greater distance, because the expence of distributing the dung over a diffant field, would be greater than that of transporting the hay by water-carriage. The farm houses here appear no larger than huts, as they really are, built by the farmers, because the fpace to be laboured is very fmall, in proportion to the produce; hence it is, that a farmer here pays the value of the full half of the crop to the landlord, and out of the remaining half, not only fows the ground and buys the dung, but furnishes the cattle and labouring instruments, nay even rebuilds his house, when occasion requires.

When first I examined these fertile plains, I began to lament the prodigal consumption of such valuable lands, in a multitude of very broad high-ways, issuing to all quarters; many of which I thought might be saved, in consideration of the vast advantage accruing upon such oeconomy: but upon farther reflection I perceived, that the loss was inconsiderable; for the fertility of the soil proceeding chiefly from the manure laid upon it, the loss sustained from the roads ought to be computed at no more than the value of the land when uncultivated. The case would be very different, were roads now to be changed, or new ones carried through the corn fields; the loss then would be considerable, though even that would be temporary, and only affect particular persons: for the same dung, which now supports these lands in their fertility, would quickly fertilize others in their place, and in a few years matters would stand as at present.

These last reflections lead me naturally to examine a question which has been treated by a very polite French writer, the author of *l'Ami de l'homme*, and which comes in here naturally enough, before I put an end to this first book. Here it is.

Does an unneceffary confumption of the earth's productions, Quest. IV. either in food, cloathing, or other wants; and a prodigal employment of fine rich fields, in gardens, avenues, great roads, and other uses which give small returns, burt population, by rendering food and necessaries less abundant, in a kingdom such as France, in its present situation?

My answer is, That if France were fully cultivated and peopled, the introduction of superfluous consumption would be an abuse, and would diminish the number of inhabitants; as the contrary is the case, it proves an advantage. I shall now give my reasons for differing in opinion from the gentleman whose performance I have cited.

As the question is put, you perceive the end to be compassed is, to render food and necessaries abundant; because the abuse is confidered in no other light, than relatively to the particular effect of diminishing the proper quantity of sublistence, which the king would incline to preferve, for the nourishment and uses of his people. I shall therefore confine myself chiefly to this object, and if I shew, that these superfluous employments of the surface of the earth, and prodigal confumptions of her fruits, are really no harm, but an encouragement to the improvement of the lands of France in her present state, I shall consider the question as sufficiently refolved: because if the abuse, as it is called, proves favourable to agriculture, it can never prove hurtful to population. However, from the inattention of the government, it may affect foreign trade, but this is an object entirely foreign to the question. But before I enter upon the fubject, it is proper to observe, that I am of opinion, that any fystem of occonomy which necessarily tends to corrupt the manners of a people, ought by every possible means to

CHAP. XX.

be difcouraged, although no particular prejudice flould refult from it, either to population, or to plentiful fubliftence.

Now, in the question before us, the only abuse I can find in these habits of extraordinary confumption, appears relative to the character of the confumers, and seems in no way to proceed from the effects of the confumption. The vices of men may no doubt prove the cause of their making a superstuous confumption, but the confumption they make can hardly ever be the cause of this vice. The most virtuous man in France may have the most splendid table, the richest clothes, the most magnificent equipages, the greatest number of useless horses, the most pompous palace, and most extensive gardens. The most enormous luxury to be conceived, in our acceptation of the term, so long as it is directed to no other object than the consumption of the labour and ingenuity of man, is compatible with virtue as well as with vice. This being premised, I come to the point in hand.

France, at prefent, is in her infancy as to improvement, although the advances she has made within a century excite the admiration of the world. I shall not go far in search of the proof of this affertion. Great tracts of her lands are still uncultivated, millions of her inhabitants are idle. When all comes to be cultivated, and all are employed, then she will be in a state of perfection, relatively to the moral possibility of being improved. The people are free, slavery is unknown, and every man is charged with feeding himfelf, and bringing up his children. The ports of the country are open to receive subsistence, and that nation, as much as any other, may be considered as an individual in the great society of the world; that is, may increase in power, wealth, and case, relatively to others, in proportion to the industry of her inhabitants. This being the case, all the principles of political occonomy, which we have been inquiring after, may freely operate in this kingdom.

France has arrived at her prefent pitch of luxury, relatively to confumption, by flow degrees. As the has grown in wealth, her defire of employing it has grown also. In proportion as her demands

mands have increased, more hands have been employed to supply them; for no article of expence can be increased, without increasing the work of those who supply it. If the same number of inhabitants in the city of Paris consume four times as much of any necessary article as formerly, I hope it will be allowed, that the production of such necessaries must be four times as abundant, and consequently, that many more people must be employed in providing them.

What is it that encourages agriculture, but a great demand for its productions? What encourages multiplication, but a great demand for people; that is, for their work? Would any one complain of the extravagant people in Paris, if, inflead of confuming those vast superfluities, they were to fend them over to Dover, for a return in English gold? What is the difference between the prodigal confumption, and the sale? The one brings in money, the other brings in none: but as to food and necessaries, for providing the poor and frugal, their contingent, in either case, stands exactly the same.

But, fays one, were it not for this extraordinary confumption, every thing would be cheaper. This I readily allow; but will any body fay, that reducing the price of the earth's productions is a method to encourage agriculture, especially in a country where grounds are not improved, and where they cannot be improved; chiefly, because the expence surpasses all the profits which possibly can be drawn from the returns? High prices therefore, the effect of great confumption, are certainly advantageous to the extension of agriculture. If I throw my rich corn fields into gravel-walks and gardens, I fuppose they will no more come into competition with those of my neighbour, the laborious husbandman. Who will then lofe by my extravagance? Not the husbandman. It will perhaps be faid, the nation in general will lofe; because you deprive them of their food. This might be true, were the laying waste the corn fields a fudden revolution, and extensive enough to affect the whole fociety; and were the fea-ports and barriers of the kingdom OBJ. But if living is made dear, manufacturers must starve, for want of employment.

Answ. Not those who supply home consumption, but only those who supply foreigners living more cheaply; and of such I know but few. The interest of this class shall be fully examined in another place. At present I shall only observe, that the laying waste corn fields in an industrious country, where refinement has set on foot a plan of useful husbandry, will have no other effect, than that of rendring grain for a while proportionally dearer: consequently, agriculture will be thereby encouraged; and in a few years the loss will be repaired, by a farther extension of improvement. This will make food plentiful and cheap: then numbers will increase, until it become scarce again. It is by such alternate vicissitudes, that improvement and population are carried to their height. While the improvement of lands goes forward, I must conclude, that demand for subsistence is increasing; and if this be not a proof of population, I am much mistaken.

I can very eafily fuppose, that a demand for work may increase considerably, in consequence of an augmentation of riches only; because there is no bounds to the consumption of work; but as for articles of nourishment the case is quite different. The most delicate liver in Paris will not put more of the earth's productions into his belly, than another: he may pick and choose, but he will always find, that what he leaves will go to feed another: victuals are not thrown away in any country I have ever been in. It is not in the most expensive kitchens where there is found the most prodigal diffipation of the abundant fruits of the earth; and it is with such that a people is fed, not with ortolans, trussles, and oysters, sent from Marenne.

OBJ. Roads of a fuperfluous breadth are carried many times through the finest fields, belonging to the poor and industrious, without a proper indemnity being given.

Answ. The with-holding the indemnity is an abuse; the loss of the fields is none to the flate, except in fuch countries where the quantity of arable lands is fmall, as in mountainous provinces: there a proper confideration should be had to the breadth, because the lofs cannot be made up. In fuch countries as I here describe. and I cite the trial for an example, I have found all the inhabitants in a manner employed in that species of agriculture, which is exercifed as a method of fublifting. The little ground that is arable, is divided into very fmall lots; the people multiply very much, and leave the country. Those who remain are usually employed in cutting wood, for building and burning, which they fend down the rivers, and in return buy corn, which comes from the fouth and from the north. This is the best plan of industry they can follow, without the affiftance of their fovereign. Roads here are executed to great perfection, with abundance of folidity. and with a tender regard for the little ground there is. I return to France.

OBJ. A multitude of fuperfluous horses are kept in Paris, which confume what would feed many more inhabitants.

Answ. True: but he who feeds the horfes, because he thinks he has use for them, would not feed those inhabitants, because he is fure he has no use for them: and did he, in complaisance for the public, difinis his cattle, the farmer, who furnishes the hay and oats, would lose a customer, and nobody would gain. These articles are produced, because they are demanded: when additional inhabitants are produced, who will demand and can pay, their demand will be answered also, as long as there is an unemployed acre in France.

OBJ. The increase of the confumption of wood for firing 13 hurtful to population, because it marks the extension of forests.

Answ. This confequence I deny; both from fact and reason, From fact, because forests are not extended, and that nothing but. the hand of nature, in an ill-inhabited country, feems capable of forming them. In France, forests are diminishing daily; and were it not for the jurisdiction of the Table de marbre, they would have been more diminished than they are. I agree, that the confumption of wood is at prefent infinitely greater than formerly, and likewise, that the price of it is greatly risen every where. These two circumflances rather feem to mark the contraction, than the extension of forests. But the increase of consumption and price proceed from other causes, as I shall shew, in order to point out fome new principles relative to this extensive subject. 1. The increase of consumption proceeds from the increase of wealth. 2. The increase of price proceeds from the increase upon the value of labour, and not from the fearcity of forest, nor the height. of the demand for firing. As to the first, I believe the fact will not be called in question, as it is one of the superfluities of confumption complained of, and put down to the account of luxury and extravagance. As to the fecond, the true cause of the rise of the price of that commodity demands a little more attention, and in order to point it out with some distinctness, I must first shew the political impossibility of forests becoming extended over the arable lands of France in her prefent fituation.

The best proof I can offer to support my opinion is, to compare the inconsiderable value of an acre of standing forest in the king's adjudications, where thousands are sold at a time, with the value of an acre of tolerable corn lands, and then ask, if the present value of forests is so considerable, as to engage any proprietor to sow such a field for raising wood, when he must wait, perhaps 40 years, before it be fit for cutting? Add to this, that whoever plants a tree in France, comes under the jurisdiction above-mentioned, and is not at liberty to cut it down, and dispose of it, without their permission. It is in a great measure for this reason, that so few trees are seen about French villages; and I never heard of one example,

example, of corn lands being fown with the feeds of forest-trees, with a view to improvement. That forests, which are well kept, may extend themselves over grounds not worth the cultivation, I do not deny; but this furely can do no harm to agriculture; and it is only in that respect, I pretend that forests in France are not at present in a way of gaining ground.

Now as to the rife in the price of wood for burning, I fay, it proceeds not from the rife of the price of timber growing in forests, so much as from the increase of the price of labour, and principally of the price of transportation. This is not peculiar to France alone, but is common to all Europe almost, for the reasons I shall presently give. But in the first place, as to the matter of fact, that the rife in the price proceeds from the cause afsigned, may be seen, by comparing the low price of an acre of standing forest, with the great value of the timber when brought to market: the first is the neat value of the wood; the last includes that of the labour.

Next as to the price of labour; the rife here is universal in all industrious nations, from a very plain reason, easily deducible from the principles above laid down.

While the land remained loaded with a number of fuperfluous mouths, while numbers were found in every province employed in agriculture, for the fake of fubfiftence, merely, fuch people were always ready to employ their idle hours and days, for a very small consideration from those who employed them. They did not then depend upon this employment for their subfishence; and a penny in their pocket purchased some superfluity for them. But when modern policy has by degrees drawn numbers from the country, the few that remain for the service of the public must now labour for its subsistence; and he who employs them, must feed them, clothe them, and provide for all their other wants. No wonder then, if labour be dearer: there is a palpable reason for the augmentation.

The price of all necessaries has rifen, no doubt, partly for the fame reason, and this circumstance certainly enters into the com-

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bination: but work, in the country especially, has risen far beyond the proportion of the price of necessaries, and will rise still more as the lands become better purged of fuperfluous mouths.

Notwithstanding what I have faid, I readily allow, that the great confumption of wood for burning, but more particularly for forges, has confiderably raifed the intrinsic value of forest lands; but the consequence has not been, to extend the forests, as we have shewn, but to produce a general revenue from them all over the kingdom; whereas formerly, in many provinces, they produced almost nothing. When they were cut, cattle were turned in, and by eating up the tender shoots from year to year, the forest ran into a wild, neither producing timber, nor pasture. This practice was established upon the ruling principle of private interest. The land was not worth the expence of grubbing up the timber; the timber when grown, did not compensate the loss of a few years. pasture. No jurisdiction, however well administred, can check the operation of that principle; and a statesman who would attempt it, would be called a tyrant: he would diffress the husbandman, and do no fervice to the state.

From what has been faid, I must conclude, that while the confumption of the earth's produce, and of the work of man tend toexcite industry, in providing for extraordinary demands; when the interest of foreign trade does not enter into the question; and while there are lands enough remaining unimproved, to furnish the first matter; there can be no political abuse from the misapplication or unnecessary destruction of either fruits or labour. The misapplier, or diffipator, is punished by the loss of his money; the industrious man is rewarded by the acquisition of it. We have faid, that vice is not more effentially connected with fuperfluity, than virtue with industry and frugality. But such questions are foreign to my fubject. I would however recommend it to moralifts, to fludy circumflances well, before they carry reformation fo far, as to interrupt an established fystem in the political occonomy of their country.

CHAP. XXI.

OF POLITICAL OECONOMY.

Recapitulation of the First Book.

SET out by diftinguishing government from political oeconomy; INTROD. calling the first the power to command, the second the talent to execute. Thus the governor may reflrain, but the fleward must lead, and, by direct motives of felf-interest, gently conduct free and independent men to concur in certain schemes ultimately cal-

culated for their own proper benefit. The object is, to provide food, other necessaries and employment, not only for those who actually exist, but also for those who are to be brought into existence. This is accomplished, by engaging every one of the fociety to contribute to the fervice of others, in proportion only as he is to reap a benefit from reciprocal fervices. To render this practicable, the fpirit of the people must be studied, the different occupations prescribed to each must first be adapted to their inclinations, and when once they have taken a tafte for labour, these inclinations must be worked upon by degrees, so as to be bent towards fuch purfuits as are most proper for attaining the

end defired. He who fits at the head of this operation, is called the flatef- CHAP. ?. man. I fuppose him to be constantly awake, attentive to his employment, able and uncorrupted, tender in his love for the fociety he governs, impartially just in his indulgence for every class of inhabitants, and difregardful of the interest of individuals, when that regard is inconfistent with the general welfare.

Did I propose a plan of execution, I confess this supposition would be abfurd; but as I mean nothing farther than the inveftigation of principles, it is no more fo, than to suppose a point, as flraight line, a circle, or an infinite, in treating of geometry.

Char. II. To prepare the way for treating this fubject, in that order which the revolutions of the last centuries have pointed out as the most natural, I have made the distribution of my plan in the following order. Population and agriculture are the foundations of the whole. Civil and domestic liberty, introduced into Europe by the dissolution of the feudal form of government, set trade and industry on foot; these produced wealth and credit; these again debts and taxes; and all together established a perfectly new system of political oeconomy, the principles of which it is my intention to deduce and examine.

Population and agriculture, as I have faid, must be the basis of the whole, in all ages of the world; and as they are so blended together in their connections and relations, as to make the separation of them quite incompatible with perspicuity and order, they have naturally been made the subject of the first book.

Chap. III. I have shewn, that the first principle of multiplication is generation; the second is food: the one gives existence and life; the other preserves them.

The earth's fpontaneous fruits being of a determined quantity, never can feed above a determined number. Labour is a method of augmenting the productions of nature, and in proportion to the augmentation, numbers may increase. From these positions, I conclude.

Chap. IV. That the numbers of mankind must ever have been in proportion to the produce of the earth; and this produce must constantly be in the compound ratio of the fertility of the soil, and labour of the inhabitants. Consequently, there can be no determined universal proportion over the world, between the number of those necessary for labouring the soil, and of those who may be maintained by its produce. Here I am led to examine the motives which may induce one part of a free people to labour, in order to feed the other.

This I shew to proceed from the different wants to which mankind are liable. Here I introduce a statesman, as being necessary to model the Chap. V. spirit of a society. He contrives and encourages reciprocal objects of want, which have each their allurement. This engages every one in a different occupation, and must hurt the former simplicity of manners. I shew how essential it is, to keep a just balance throughout every part of industry, that no discouragement may be cast upon any branch of it, either from supersluity, or want; and I have pointed out, how the dividing of sood between parents and children, is the means of bringing on scarcity, which inconveniency can only be removed by an augmentation of labour.

If a fociety does not concur in this plan of reciprocal industry, their numbers will cease to increase; because the industrious will not feed the idle. This I call a state of a moral impossibility of increase in numbers, and I distinguish it from the physical impossibility, which can take place only when nature itself, not man, refuses to produce subsistence. From this I apply to each particular society what I had before sound applicable to mankind in general; to wit.

That the inhabitants of every country must be in the compound proportion of the quantity of food produced in it, and of the industry of the lower classes. If the food produced surpass the proportion of industry, the balance of food will be exported; if the industry surpasses the proportion of food, its desiciency must be supplied by imports.

Reciprocal wants excite to labour; confequently, those whose labour is not directed towards the cultivation of the foil, must live upon a furplus produced by those who do. This divides the society into two classes. The one I call farmers, the other free hands.

As the creating these reciprocal wants was what set the society to work, and distributed them naturally into the two classes we have mentioned; so the augmentation of wants will require an augmentation of free hands, and their demand for food will increase agriculture.

Here



The whole operation I have been describing preceds upon one supposition, to wit, that the people have a taste for labour, and the rich for supersluity. If these be covetous and admirers of simplicity; or those be lazy and void of ambision, the principles laid down will have no effect: and so in fact we find, that it is not in the finest countries in the world where most inhabitants are found, but in the most industrious.

Let it therefore never be faid, there are too many manufacturers in a free country. It is the fame thing as if it was faid, there are too few idle perfons, too few beggars, and too many husbandmen.

CHAP. VII. Here I break off my fubject, to answer an objection arising from these principles.

OBJ. How could the fimplicity of the antients be compatible with a great multiplication?

Answ. In antient times men were forced to labour the ground because they were slaves to others. In modern times the operation is more complex, and as a statesman cannot make slaves of his subjects, he must engage them to become slaves to their own passions and defires; this is the only method to make them labour the ground, and provided this be accomplished, by whatever means it is brought about, mankind will increase.

CHAP. VIII. This question being dismissed, I point out a method of estimating the proportion of numbers between the farmers and free hands of a country, only as an illustration of the principle already laid down,

CHAP. XXI. OF POLITICAL OECONOMY.

to wit, that it is the furplus of the farmers which goes for the fubfiftence of the others.

This furplus I shew to be the same thing as the value of the sand rents; and hence I conclude,

rft, That the rifing of the rents of lands proves the augmentation of industry, and the multiplication of free hands; but as rents may rife, and yet the number of inhabitants continue the same as before, I infer,

2dly, That the revolution must then mark the purging of the lands of superfluous mouths, and forcing these to quit their mother earth, in order to retire to towns and villages, where they may usefully swell the number of the free hands and apply to industry.

3dly, That the more a country is in tillage, the more it is inhabited, and the fewer free hands are to be found: that the more it is laid into pasture, the less it is inhabited, and the greater is the proportion of free hands.

Next I confider the principles which determine the place of refi-CHAP. IX. dence.

The farmers must live upon, or near the spot they labour; that is, either upon their farms or in their villages.

The free hands I divide into two conditions. The first composed of the proprietors of the surplus of food, that is the landlords; together with those who can purchase it with a revenue already acquired, that is, the monied interest. The second condition is composed of those who must purchase some of this surplus with their daily labour.

Those of the first condition may live where they please; those of the second must live where they can.

When those of the first choose to live together, a considerable number of those of the second must follow them, in order to supply their consumption. This forms towns and cities.

When a statesman places the whole administration of public affairs in the same city, this swells a capital.

VOL. I.

X

When

When manufacturers get together in bodies, they depend not directly upon confumers, but upon merchants. The fituation of their refidence depends upon circumflances relative to their occupation, provision and transportation of their work. From this hamlets swell into villages, and villages into towns. Sea ports owe their establishment to the increase of foreign trade.

Chap. X. As the collecting fuch numbers of inhabitants together is a late revolution in the political occonomy of Europe, I endeavour to give a fhort historical representation of it, and examine the consequences which result from it, both to the state from the growth of cities, and to the land proprietors from the desertion, as I may call it, of so many vassals and dependents. One principal effect I observe to be, the additional occupation it has given to statesmen; that is to say, political occonomy is thereby become more complex.

Char. XI. Formerly the inhabitants were dispersed, and by sucking, as it were, their mother earth, were more easily subsisted now industry has gathered them together, and industry must support them. The failing of industry, is like the cutting off the subsistence of an army. This is the care of a general to prevent, that the care of a statesman.

The fupporting industry means no more than employing those who must live by it; and keeping their numbers in proportion to their work. The first point, therefore, is to find work for the prefent inhabitants; the second is, to make them multiply, if the demand for their labour increases.

Increasing numbers will never remove, but rather augment such inconveniencies, as proceed from the abuses of those already existing.

In order to employ a people rightly, it is proper to know the exact flate of numbers necessary for supplying the demand for every occupation; to distribute those who must live by their industry into proper classes; and to make every class (as far as possible) at least, support their own numbers by propagation.

Where the value of any species of industry is not sufficient for that purpose, a proper remedy must be applied. When any are found incapable, from age or infirmities, to gain their livelihood, they must be maintained. Infants exposed by their parents must be taken care of, and thrown back into the lowest classes of the people; the most numerous always, and the most difficult to be supported by their own propagation. Marriage, without assistance will not succeed in a class who gain no more by their industry than a personal physical necessary. Here our oeconomy differs widely from that of the antients. Among them marriage was encouraged in many ways; but it was only for the free. These did not amount to one half of the people. The flaves who represented our lower classes were recruited from other countries, as they are

at prefent in America.

If, therefore, according to modern oeconomy, the lowest species of labour must be kept cheap, in order to make manufactures flourish, the state must be at the expence of the children; for as matters stand, either the unmarried gain as much as the married should do, and become extravagant; or the married gain no more than the unmarried can do, and become miserable. An unequal competition between people of the same class, always implies one of these inconveniencies; and from these principally proceeds the decay and misery of such numbers in all modern states, as well as the constant complaints of the augmentation of the price of labour.

Every individual is equally inspired with a desire to propagate. A people can no more remain without propagating, than a tree without growing: but no more can live than can be fed; and as all augmentations of food must come at last to a stop, so soon as this happens, a people increase no more; that is to say, the proportion of those who die annually increases. This insensibly deters from propagation, because we are rational creatures. But still there are some who, though rational, are not provident; these marry and produce. This I call vicious propagation. Hence I distinguish propagation into two branches, to wit, multiplication, which goes on

Where

among these who can feed what they breed, and mere procreation, which takes place among those who cannot maintain their offspring.

This last produces a political disease, which mortality cures at the expence of much mifery; as forest trees which are not pruned. dress themselves and become vigorous at the expence of numbers which die all around. How to propose a remedy for this inconveniency, without laying fome reftraint upon marriage; how to lay a restraint upon marriage without shocking the spirit of the times. I own I cannot find out; fo I leave every one to conjecture.

Although a complete remedy cannot be obtained against the effects of abusive procreation; yet with the help of accurate lifts of births and deaths for every class of people, many expedients may be fallen upon to preserve the few who escape the dangers of their infancy, from falling back into the unhappy class which produced them. From these lists the degree of mortality and nature of diseases, as well as the difference between the propagation of the easy and of the miserable, will plainly appear; and if it be the duty of a flatefman to keep all his people bufy, he certainly should acquire the most exact knowledge possible of the numbers and propagation of those of every denomination, that he may prevent any class from rising above or sinking below the standard, which is best proportioned to the demand for their respective industry.

Population and agriculture have fo close a connection with one another, that I find even the abuses to which they are feverally liable, perfectly fimilar. I have observed how naturally it must happen, that when too many of a fociety propagate, a part must flarve; when too many cultivate, a part must starve also. Here is the reason:

The more of a people cultivate a country, the fmaller portion of it must fall to every man's share; and when these portions are reduced fo low as to produce no more than what is necessary to feed the labourers, then agriculture is stocked to the utmost.

From this I divide agriculture into two branches; the one useful, the other abusive. The first is a trade, that is, a method of producing

CHAP. XXI. ducing not only fublishence for the labourers, but also a surplus to be provided for the free hands of the flate, for their subliflence, and for an equivalent either in work itself, or for the produce of it. The fecond is no trade, because it implies no alienation, but is purely a method of fubfilling. If, therefore, in any country where agriculture is exercifed as a trade, and where there are many free hands, the farmers should be allowed to multiply up to the proportion of the whole produce; would not all the free hands be forced to ftarye? What would be the advantage of having fo many farmers; for there is one evident loss? Every one would be entirely taken up in feeding himfelf, wants would disappear; life indeed would be simplified to the last degree, but the bond of society, mutual dependence, would be diffolved: therefore I call this species abusive, in proportion as these effects are produced. I cite several examples of this abusive agriculture in different countries, where I take occasion to observe, that the christian virtue, charity, in proportion to its extent, is as conducive to multiplication as either flavery, or industry: whatever gives food must give numbers. I do not say that charity is conducive to industry.

I next apply these general principles to a particular representation Char. given of the flate of population in the British isles; from which I conclude, that population there is not obstructed, either by losses fultained from war and commerce, or from the exportation of their fublishence, but from the political fituation of that country, which throws it at prefent into a moral incapacity of augmenting in num-

The establishment of trade and industry naturally rectifies this Chap. misapplication of agriculture, by purging the land of superfluous mouths, and thereby reduces it, as it ought to be, to a trade calculated to furnish a furplus, which comes to be fold for the labour of all the industrious. It is this alone which can rivet the bond of general dependence among free men who must live by their industry; by making one part laborious farmers, and the other ingenious tradelinen and manufacturers. It is by the vibration of the balance between these two classes, that multiplication and agriculture

culture are carried to their height. When industry free hands multiply above the standard, that is, their scale sinks; this raifes the price of food, and gives an additional encouragement to agriculture: when this again becomes the more weighty, food becomes plentiful and cheap, then numbers augment a-new. These reflections lead me to confider the effects of plentiful and scarce years in modern times, when famines are almost things unknown;

and I conclude.

CHAP. That were plentiful years more common, mankind would be more numerous; that were fcarce years more frequent, numbers would diminish. Then applying this observation to the state of exportations of grain from England, I am tempted to infer, that this kingdom, the most fertile perhaps in Europe, has never been found to produce, in one year, eighteen months full fublishence for all its inhabitants; nor ever less than ten months fcanty provision in the years of the greatest sterility.

When a country is fully peopled and continues to be industrious, food will come from abroad. When a loaf is to be had, the rich will eat it, though at the distance of a mile; and the poor may flarve, though at the next door. It is the demand of the rich, who multiply as much as they incline, which encourages agriculture even in foreign nations; therefore I conclude, that this multiplication is the cause, and that the progress of agriculture is but the effect of it.

A country once fully flocked may diminish in numbers, and still remain flocked. This must proceed from a change in the manner of living; as when an indolent people quit the confumption of the more abundant productions of the earth, to feek after delicacies. On the other hand, the industrious bring an additional fupply from abroad, and by furnishing strangers with the produce of their labour, they still go on and increase in numbers. This is the case of Holland: and this scheme will go on, until abuses at home raise the price of labour; and experience abroad, that universal school mistress, teaches foreigners to profit of their own advantages.

When food ceases to be augmented, numbers come to a stand; but trade may still go on and increase wealth: this will hire armies

OF POLITICAL OF CONOMY. CHAP. XXI.

of foreigners; fo the traders may read of their own battles, victories, and trophies, and by spending their money, never smell gun-

powder.

When they cannot augment their numbers, they will introduce CHAP. machines into many manufactures; and these will supply the want, without adding to the confumption of their food. Foreigners, aftonished at a novelty which lowers prices, and checks their growing industry, will copy the inventions; but being no more than fcholars, who go aukwardly to work, this improvement will throw many of their hands into idleness: the machines will be cried down, and the traders will laugh in their fleeves, well knowing that nothing is more easy than to put work into the hands of an industrious man made idle. Wit and genius, in short, will always fet him who possesses them above the level of his fellows, and when

one refource fails him, he will contrive another.

The wit I here mention is not that acquired in the closet; for Charthere one may learn, that an equal distribution of lands was so favourable to multiplication in antient times, that it must be owing to a contrary practice, that our numbers now are fo much smaller. But he who walks abroad, and fees millions who have not one moment's time to put a fpade in the ground, fo bufily are they employed in that branch of industry which is put into their hands, must readily conclude, that circumstances are changed, and that the fewer people are necessary for feeding the whole society, the more must remain free to be employed in providing every other thing that can make life agreeable, both to themselves and to ftrangers; who in return deliver into the hands of their industrious fervants, the enfigns of fuperiority and dominion, money. Who is best employed, he who works to feed himself, or he who works to be fed, cloathed, and supplied, disposing only of his superfluities to those whom, consequently, he shortly must command. This is obtained by the introduction of the useful species of agriculture, and by the explosion of the abusive. And when strangers are so kind as to allow their neighbours the privilege of clothing and adorning them, good nature, not to fay felf-interest, demands, in

return, that the first be indulged in a permission to exercise those branches of toil and labour which are the least profitable, though the most necessary for the subsistence of the latter.

When the eye of humanity considers the toil of the farmer, and the indifference of his rich countryman in fquandering, the abuse appears offensive. The rich man is advised to consider of the pain incurred by the foor hulbandman, in confequence of his diffination. Upon this the rich, touched with compassion, simplifies his way of life. The husbandman in a fury falls upon the reformer, and, in his rough way, gives him to understand, that he by no means looks upon him as his friend: for, fays he, do you take me for the rich man's flave; or do you imagine that I toil as I do, either by his command, or for any confideration for him? Not in the leaft, it is purely for his money; and from the time you perfuaded him to become an oeconomist, here am I, and my poor family, flarving. We are not the only people in this fituation; there is my neighbour who has all his hay and oats upon hand, fince, by your infligation, likewife, he difmiffed his ufeless horses. Do you think he will give his oats in charity to feed the poor? He is poor enough himself, and all those who have been working to get this provision together are in no better humour than I am. Hold your tongue, fays the reformer, you are a parcel of extravagant fellows, you labourers. A hundred years ago, one could have got as many of you as one pleafed, for the half of what you cost us at prefent. Give us back our lands, fays the other, at the rate we had them; and let us all be well fed before we give you a farthing, and you shall have us as cheap as ever. But do you think that after you have chased one half of us into towns, and raised your rents with the price of their food, that we can work twice as hard, and ferve you as formerly? No, Sir! you ought to have more fense than to expect it.

This is a sketch of the first book; I thought a short abridgment of it might be of service for recollecting ideas, and ranging them in order before I proceed.

END OF THE FIRST BOOK.

A N

INOUIRY

INTO THE

PRINCIPLES OF POLITICAL OECONOMY.

BOOK II.

OF TRADE AND INDUSTRY.

INTRODUCTION.

PEFORE I enter upon this fecond book, I must premise a word of connexion, in order to conduct the ideas of my reader by the same way through which the chain of my own thoughts, and the distribution of my plan have naturally led me.

My principal view hitherto has been to prepare the way for an examination of the principles of modern politics, by inquiring into those which have, less or more, operated regular effects in all the ages of the world.

In doing this, I confess, it has been impossible for me not to anticipate many things which, according to the plan I have laid down, will in some measure involve me in repetitions.

I propose to investigate principles which are all relative and depending upon one another. It is impossible to treat of these with VOL. I.

Y distinctness,