

# DAVID RICARDO (1772–1823)

David Ricardo was the first great self-conscious economic theorist. He used the premises of the theories of population and rent, coupled with the language of the labor theory of value, to generate a picture of long-run economic performance. The growth of population meant that the share of national income going to the landowners in the form of rent would increase; the per capita real income of labor would tend to the social minimum of subsistence (the physical minimum adjusted by custom and habit); so that of the decreasing proportion of national income left after rent would leave a falling rate of profit, after the income of the working class (increased in number, times the social minimum of subsistence). This was, indeed, a dismal picture—for all but the landowners.

Classical economic theory can be understood as a paradigm founded on the concept of capital, meaning by capital both fixed (plant and equipment) and circulating (advances to workers during the production process). From Smith comes the idea that the source of capital is saving; accumulation is central. For all of the Classicists, the deployment of capital both generates the social organization for production and sets labor in motion. Commodities are produced by means of other commodities: capital goods and the wage goods in effect advanced to labor. Output is a function of capital; the capital stock is necessarily on hand prior to production. Decisions over the allocation of the total capital stock effectively govern the use of technology, the allocation of resources between goods, the substance and rate of economic growth, and the distribution of income. The principal decision over allocation of capital is between fixed and circulating capital. Circulating capital, it was hypothesized, went into the wages fund, from which labor was paid: the average wage rate depended directly upon the size of the wages fund and inversely upon the size of the labor force. The critical socio-economic role is no longer that of the landowner but of the capitalist, who organizes production and provides the means of subsistence to the working class. It is clear that, however accurate or inaccurate, and however meaningful or meaningless, all this may be, the foregoing picture (and the related theories) derive from perceptions of the new urban, industrial, commercial capitalist market economy.

A great deal of controversy ensued, especially in the twentieth century, over the meaning of Ricardo's labor theory of value. His theory had pretty much all the trappings of a labor theory, but he modified it to take account of (1) variable ratios of fixed to circulating capital, (2) varying durability of fixed capital, and (3) varying rates of turnover of circulating capital. Ambiguity exists with regard to whether his theory is a theory of the measure or source of value, and whether, after his adjustments were made, his was an absolute or a relative labor theory of value. If one considers capital as so much stored-up labor, then everything is labor, and the adjustments are technical and not substantive. At any rate, for many later economists Ricardo's labor theory of value became transformed into a cost of production theory of value.

Also relevant is the view that, as with Smith's labor theory of value, one could distinguish value from price, and market price was to substantially all these people a matter of demand and supply—though this was frequently eclipsed by focusing on value as such. Finally, in the late twentieth century, Piero Sraffa reformulated Ricardo's (and Marx's) labor theory of value in such a way that, among other things, argued the dependence of value on the distribution of income. Sraffa's analysis relied implicitly upon some construction of an invariable measure of value—a recognition which Ricardo had made and on which he was working at the end of his life.

Ricardo developed a number of other theories, some original with him, and others a continuation of received ideas. These included the quantity theory of money (as evidenced in the earlier reading from Ricardo), the comparative-advantage theory of international trade, and the theory of diminishing returns in agriculture—as well as the theory of rent.

Ricardo also became concerned about what later came to be called technological unemployment, namely, unemployment consequent to the introduction of machinery—a significant concern juxtaposed to James Mill's and Jean-Baptiste Say's "law of the market," which argued that there could be no general overproduction or unemployment. This traces back, in effect, to ideas in Smith's *Wealth of Nations*, wherein one finds both capital setting labor in motion and capital substituting for labor.

One has to comprehend Ricardo's impressive accomplishments as a theorist in the context of his political agenda. Along with most of the other Classical economists, Ricardo was seeking to revise the institutional, especially the legal, framework of the economy to facilitate the extension of a modern market economy. This explains, for example, his approach to the Corn Laws, i.e., free trade, monetary and banking reform, population control, and so on.

The following excerpts from Ricardo's *Principles of Political Economy and Taxation* highlight the major themes in his analysis: the labor theory of value, rent, the theory of wages (with attendant commentary on the Poor Laws), the tendency toward a falling rate of profit, and the theory of comparative advantage in international trade—all of which very much set the tone for nineteenth-century Classical economic thinking.

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\* Further references to Ricardo's life and work can be found in the introduction to the previous reading from his *The High Price of Bullion*.

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# *On the Principles of Political Economy and Taxation (1817)\**

## **Chapter 1: On Value**

*The value of a commodity, or the quantity of any other commodity for which it will exchange, depends on the relative quantity of labour which is necessary for its production, and not on the greater or less compensation which is paid for that labour.*

It has been observed by Adam Smith, that ‘the word Value has two different meanings, and sometimes expresses the utility of some particular object, and sometimes the power of purchasing other goods which the possession of that object conveys. The one may be called value in use; the other value in exchange. The things,’ he continues, ‘which have the greatest value in use, have frequently little or no value in exchange; and, on the contrary, those which have the greatest value in exchange, have little or no value in use.’ Water and air are abundantly useful; they are indeed indispensable to existence, yet, under ordinary circumstances, nothing can be obtained in exchange for them. Gold, on the contrary, though of little use compared with air or water, will exchange for a great quantity of other goods.

Utility then is not the measure of exchangeable value, although it is absolutely essential to it. If a commodity were in no way useful,—in other words, if it could in no way contribute to our gratification,—it would be destitute of exchangeable value, however scarce it might be, or whatever quantity of labour might be necessary to procure it.

Possessing utility, commodities derive their exchangeable value from two sources: from their scarcity, and from the quantity of labour required to obtain them.

There are some commodities, the value of which is determined by their scarcity alone. No labour can increase the quantity of such goods, and therefore their value cannot be lowered by an increased supply. Some rare statues and pictures, scarce books and coins, wines of a peculiar quality, which can be made only from grapes grown on a particular soil, of which there is a very limited quantity, are all of this description. Their value is wholly independent of the quantity of labour originally necessary to produce them, and varies with the varying wealth and inclinations of those who are desirous to possess them.

These commodities, however, form a very small part of the mass of commodities daily exchanged in the market. By far the greatest part of those goods which are the objects of desire, are procured by labour, and they may be multiplied, not in one country alone, but in many, almost without any assignable limit, if we are disposed to bestow the labour necessary to obtain them.

\* London: John Murray, Albemarle-Street, third edition, 1821.

In speaking then of commodities, of their exchangeable value, and of the laws which regulate their relative prices, we mean always such commodities only as can be increased in quantity by the exertion of human industry, and on the production of which competition operates without restraint.

In the early stages of society, the exchangeable value of these commodities, or the rule which determines how much of one shall be given in exchange for another, depends almost exclusively on the comparative quantity of labour expended on each.

‘The real price of every thing,’ says Adam Smith, ‘what every thing really costs to the man who wants to acquire it, is the toil and trouble of acquiring it. What every thing is really worth to it, or the man who has acquired it, and who wants to dispose of it, or exchange it for something else, is the toil and trouble which it can save to himself, and which it can impose upon other people.’ ‘Labour was the first price—the original purchase-money that was paid for all things.’ Again, ‘in that early and rude state of society, which precedes both the accumulation of stock and the appropriation of land, the proportion between the quantities of labour necessary for acquiring different objects seems to be the only circumstance which can afford any rule for exchanging them for one another. If among a nation of hunters, for example, it usually cost twice the labour to kill a beaver which it does to kill a deer, one beaver should naturally exchange for, or be worth two deer. It is natural that what is usually the produce of two days’, or two hours’ labour, should be worth double of what is usually the produce of one day’s, or one hour’s labour.’

That this is really the foundation of the exchangeable value of all things, excepting those which cannot be increased by human industry, is a doctrine of the utmost importance in political economy; for from no source do so many errors, and so much difference of opinion in that science proceed, as from the vague ideas which are attached to the word value.

If the quantity of labour realized in commodities, regulate their exchangeable value, every increase of the quantity of labour must augment the value of that commodity on which it is exercised, as every diminution must lower it.

Adam Smith, who so accurately defined the original source of exchangeable value, and who was bound in consistency to maintain, that all things became more or less valuable in proportion as more or less labour was bestowed on their production, has himself erected another standard measure of value, and speaks of things being more or less valuable, in proportion as they will exchange for more or less of this standard measure. Sometimes he speaks of corn, at other times of labour, as a standard measure; not the quantity of labour bestowed on the production of any object, but the quantity which it can command in the market: as if these were two equivalent expressions, and as if because a man’s labour had become doubly efficient, and he could therefore produce twice the quantity of a commodity, he would necessarily receive twice the former quantity in exchange for it.

If this indeed were true, if the reward of the labourer were always in proportion to what he produced, the quantity of labour bestowed on a commodity, and the quantity of labour which that commodity would purchase, would be equal, and either might accurately measure the variations of other things: but they are not equal; the first is under many circumstances an invariable standard, indicating correctly the variations of other things; the latter is subject to as many fluctuations as the commodities compared with it. Adam Smith, after most ably showing the insufficiency of a variable medium, such as gold and silver, for the purpose of determining the varying value of other things, has himself, by fixing on corn or labour, chosen a medium no less variable.

Gold and silver are no doubt subject to fluctuations, from the discovery of new and more abundant mines; but such discoveries are rare, and their effects, though powerful, are

limited to periods of comparatively short duration. They are subject also to fluctuation, from improvements in the skill and machinery with which the mines may be worked; as in consequence of such improvements, a greater quantity may be obtained with the same labour. They are further subject to fluctuation from the decreasing produce of the mines, after they have yielded a supply to the world, for a succession of ages. But from which of these sources of fluctuation is corn exempted? Does not that also vary, on one hand, from improvements in agriculture, from improved machinery and implements used in husbandry, as well as from the discovery of new tracts of fertile land, which in other countries may be taken into cultivation, and which will affect the value of corn in every market where importation is free? Is it not on the other hand subject to be enhanced in value from prohibitions of importation, from increasing population and wealth, and the greater difficulty of obtaining the increased supplies, on account of the additional quantity of labour which the cultivation of inferior lands requires? Is not the value of labour equally variable; being not only affected, as all other things are, by the proportion between the supply and demand, which uniformly varies with every change in the condition of the community, but also by the varying price of food and other necessities, on which the wages of labour are expended?

In the same country double the quantity of labour may be required to produce a given quantity of food and necessities at one time, that may be necessary at another, and a distant time; yet the labourer's reward may possibly be very little diminished. If the labourer's wages at the former period, were a certain quantity of food and necessities, he probably could not have subsisted if that quantity had been reduced. Food and necessities in this case will have risen 100 per cent if estimated by the *quantity* of labour necessary to their production, while they will scarcely have increased in value, if measured by the quantity of labour for which they will *exchange*.

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If the shoes and clothing of the labourer, could, by improvements in machinery, be produced by one fourth of the labour now necessary to their production, they would probably fall 75 per cent; but so far is it from being true, that the labourer would thereby be enabled permanently to consume four coats, or four pair of shoes, instead of one, that it is probable his wages would in no long time be adjusted by the effects of competition, and the stimulus to population, to the new value of the necessities on which they were expended. If these improvements extended to all the objects of the labourer's consumption, we should find him probably at the end of a very few years, in possession of only a small, if any, addition to his enjoyments, although the exchangeable value of those commodities, compared with any other commodity, in the manufacture of which no such improvement were made, had sustained a very considerable reduction; and though they were the produce of a very considerably diminished quantity of labour.

It cannot then be correct, to say with Adam Smith, 'that as labour may sometimes purchase a greater, and sometimes a smaller quantity of goods, it is their value which varies, not that of the labour which purchases them;' and therefore, 'that labour alone never varying in its own value, is alone the ultimate and real standard by which the value of all commodities can at all times and places be estimated and compared;'—but it is correct to say, as Adam Smith had previously said, 'that the proportion between the quantities of labour necessary for acquiring different objects seems to be the only circumstance which can afford any rule for exchanging them for one another;' or in other words, that it is the comparative quantity of commodities which labour will produce, that determines their present or past relative value, and not the comparative quantities of commodities, which are given to the labourer in exchange for his labour.



Two commodities vary in relative value, and we wish to know in which the variation has really taken place. If we compare the present value of one, with shoes, stockings, hats, iron, sugar, and all other commodities, we find that it will exchange for precisely the same quantity of all these things as before. If we compare the other with the same commodities, we find it has varied with respect to them all: we may then with great probability infer that the variation has been in this commodity, and not in the commodities with which we have compared it. If on examining still more particularly into all the circumstances connected with the production of these various commodities, we find that precisely the same quantity of labour and capital are necessary to the production of the shoes, stockings, hats, iron, sugar, &c.; but that the same quantity as before is not necessary to produce the single commodity whose relative value is altered, probability is changed into certainty, and we are sure that the variation is in the single commodity. We then discover also the cause of its variation.

If I found that an ounce of gold would exchange for a less quantity of all the commodities above enumerated, and many others; and if, moreover, I found that by the discovery of a new and more fertile mine, or by the employment of machinery to great advantage, a given quantity of gold could be obtained with a less quantity of labour, I should be justified in saying that the cause of the alteration in the value of gold relatively to other commodities, was the greater facility of its production, or the smaller quantity of labour necessary to obtain it. In like manner, if labour fell very considerably in value, relatively to all other things, and if I found that its fall was in consequence of an abundant supply, encouraged by the great facility with which corn, and the other necessities of the labourer, were produced, it would, I apprehend, be correct for me to say that corn and necessities had fallen in value in consequence of less quantity of labour being necessary to produce them, and that this facility of providing for the support of the labourer had been followed by a fall in the value of labour. No, say Adam Smith and Mr Malthus, in the case of the gold you were correct in calling its variation a fall of its value, because corn and labour had not then varied; and as gold would command a less quantity of them, as well as of all other things, than before, it was correct to say that all things had remained stationary, and that gold only had varied; but when corn and labour fall, things which we have selected to be our standard measure of value, notwithstanding all the variations to which we acknowledge they are subject, it would be highly improper to say so; the correct language will be to say, that corn and labour have remained stationary, and all other things have risen in value.

Now it is against this language that I protest. I find that precisely, as in the case of the gold, the cause of the variation between corn and other things, is the smaller quantity of labour necessary to produce it, and therefore, by all just reasoning, I am bound to call the variation of corn and labour a fall in their value, and not a rise in the value of the things with which they are compared. If I have to hire a labourer for a week, and instead of ten shillings I pay him eight, no variation having taken place in the value of money, the labourer can probably obtain more food and necessities, with his eight shillings, than he before obtained for ten: but this is owing, not to a rise in the real value of his wages, as stated by Adam Smith, and more recently by Mr Malthus, but to a fall in the value of the things on which his wages are expended, things perfectly distinct; and yet for calling this a fall in the real value of wages, I am told that I adopt new and unusual language, not reconcileable with the true principles of the science. To me it appears that the unusual and, indeed, inconsistent language, is that used by my opponents.

Suppose a labourer to be paid a bushel of corn for a week's work, when the price of corn is 80s. per quarter, and that he is paid a bushel and a quarter when the price falls to 40s. Suppose, too, that he consumes half a bushel of corn a-week in his own family, and exchanges

the remainder for other things, such as fuel, soap, candles, tea, sugar, salt, &c. &c.; if the three-fourths of a bushel which will remain to him, in one case, cannot procure him as much of the above commodities as half a bushel did in the other, which it will not, will labour have risen or fallen in value? Risen, Adam Smith must say, because his standard is corn, and the labourer receives more corn for a week's labour. Fallen, must the same Adam Smith say, 'because the value of a thing depends on the power of purchasing other goods which the possession of that object conveys,' and labour has a less power of purchasing such other goods.

## **Section II**

*Labour of different qualities differently rewarded. This is no cause of variation in the relative value of commodities.*

In speaking, however, of labour, as being the foundation of all value, and the relative quantity of labour as almost exclusively determining the relative value of commodities, I must not be supposed to be inattentive to the different qualities of labour, and the difficulty of comparing an hour's or a day's labour, in one employment, with the same duration of labour in another. The estimation in which different qualities of labour are held, comes soon to be adjusted in the market with sufficient precision for all practical purposes, and depends much on the comparative skill of the labourer, and intensity of the labour performed. The scale, when once formed, is liable to little variation. If a day's labour of a working jeweller be more valuable than a day's labour of a common labourer, it has long ago been adjusted, and placed in its proper position in the scale of value.

In comparing therefore the value of the same commodity, at different periods of time, the consideration of the comparative skill and intensity of labour, required for that particular commodity, needs scarcely to be attended to, as it operates equally at both periods. One description of labour at one time is compared with the same description of labour at another; if a tenth, a fifth, or a fourth, has been added or taken away, an effect proportioned to the cause will be produced on the relative value of the commodity.

If a piece of cloth be now of the value of two pieces of linen, and if, in ten years hence, the ordinary value of a piece of cloth should be four pieces of linen, we may safely conclude, that either more labour is required to make the cloth, or less to make the linen, or that both causes have operated.

As the inquiry to which I wish to draw the reader's attention, relates to the effect of the variations in the relative value of commodities, and not in their absolute value, it will be of little importance to examine into the comparative degree of estimation in which the different kinds of human labour are held. We may fairly conclude, that whatever inequality there might originally have been in them, whatever the ingenuity, skill, or time necessary for the acquirement of one species of manual dexterity more than another, it continues nearly the same from one generation to another; or at least, that the variation is very inconsiderable from year to year, and therefore, can have little effect, for short periods, on the relative value of commodities.

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## **Section III**

*Not only the labour applied immediately to commodities affect their value, but the labour also which is bestowed on the complements, tools, and buildings, with which much labour is assisted.*



Even in that early state to which Adam Smith refers, some capital, though possibly made and accumulated by the hunter himself, would be necessary to enable him to kill his game. Without some weapon, neither the beaver nor the deer could be destroyed, and therefore the value of these animals would be regulated, not solely by the time and labour necessary to their destruction, but also by the time and labour necessary for providing the hunter's capital, the weapon, by the aid of which their destruction was effected.

Suppose the weapon necessary to kill the beaver, was constructed with much more labour than that necessary to kill the deer, on account of the greater difficulty of approaching near to the former animal, and the consequent necessity of its being more true to its mark; one beaver would naturally be of more value than two deer, and precisely for this reason, that more labour would, on the whole, be necessary to its destruction. Or suppose that the same quantity of labour was necessary to make both weapons, but that they were of very unequal durability; of the durable implement only a small portion of its value would be transferred to the commodity, a much greater portion of the value of the less durable implement would be realized in the commodity which it contributed to produce.

All the implements necessary to kill the beaver and deer might belong to one class of men, and the labour employed in their destruction might be furnished by another class; still, their comparative prices would be in proportion to the actual labour bestowed, both on the formation of the capital, and on the destruction of the animals. Under different circumstances of plenty or scarcity of capital, as compared with labour, under different circumstances of plenty or scarcity of the food and necessities essential to the support of men, those who furnished an equal value of capital for either one employment or for the other, might have a half, a fourth, or an eighth of the produce obtained, the remainder being paid as wages to those who furnished the labour; yet this division could not affect the relative value of these commodities, since whether the profits of capital were greater or less, whether they were 50, 20, or 10 per cent or whether the wages of labour were high or low, they would operate equally on both employments.

If we suppose the occupations of the society extended, that some provide canoes and tackle necessary for fishing, others the seed and rude machinery first used in agriculture, still the same principle would hold true, that the exchangeable value of the commodities produced would be in proportion to the labour bestowed on their production; not on their immediate production only, but on all those implements or machines required to give effect to the particular labour to which they were applied.

If we look to a state of society in which greater improvements have been made, and in which arts and commerce flourish, we shall still find that commodities vary in value conformably with this principle: in estimating the exchangeable value of stockings, for example, we shall find that their value, comparatively with other things, depends on the total quantity of labour necessary to manufacture them, and bring them to market. First, there is the labour necessary to cultivate the land on which the raw cotton is grown; secondly, the labour of conveying the cotton to the country where the stockings are to be manufactured, which includes a portion of the labour bestowed in building the ship in which it is conveyed, and which is charged in the freight of the goods; thirdly, the labour of the spinner and weaver; fourthly, a portion of the labour of the engineer, smith, and carpenter, who erected the buildings and machinery, by the help of which they are made; fifthly, the labour of the retail dealer, and of many others, whom it is unnecessary further to particularize. The aggregate sum of these various kinds of labour, determines the quantity of other things for which these stockings will exchange, while the same consideration of the various quantities of labour which have been bestowed on those other things, will equally govern the portion of them which will be given for the stockings.

To convince ourselves that this is the real foundation of exchangeable value, let us suppose any improvement to be made in the means of abridging labour in any one of the various processes through which the raw cotton must pass, before the manufactured stockings come to the market, to be exchanged for other things; and observe the effects which will follow. If fewer men were required to cultivate the raw cotton, or if fewer sailors were employed in navigating, or shipwrights in constructing the ship, in which it was conveyed to us; if fewer hands were employed in raising the buildings and machinery, or if these, when raised, were rendered more efficient, the stockings would inevitably fall in value, and consequently command less of other things. They would fall, because a less quantity of labour was necessary to their production, and would therefore exchange for a smaller quantity of those things in which no such abridgment of labour had been made.

Economy in the use of labour never fails to reduce the relative value of a commodity, whether the saving be in the labour necessary to the manufacture of the commodity itself, or in that necessary to the formation of the capital, by the aid of which it is produced. In either case the price of stockings would fall, whether there were fewer men employed as bleachers, spinners, and weavers, persons immediately necessary to their manufacture; or as sailors, carriers, engineers, and smiths, persons more indirectly concerned. In the one case, the whole saving of labour would fall on the stockings, because that portion of labour was wholly confined to the stockings; in the other, a portion only would fall on the stockings, the remainder being applied to all those other commodities, to the production of which the buildings, machinery, and carriage, were subservient.

Suppose that in the early stages of society, the bows and arrows of the hunter were of equal value, and of equal durability, with the canoe and implements of the fisherman, both being the produce of the same quantity of labour. Under such circumstances the value of the deer, the produce of the hunter's day's labour, would be exactly equal to the value of the fish, the produce of the fisherman's day's labour. The comparative value of the fish and the game, would be entirely regulated by the quantity of labour realized in each; whatever might be the quantity of production, or however high or low general wages or profits might be. If for example the canoes and implements of the fisherman were of the value of £100 and were calculated to last for ten years, and he employed ten men, whose annual labour cost £100 and who in one day obtained by their labour twenty salmon: If the weapons employed by the hunter were also of £100 value and calculated to last ten years, and if he also employed ten men, whose annual labour cost £100 and who in one day procured him ten deer; then the natural price of a deer would be two salmon, whether the proportion of the whole produce bestowed on the men who obtained it, were large or small. The proportion which might be paid for wages, is of the utmost importance in the question of profits; for it must at once be seen, that profits would be high or low, exactly in proportion as wages were low or high; but it could not in the least affect the relative value of fish and game, as wages would be high or low at the same time in both occupations. If the hunter urged the plea of his paying a large proportion, or the value of a large proportion of his game for wages, as an inducement to the fisherman to give him more fish in exchange for his game, the latter would state that he was equally affected by the same cause; and therefore under all variations of wages and profits, under all the effects of accumulation of capital, as long as they continued by a day's labour to obtain respectively the same quantity of fish, and the same quantity of game, the natural rate of exchange would be one deer for two salmon.

If with the same quantity of labour a less quantity of fish, or a greater quantity of game were obtained, the value of fish would rise in comparison with that of game. If, on the

contrary, with the same quantity of labour a less quantity of game, or a greater quantity of fish was obtained, game would rise in comparison with fish.

If there were any other commodity which was invariable in its value, we should be able to ascertain, by comparing the value of fish and game with this commodity, how much of the variation was to be attributed to a cause which affected the value of fish, and how much to a cause which affected the value of game.

Suppose money to be that commodity. If a salmon were worth £1 and a deer £2 one deer would be worth two salmon. But a deer might become of the value of three salmon, for more labour might be required to obtain the deer, or less to get the salmon or both these causes might operate at the same time. If we had this invariable standard, we might easily ascertain in what degree either of these causes operated. If salmon continued to sell for £1 whilst deer rose to £3 we might conclude that more labour was required to obtain the deer. If deer continued at the same price of £2 and salmon sold for 13s. 4d. we might then be sure that less labour was required to obtain the salmon; and if deer rose to £2 10s. and salmon fell to 16s. 8d. we should be convinced that both causes had operated in producing the alteration of the relative value of these commodities.

No alteration in the wages of labour could produce any alteration in the relative value of these commodities; for suppose them to rise, no greater quantity of labour would be required in any of these occupations, but it would be paid for at a higher price, and the same reasons which should make the hunter and fisherman endeavour to raise the value of their game and fish, would cause the owner of the mine to raise the value of his gold. This inducement acting with the same force on all these three occupations, and the relative situation of those engaged in them being the same before and after the rise of wages, the relative value of game, fish, and gold, would continue unaltered. Wages might rise twenty per cent, and profits consequently fall in a greater or less proportion, without occasioning the least alteration in the relative value of these commodities.

Now suppose, that with the same labour and fixed capital, more fish could be produced, but no more gold or game, the relative value of fish would fall in comparison with gold or game. If, instead of twenty salmon, twenty-five were the produce of one day's labour, the price of a salmon would be sixteen shillings instead of a pound, and two salmon and a half, instead of two salmon, would be given in exchange for one deer, but the price of deer would continue at £2 as before. In the same manner, if fewer fish could be obtained with the same capital and labour, fish would rise in comparative value. Fish then would rise or fall in exchangeable value, only because more or less labour was required to obtain a given quantity; and it never could rise or fall beyond the proportion of the increased or diminished quantity of labour required.

If we had then an invariable standard, by which to measure the variation in other commodities, we should find that the utmost limit to which they could permanently rise, if produced under the circumstances supposed, was proportioned to the additional quantity of labour required for their production; and that unless more labour were required for their production, they could not rise in any degree whatever. A rise of wages would not raise them in money value, nor relatively to any other commodities, the production of which required no additional quantity of labour, which employed the same proportion of fixed and circulating capital, and fixed capital of the same durability. If more or less labour were required in the production of the other commodity, we have already stated that this will immediately occasion an alteration in its relative value, but such alteration is owing to the altered quantity of requisite labour, and not to the rise of wages.

**Section IV**

*The principle that the quantity of labour bestowed on the production of commodities regulates their relative value, considerably modified by the employment of machinery and other fixed and durable capital.*

In the former section we have supposed the implements and weapons necessary to kill the deer and salmon, to be equally durable, and to be the result of the same quantity of labour, and we have seen that the variations in the relative value of deer and salmon depended solely on the varying quantities of labour necessary to obtain them,—but in every state of society, the tools, implements, buildings, and machinery employed in different trades may be of various degrees of durability, and may require different portions of labour to produce them. The proportions, too, in which the capital that is to support labour, and the capital that is invested in tools, machinery and buildings, may be variously combined. This difference in the degree of durability of fixed capital, and this variety in the proportions in which the two sorts of capital may be combined, introduce another cause, besides the greater or less quantity of labour necessary to produce commodities, for the variations in their relative value—this cause is the rise or fall in the value of labour.

The food and clothing consumed by the labourer, the buildings in which he works, the implements with which his labour is assisted, are all of a perishable nature. There is however a vast difference in the time for which these different capitals will endure: a steam-engine will last longer than a ship, a ship than the clothing of the labourer, and the clothing of the labourer longer than the food which he consumes.

According as capital is rapidly perishable, and requires to be frequently reproduced, or is of slow consumption, it is classed under the heads of circulating, or of fixed capital. A brewer, whose buildings and machinery are valuable and durable, is said to employ a large portion of fixed capital: on the contrary, a shoemaker, whose capital is chiefly employed in the payment of wages, which are expended on food and clothing, commodities more perishable than buildings and machinery, is said to employ a large proportion of his capital as circulating capital.

It is also to be observed that the circulating capital may circulate, or be returned to its employer, in very unequal times. The wheat bought by a farmer to sow is comparatively a fixed capital to the wheat purchased by a baker to make into loaves. One leaves it in the ground, and can obtain no return for a year; the other can get it ground into flour, sell it as bread to his customers, and have his capital free to renew the same, or commence any other employment in a week.

Two trades then may employ the same amount of capital; but it may be very differently divided with respect to the portion which is fixed, and that which is circulating.

In one trade very little capital may be employed as circulating capital, that is to say in the support of labour—it may be principally invested in machinery, implements, buildings, &c. capital of a comparatively fixed and durable character. In another trade the same amount of capital may be used, but it may be chiefly employed in the support of labour, and very little may be invested in implements, machines, and buildings. A rise in the wages of labour cannot fail to affect unequally, commodities produced under such different circumstances.

Again two manufacturers may employ the same amount of fixed, and the same amount of circulating capital; but the durability of their fixed capitals may be very unequal. One may have steam-engines of the value of £10,000, the other, ships of the same value.

If men employed no machinery in production but labour only, and were all the same length of time before they brought their commodities to market, the exchangeable value of their goods would be precisely in proportion to the quantity of labour employed.

If they employed fixed capital of the same value and of the same durability, then, too, the value of the commodities produced would be the same, and they would vary with the greater or less quantity of labour employed on their production.

But although commodities produced under similar circumstances, would not vary with respect to each other, from any cause but an addition or diminution of the quantity of labour necessary to produce one or other of them, yet compared with others not produced with the same proportionate quantity of fixed capital, they would vary from the other cause also which I have before mentioned, namely, a rise in the value of labour, although neither more nor less labour were employed in the production of either of them. Barley and oats would continue to bear the same relation to each other under any variation of wages. Cotton goods and cloth would do the same, if they also were produced under circumstances precisely similar to each other, but yet with a rise or fall of wages, barley might be more or less valuable compared with cotton goods, and oats compared with cloth.

Suppose two men employ one hundred men each for a year in the construction of two machines, and another man employs the same number of men in cultivating corn, each of the machines at the end of the year will be of the same value as the corn, for they will each be produced by the same quantity of labour. Suppose one of the owners of one of the machines to employ it, with the assistance of one hundred men, the following year in making cloth, and the owner of the other machine to employ his also, with the assistance likewise of one hundred men, in making cotton goods, while the farmer continues to employ one hundred men as before in the cultivation of corn. During the second year they will all have employed the same quantity of labour, but the goods and machine together of the clothier, and also of the cotton manufacturer, will be the result of the labour of two hundred men, employed for a year; or, rather, of the labour of one hundred men for two years; whereas the corn will be produced by the labour of one hundred men for one year, consequently if the corn be of the value of £500 the machine and cloth of the clothier together, ought to be of the value of £1,000 and the machine and cotton goods of the cotton manufacturer ought to be also of twice the value of the corn. But they will be of more than twice the value of the corn, for the profit on the clothier's and cotton manufacturer's capital for the first year has been added to their capitals, while that of the farmer has been expended and enjoyed. On account then of the different degrees of durability of their capitals, or, which is the same thing, on account of the time which must elapse before one set of commodities can be brought to market, they will be valuable, not exactly in proportion to the quantity of labour bestowed on them,—they will not be as two to one, but something more, to compensate for the greater length of time which must elapse before the most valuable can be brought to market.

Suppose that for the labour of each workman £50 per annum were paid, or that £5,000 capital were employed and profits were 10 per cent, the value of each of the machines as well as of the corn, at the end of the first year, would be £5,500. The second year the manufacturers and farmer will again employ £5,000 each in the support of labour, and will therefore again sell their goods for £5,500, but the men using the machines, to be on a par with the farmer, must not only obtain £5,500, for the equal capitals of £5,000 employed on labour, but they must obtain a further sum of £550; for the profit on £5,500 which they have invested in machinery, and consequently their goods must sell for £6,050. Here then are capitalists employing precisely the same quantity of labour annually on the production of their commodities, and yet the goods they produce differ in value on account of the different quantities



of fixed capital, or accumulated labour, employed by each respectively. The cloth and cotton goods are of the same value, because they are the produce of equal quantities of labour, and equal quantities of fixed capital; but corn is not of the same value as these commodities, because it is produced, as far as regards fixed capital, under different circumstances.

But how will their relative value be affected by a rise in the value of labour? It is evident that the relative values of cloth and cotton goods will undergo no change, for what affects one must equally affect the other, under the circumstances supposed: neither will the relative values of wheat and barley undergo any change, for they are produced under the same circumstances as far as fixed and circulating capital are concerned; but the relative value of corn to cloth, or to cotton goods, must be altered by a rise of labour.

There can be no rise in the value of labour without a fall of profits. If the corn is to be divided between the farmer and the labourer, the larger the proportion that is given to the latter, the less will remain for the former. So if cloth or cotton goods be divided between the workman and his employer, the larger the proportion given to the former, the less remains for the latter. Suppose then, that owing to a rise of wages, profits fall from 10 to 9 per cent, instead of adding £550 to the common price of their goods (to £5,500) for the profits on their fixed capital, the manufacturers would add only 9 per cent on that sum, or £495, consequently the price would be £5,995 instead of £6,050. As the corn would continue to sell for £5,500, the manufactured goods in which more fixed capital was employed, would fall relatively to corn or to any other goods in which a less portion of fixed capital entered. The degree of alteration in the relative value of goods, on account of a rise or fall of labour, would depend on the proportion which the fixed capital bore to the whole capital employed. All commodities which are produced by very valuable machinery, or in very valuable buildings, or which require a great length of time before they can be brought to market, would fall in relative value, while all those which were chiefly produced by labour, or which would be speedily brought to market would rise in relative value.

The reader, however, should remark, that this cause of the variation of commodities is comparatively slight in its effects. With such a rise of wages as should occasion a fall of one per cent in profits, goods produced under the circumstances I have supposed, vary in relative value only one per cent: they fall with so great a fall of profits from £6,050 to £5,995. The greatest effects which could be produced on the relative prices of these goods from a rise of wages, could not exceed 6 or 7 per cent; for profits could not, probably, under any circumstances, admit of a greater general and permanent depression than to that amount.

Not so with the other great cause of the variation in the value of commodities, namely, the increase or diminution in the quantity of labour necessary to produce them. If to produce the corn, eighty, instead of one hundred men, should be required, the value of the corn would fall 20 per cent or from £5,500 to £4,400. If to produce the cloth, the labour of eighty instead of one hundred men would suffice, cloth would fall from £6,050 to £4,950. An alteration in the permanent rate of profits, to any great amount, is the effect of causes which do not operate but in the course of years; whereas alterations in the quantity of labour necessary to produce commodities, are of daily occurrence. Every improvement in machinery, in tools, in buildings, in raising the raw material, saves labour, and enables us to produce the commodity to which the improvement is applied with more facility, and consequently its value alters. In estimating, then, the causes of the variations in the value of commodities, although it would be wrong wholly to omit the consideration of the effect produced by a rise or fall of labour, it would be equally incorrect to attach much importance to it; and consequently, in the subsequent part of this work, though I shall occasionally refer to this cause of variation, I shall consider all the great variations which take place in the relative value of commodities to be



produced by the greater or less quantity of labour which may be required from time to time to produce them.

It is hardly necessary to say, that commodities which have the same quantity of labour bestowed on their production, will differ in exchangeable value, if they cannot be brought to market in the same time.

Suppose I employ twenty men at an expense of £1,000 for a year in the production of a commodity, and at the end of the year I employ twenty men again for another year, at a further expense of £1,000 in finishing or perfecting the same commodity, and that I bring it to market at the end of two years, if profits be 10 per cent, my commodity must sell for £2,310; for I have employed £1,000 capital for one year, and £2,100 capital for one year more. Another man employs precisely the same quantity of labour, but he employs it all in the first year; he employs forty men at an expense of £2,000, and at the end of the first year he sells it with 10 per cent profit, or for £2,200. Here then are two commodities having precisely the same quantity of labour bestowed on them, one of which sells for £2,310—the other for £2,200.

This case appears to differ from the last, but is, in fact, the same. In both cases the superior price of one commodity is owing to the greater length of time which must elapse before it can be brought to market. In the former case the machinery and cloth were more than double the value of the corn, although only double the quantity of labour was bestowed on them. In the second case, one commodity is more valuable than the other, although no more labour was employed on its production. The difference in value arises in both cases from the profits being accumulated as capital, and is only a just compensation for the time that the profits were withheld.

It appears then that the division of capital into different proportions of fixed and circulating capital, employed in different trades, introduces a considerable modification to the rule, which is of universal application when labour is almost exclusively employed in production; namely, that commodities never vary in value, unless a greater or less quantity of labour be bestowed on their production, it being shown in this section that without any variation in the quantity of labour, the rise of its value merely will occasion a fall in the exchangeable value of those goods, in the production of which fixed capital is employed; the larger the amount of fixed capital, the greater will be the fall.

### Section V

*The principle that value does not vary with the rise or fall of wages, modified also by the unequal durability of capital, and by the unequal rapidity with which it is returned to its employer.*

In the last section we have supposed that of two equal capitals in two different occupations, the proportions of fixed and circulating capitals were unequal, now let us suppose them to be in the same proportion but of unequal durability. In proportion as fixed capital is less durable, it approaches to the nature of circulating capital. It will be consumed and its value reproduced in a shorter time, in order to preserve the capital of the manufacturer. We have just seen, that in proportion as fixed capital preponderates in a manufacture, when wages rise, the value of commodities produced in that manufacture, is relatively lower than that of commodities produced in manufactures where circulating capital preponderates. In proportion to the less durability of fixed capital, and its approach to the nature of circulating capital, the same effect will be produced by the same cause.

...

It will be seen, then, that in the early stages of society, before much machinery or durable capital is used, the commodities produced by equal capitals will be nearly of equal value, and will rise or fall only relatively to each other on account of more or less labour being required for their production; but after the introduction of these expensive and durable instruments, the commodities produced by the employment of equal capitals will be of very unequal value; and although they will still be liable to rise or fall relatively to each other, as more or less labour becomes necessary to their production, they will be subject to another, though a minor variation, also, from the rise or fall of wages and profits. Since goods which sell for £5,000 may be the produce of a capital equal in amount to that from which are produced other goods which sell for £10,000, the profits on their manufacture will be the same; but those profits would be unequal, if the prices of the goods did not vary with a rise or fall in the rate of profits.

It appears, too, that in proportion to the durability of capital employed in any kind of production, the relative prices of those commodities on which such durable capital is employed, will vary inversely as wages; they will fall as wages rise, and rise as wages fall; and, on the contrary, those which are produced chiefly by labour with less fixed capital, or with fixed capital of a less durable character than the medium in which price is estimated, will rise as wages rise, and fall as wages fall.

## **Section VI**

### *On an invariable measure of value.*

When commodities varied in relative value, it would be desirable to have the means of ascertaining which of them fell and which rose in real value, and this could be effected only by comparing them one after another with some invariable standard measure of value, which should itself be subject to none of the fluctuations to which other commodities are exposed. Of such a measure it is impossible to be possessed, because there is no commodity which is not itself exposed to the same variations as the things, the value of which is to be ascertained; that is, there is none which is not subject to require more or less labour for its production. But if this cause of variation in the value of a medium could be removed—if it were possible that in the production of our money for instance, the same quantity of labour should at all times be required, still it would not be a perfect standard or invariable measure of value, because, as I have already endeavoured to explain, it would be subject to relative variations from a rise or fall of wages, on account of the different proportions of fixed capital which might be necessary to produce it, and to produce those other commodities whose alteration of value we wished to ascertain. It might be subject to variations too, from the same cause, on account of the different degrees of durability of the fixed capital employed on it, and the commodities to be compared with it—or the time necessary to bring the one to market, might be longer or shorter than the time necessary to bring the other commodities to market, the variations of which were to be determined; all which circumstances disqualify any commodity that can be thought of from being a perfectly accurate measure of value.

If, for example, we were to fix on gold as a standard, it is evident that it is but a commodity obtained under the same contingencies as every other commodity, and requiring labour and fixed capital to produce it. Like every other commodity, improvements in the saving of labour might be applied to its production, and consequently it might fall in relative value to other things merely on account of the greater facility of producing it.

If we suppose this cause of variation to be removed, and the same quantity of labour to be always required to obtain the same quantity of gold, still gold would not be a perfect measure of value, by which we could accurately ascertain the variations in all other things, because it would not be produced with precisely the same combinations of fixed and circulating capital as all other things; nor with fixed capital of the same durability; nor would it require precisely the same length of time, before it could be brought to market. It would be a perfect measure of value for all things produced under the same circumstances precisely as itself, but for no others. If, for example, it were produced under the same circumstances as we have supposed necessary to produce cloth and cotton goods, it would be a perfect measure of value for those things, but not so for corn, for coals, and other commodities produced with either a less or a greater proportion of fixed capital, because, as we have shown, every alteration in the permanent rate of profits would have some effect on the relative value of all these goods, independently of any alteration in the quantity of labour employed on their production. If gold were produced under the same circumstances as corn, even if they never changed, it would not, for the same reasons, be at all times a perfect measure of the value of cloth and cotton goods. Neither gold then, nor any other commodity, can ever be a perfect measure of value for all things; but I have already remarked, that the effect on the relative prices of things, from a variation in profits, is comparatively slight; that by far the most important effects are produced by the varying quantities of labour required for production; and therefore, if we suppose this important cause of variation removed from the production of gold, we shall probably possess as near an approximation to a standard measure of value as can be theoretically conceived. May not gold be considered as a commodity produced with such proportions of the two kinds of capital as approach nearest to the average quantity employed in the production of most commodities? May not these proportions be so nearly equally distant from the two extremes, the one where little fixed capital is used, the other where little labour is employed, as to form a just mean between them?

If, then, I may suppose myself to be possessed of a standard so nearly approaching to an invariable one, the advantage is, that I shall be enabled to speak of the variations of other things, without embarrassing myself on every occasion with the consideration of the possible alteration in the value of the medium in which price and value are estimated.

To facilitate, then, the object of this enquiry, although I fully allow that money made of gold is subject to most of the variations of other things, I shall suppose it to be invariable, and therefore all alterations in price to be occasioned by some alteration in the value of the commodity of which I may be speaking.

Before I quit this subject, it may be proper to observe, that Adam Smith, and all the writers who have followed him, have, without one exception that I know of, maintained that a rise in the price of labour would be uniformly followed by a rise in the price of all commodities. I hope I have succeeded in showing, that there are no grounds for such an opinion, and that only those commodities would rise which had less fixed capital employed upon them than the medium in which price was estimated, and that all those which had more, would positively fall in price when wages rose. On the contrary, if wages fell, those commodities only would fall, which had a less proportion of fixed capital employed on them, than the medium in which price was estimated; all those which had more, would positively rise in price.

It is necessary for me also to remark, that I have not said, because one commodity has so much labour bestowed upon it as will cost £1,000 and another so much as will cost £2,000 that therefore one would be of the value of £1,000 and the other of the value of £2,000 but I have said that their value will be to each other as two to one, and that in those proportions they will be exchanged. It is of no importance to the truth of this doctrine, whether one of

these commodities sells for £1,100 and the other for £2,200, or one for £1,500 and the other for £3,000; into that question I do not at present enquire; I affirm only, that their relative values will be governed by the relative quantities of labour bestowed on their production.

## Chapter 2: On Rent

It remains however to be considered, whether the appropriation of land, and the consequent creation of rent, will occasion any variation in the relative value of commodities, independently of the quantity of labour necessary to production. In order to understand this part of the subject, we must enquire into the nature of rent, and the laws by which its rise or fall is regulated.

Rent is that portion of the produce of the earth, which is paid to the landlord for the use of the original and indestructible powers of the soil. It is often, however, confounded with the interest and profit of capital, and, in popular language, the term is applied to whatever is annually paid by a farmer to his landlord. If, of two adjoining farms of the same extent, and of the same natural fertility, one had all the conveniences of farming buildings, and, besides, were properly drained and manured, and advantageously divided by hedges, fences and walls, while the other had none of these advantages, more remuneration would naturally be paid for the use of one, than for the use of the other; yet in both cases this remuneration would be called rent. But it is evident, that a portion only of the money annually to be paid for the improved farm, would be given for the original and indestructible powers of the soil; the other portion would be paid for the use of the capital which had been employed in ameliorating the quality of the land, and in erecting such buildings as were necessary to secure and preserve the produce. . . . This is a distinction of great importance, in an enquiry concerning rent and profits; for it is found, that the laws which regulate the progress of rent, are widely different from those which regulate the progress of profits, and seldom operate in the same direction. In all improved countries, that which is annually paid to the landlord, partaking of both characters, rent and profit, is sometimes kept stationary by the effects of opposing causes; at other times advances or recedes, as one or the other of these causes preponderates. In the future pages of this work, then, whenever I speak of the rent of land, I wish to be understood as speaking of that compensation, which is paid to the owner of land for the use of its original and indestructible powers.

On the first settling of a country, in which there is an abundance of rich and fertile land, a very small proportion of which is required to be cultivated for the support of the actual population, or indeed can be cultivated with the capital which the population can command, there will be no rent; for no one would pay for the use of land, when there was an abundant quantity not yet appropriated, and, therefore, at the disposal of whosoever might choose to cultivate it.

On the common principles of supply and demand, no rent could be paid for such land, for the reason stated why nothing is given for the use of air and water, or for any other of the gifts of nature which exist in boundless quantity. With a given quantity of materials, and with the assistance of the pressure of the atmosphere, and the elasticity of steam, engines may perform work, and abridge human labour to a very great extent; but no charge is made for the use of these natural aids, because they are inexhaustible, and at every man's disposal. In the same manner the brewer, the distiller, the dyer, make incessant use of the air and water for the production of their commodities; but as the supply is boundless, they bear no price. If all land had the same properties, if it were unlimited in quantity, and uniform in quality, no charge could be made for its use, unless where it possessed peculiar advantages of situation.

It is only, then, because land is not unlimited in quantity and uniform in quality, and because in the progress of population, land of an inferior quality, or less advantageously situated, is called into cultivation, that rent is ever paid for the use of it. When in the progress of society, land of the second degree of fertility is taken into cultivation, rent immediately commences on that of the first quality, and the amount of that rent will depend on the difference in the quality of these two portions of land.

When land of the third quality is taken into cultivation, rent immediately commences on the second, and it is regulated as before, by the difference in their productive powers. At the same time, the rent of the first quality will rise, for that must always be above the rent of the second, by the difference between the produce which they yield with a given quantity of capital and labour. With every step in the progress of population, which shall oblige a country to have recourse to land of a worse quality, to enable it to raise its supply of food, rent, on all the more fertile land, will rise.

Thus suppose land—No. 1, 2, 3,—to yield, with an equal employment of capital and labour, a net produce of 100, 90, and 80 quarters of corn. In a new country, where there is an abundance of fertile land compared with the population, and where therefore it is only necessary to cultivate No. 1, the whole net produce will belong to the cultivator, and will be the profits of the stock which he advances. As soon as population had so far increased as to make it necessary to cultivate No. 2, from which ninety quarters only can be obtained after supporting the labourers, rent would commence on No. 1; for either there must be two rates of profit on agricultural capital, or ten quarters, or the value of ten quarters must be withdrawn from the produce of No. 1, for some other purpose. Whether the proprietor of the land, or any other person, cultivated No. 1, these ten quarters would equally constitute rent; for the cultivator of No. 2 would get the same result with his capital, whether he cultivated No. 1, paying ten quarters for rent, or continued to cultivate No. 2, paying no rent. In the same manner it might be shown that when No. 3 is brought into cultivation, the rent of No. 2 must be ten quarters, or the value of ten quarters, whilst the rent of No. 1 would rise to twenty quarters; for the cultivator of No. 3 would have the same profits whether he paid twenty quarters for the rent of No. 1, ten quarters for the rent of No. 2, or cultivated No. 3 free of all rent.

...

The most fertile, and most favourably situated, land will be first cultivated, and the exchangeable value of its produce will be adjusted in the same manner as the exchangeable value of all other commodities, by the total quantity of labour necessary in various forms, from first to last, to produce it, and bring it to market. When land of an inferior quality is taken into cultivation, the exchangeable value of raw produce will rise, because more labour is required to produce it.

The exchangeable value of all commodities, whether they be manufactured, or the produce of the mines, or the produce of land, is always regulated, not by the less quantity of labour that will suffice for their production under circumstances highly favourable, and exclusively enjoyed by those who have peculiar facilities of production; but by the greater quantity of labour necessarily bestowed on their production by those who have no such facilities; by those who continue to produce them under the most unfavourable circumstances; meaning—by the most unfavourable circumstances, the most unfavourable under which the quantity of produce required, renders it necessary to carry on the production.

...



It is true, that on the best land, the same produce would still be obtained with the same labour as before, but its value would be enhanced in consequence of the diminished returns obtained by those who employed fresh labour and stock on the less fertile land. Notwithstanding, then, that the advantages of fertile over inferior lands are in no case lost, but only transferred from the cultivator, or consumer, to the landlord, yet, since more labour is required on the inferior lands, and since it is from such land only that we are enabled to furnish ourselves with the additional supply of raw produce, the comparative value of that produce will continue permanently above its former level, and make it exchange for more hats, cloth, shoes, &c. &c. in the production of which no such additional quantity of labour is required.

The reason then, why raw produce rises in comparative value, is because more labour is employed in the production of the last portion obtained, and not because a rent is paid to the landlord. The value of corn is regulated by the quantity of labour bestowed on its production on that quality of land, or with that portion of capital, which pays no rent. Corn is not high because a rent is paid, but a rent is paid because corn is high; and it has been justly observed, that no reduction would take place in the price of corn, although landlords should forego the whole of their rent. Such a measure would only enable some farmers to live like gentlemen, but would not diminish the quantity of labour necessary to raise raw produce on the least productive land in cultivation.

Nothing is more common than to hear of the advantages which the land possesses over every other source of useful produce, on account of the surplus which it yields in the form of rent. Yet when land is most abundant, when most productive, and most fertile, it yields no rent; and it is only when its powers decay, and less is yielded in return for labour, that a share of the original produce of the more fertile portions is set apart for rent. It is singular that this quality in the land, which should have been noticed as an imperfection, compared with the natural agents by which manufacturers are assisted, should have been pointed out as constituting its peculiar pre-eminence. If air, water, the elasticity of steam, and the pressure of the atmosphere, were of various qualities; if they could be appropriated, and each quality existed only in moderate abundance, they, as well as the land, would afford a rent, as the successive qualities were brought into use. With every worse quality employed, the value of the commodities in the manufacture of which they were used, would rise, because equal quantities of labour would be less productive. Man would do more by the sweat of his brow, and nature perform less; and the land would be no longer pre-eminent for its limited powers.

...

The rise of rent is always the effect of the increasing wealth of the country, and of the difficulty of providing food for its augmented population. It is a symptom, but it is never a cause of wealth; for wealth often increases most rapidly while rent is either stationary, or even falling. Rent increases most rapidly, as the disposable land decreases in its productive powers. Wealth increases most rapidly in those countries where the disposable land is most fertile, where importation is least restricted, and where through agricultural improvements, productions can be multiplied without any increase in the proportional quantity of labour, and where consequently the progress of rent is slow.

If the high price of corn were the effect, and not the cause of rent, price would be proportionally influenced as rents were high or low, and rent would be a component part of price. But that corn which is produced by the greatest quantity of labour is the regulator of the price of corn; and rent does not and cannot enter in the least degree as a component part of its price. Adam Smith, therefore, cannot be correct in supposing that the original rule which regulated the exchangeable value of commodities, namely, the comparative quantity of labour by



which they were produced, can be at all altered by the appropriation of land and the payment of rent. Raw material enters into the composition of most commodities, but the value of that raw material, as well as corn, is regulated by the productiveness of the portion of capital last employed on the land, and paying no rent; and therefore rent is not a component part of the price of commodities.

...

Without multiplying instances, I hope enough has been said to show, that whatever diminishes the inequality in the produce obtained from successive portions of capital employed on the same or on new land, tends to lower rent; and that whatever increases that inequality, necessarily produces an opposite effect, and tends to raise it.

In speaking of the rent of the landlord, we have rather considered it as the proportion of the produce, obtained with a given capital on any given farm, without any reference to its exchangeable value; but since the same cause, the difficulty of production, raises the exchangeable value of raw produce, and raises also the proportion of raw produce paid to the landlord for rent, it is obvious that the landlord is doubly benefited by difficulty of production. First, he obtains a greater share, and secondly the commodity in which he is paid is of greater value.

## **Chapter 5: On Wages**

Labour, like all other things which are purchased and sold, and which may be increased or diminished in quantity, has its natural and its market price. The natural price of labour is that price which is necessary to enable the labourers, one with another, to subsist and to perpetuate their race, without either increase or diminution.

The power of the labourer to support himself, and the family which may be necessary to keep up the number of labourers, does not depend on the quantity of money which he may receive for wages, but on the quantity of food, necessities, and conveniences become essential to him from habit, which that money will purchase. The natural price of labour, therefore, depends on the price of the food, necessities, and conveniences required for the support of the labourer and his family. With a rise in the price of food and necessities, the natural price of labour will rise; with the fall in their price, the natural price of labour will fall.

With the progress of society the natural price of labour has always a tendency to rise, because one of the principal commodities by which its natural price is regulated, has a tendency to become dearer, from the greater difficulty of producing it. As, however, the improvements in agriculture, the discovery of new markets, whence provisions may be imported, may for a time counteract the tendency to a rise in the price of necessities, and may even occasion their natural price to fall, so will the same causes produce the correspondent effects on the natural price of labour.

The natural price of all commodities, excepting raw produce and labour, has a tendency to fall, in the progress of wealth and population; for though, on one hand, they are enhanced in real value, from the rise in the natural price of the raw material of which they are made, this is more than counterbalanced by the improvements in machinery, by the better division and distribution of labour, and by the increasing skill, both in science and art, of the producers.

The market price of labour is the price which is really paid for it, from the natural operation of the proportion of the supply to the demand; labour is dear when it is scarce, and cheap when it is plentiful. However much the market price of labour may deviate from its natural price, it has, like commodities, a tendency to conform to it.

It is when the market price of labour exceeds its natural price, that the condition of the labourer is flourishing and happy, that he has it in his power to command a greater proportion of the necessities and enjoyments of life, and therefore to rear a healthy and numerous family. When, however, by the encouragement which high wages give to the increase of population, the number of labourers is increased, wages again fall to their natural price, and indeed from a reaction sometimes fall below it.

When the market price of labour is below its natural price, the condition of the labourers is most wretched: then poverty deprives them of those comforts which custom renders absolute necessities. It is only after their privations have reduced their number, or the demand for labour has increased, that the market price of labour will rise to its natural price, and that the labourer will have the moderate comforts which the natural rate of wages will afford.

Notwithstanding the tendency of wages to conform to their natural rate, their market rate may, in an improving society, for an indefinite period, be constantly above it; for no sooner may the impulse, which an increased capital gives to a new demand for labour be obeyed, than another increase of capital may produce the same effect; and thus, if the increase of capital be gradual and constant, the demand for labour may give a continued stimulus to an increase of people.

...

Thus, then, with every improvement of society, with every increase in its capital, the market wages of labour will rise; but the permanence of their rise will depend on the question, whether the natural price of labour has also risen; and this again will depend on the rise in the natural price of those necessities on which the wages of labour are expended.

It is not to be understood that the natural price of labour, estimated even in food and necessities, is absolutely fixed and constant. It varies at different times in the same country, and very materially differs in different countries. It essentially depends on the habits and customs of the people. An English labourer would consider his wages under their natural rate, and too scanty to support a family, if they enabled him to purchase no other food than potatoes, and to live in no better habitation than a mud cabin; yet these moderate demands of nature are often deemed sufficient in countries where 'man's life is cheap', and his wants easily satisfied. Many of the conveniences now enjoyed in an English cottage, would have been thought luxuries at an earlier period of our history.

From manufactured commodities always falling, and raw produce always rising, with the progress of society, such a disproportion in their relative value is at length created, that in rich countries a labourer, by the sacrifice of a very small quantity only of his food, is able to provide liberally for all his other wants.

Independently of the variations in the value of money, which necessarily affect money wages, but which we have here supposed to have no operation, as we have considered money to be uniformly of the same value, it appears then that wages are subject to a rise or fall from two causes:

1st. The supply and demand of labourers.

2dly. The price of the commodities on which the wages of labour are expended.

In different stages of society, the accumulation of capital, or of the means of employing labour, is more or less rapid, and must in all cases depend on the productive powers of labour. The productive powers of labour are generally greatest when there is an abundance of fertile

land: at such periods accumulation is often so rapid, that labourers cannot be supplied with the same rapidity as capital.

It has been calculated, that under favourable circumstances population may be doubled in twenty-five years; but under the same favourable circumstances, the whole capital of a country might possibly be doubled in a shorter period. In that case, wages during the whole period would have a tendency to rise, because the demand for labour would increase still faster than the supply.

In new settlements, where the arts and knowledge of countries far advanced in refinement are introduced, it is probable that capital has a tendency to increase faster than mankind: and if the deficiency of labourers were not supplied by more populous countries, this tendency would very much raise the price of labour. In proportion as these countries become populous, and land of a worse quality is taken into cultivation, the tendency to an increase of capital diminishes; for the surplus produce remaining, after satisfying the wants of the existing population, must necessarily be in proportion to the facility of production, viz. to the smaller number of persons employed in production. Although, then, it is probable, that under the most favourable circumstances, the power of production is still greater than that of population, it will not long continue so; for the land being limited in quantity, and differing in quality, with every increased portion of capital employed on it, there will be a decreased rate of production, whilst the power of population continues always the same.

In those countries where there is abundance of fertile land, but where, from the ignorance, indolence, and barbarism of the inhabitants, they are exposed to all the evils of want and famine, and where it has been said that population presses against the means of subsistence, a very different remedy should be applied from that which is necessary in long settled countries, where, from the diminishing rate of the supply of raw produce, all the evils of a crowded population are experienced. In the one case, the evil proceeds from bad government, from the insecurity of property, and from a want of education in all ranks of the people. To be made happier they require only to be better governed and instructed, as the augmentation of capital, beyond the augmentation of people, would be the inevitable result. No increase in the population can be too great, as the powers of production are still greater. In the other case, the population increases faster than the funds required for its support. Every exertion of industry, unless accompanied by a diminished rate of increase in the population, will add to the evil, for production cannot keep pace with it.

With a population pressing against the means of subsistence, the only remedies are either a reduction of people, or a more rapid accumulation of capital. In rich countries, where all the fertile land is already cultivated, the latter remedy is neither very practicable nor very desirable, because its effect would be, if pushed very far, to render all classes equally poor. But in poor countries, where there are abundant means of production in store, from fertile land not yet brought into cultivation, it is the only safe and efficacious means of removing the evil, particularly as its effect would be to elevate all classes of the people.

The friends of humanity cannot but wish that in all countries the labouring classes should have a taste for comforts and enjoyments, and that they should be stimulated by all legal means in their exertions to procure them. There cannot be a better security against a superabundant population. In those countries, where the labouring classes have the fewest wants, and are contented with the cheapest food, the people are exposed to the greatest vicissitudes and miseries. They have no place of refuge from calamity; they cannot seek safety in a lower station; they are already so low, that they can fall no lower. On any deficiency of the chief article of their subsistence, there are few substitutes of which they can avail themselves, and dearth to them is attended with almost all the evils of famine.

In the natural advance of society, the wages of labour will have a tendency to fall, as far as they are regulated by supply and demand; for the supply of labourers will continue to increase at the same rate, whilst the demand for them will increase at a slower rate. If, for instance, wages were regulated by a yearly increase of capital, at the rate of 2 per cent, they would fall when it accumulated only at the rate of  $1\frac{1}{2}$  per cent. They would fall still lower when it increased only at the rate of 1, or  $\frac{1}{2}$  per cent, and would continue to do so until the capital became stationary, when wages also would become stationary, and be only sufficient to keep up the numbers of the actual population. I say that, under these circumstances, wages would fall, if they were regulated only by the supply and demand of labourers; but we must not forget, that wages are also regulated by the prices of the commodities on which they are expended.

As population increases, these necessities will be constantly rising in price, because more labour will be necessary to produce them. If, then, the money wages of labour should fall, whilst every commodity on which the wages of labour were expended rose, the labourer would be doubly affected, and would be soon totally deprived of subsistence. Instead, therefore, of the money wages of labour falling, they would rise; but they would not rise sufficiently to enable the labourer to purchase as many comforts and necessities as he did before the rise in the price of those commodities. If his annual wages were before £24, or six quarters of corn when the price was £4 per quarter, he would probably receive only the value of five quarters when corn rose to £5 per quarter. But five quarters would cost £25; he would therefore receive an addition in his money wages, though with that addition he would be unable to furnish himself with the same quantity of corn and other commodities, which he had before consumed in his family.

Notwithstanding, then, that the labourer would be really worse paid, yet this increase in his wages would necessarily diminish the profits of the manufacturer; for his goods would sell at no higher price, and yet the expense of producing them would be increased. This, however, will be considered in our examination into the principles which regulate profits.

It appears, then, that the same cause which raises rent, namely, the increasing difficulty of providing an additional quantity of food with the same proportional quantity of labour, will also raise wages; and therefore if money be of an unvarying value, both rent and wages will have a tendency to rise with the progress of wealth and population.

But there is this essential difference between the rise of rent and the rise of wages. The rise in the money value of rent is accompanied by an increased share of the produce; not only is the landlord's money rent greater, but his corn rent also; he will have more corn, and each defined measure of that corn will exchange for a greater quantity of all other goods which have not been raised in value. The fate of the labourer will be less happy; he will receive more money wages, it is true, but his corn wages will be reduced; and not only his command of corn, but his general condition will be deteriorated, by his finding it more difficult to maintain the market rate of wages above their natural rate. While the price of corn rises 10 per cent, wages will always rise less than 10 per cent, but rent will always rise more; the condition of the labourer will generally decline, and that of the landlord will always be improved.

...

In proportion as corn became dear, he would receive less corn wages, but his money wages would always increase, whilst his enjoyments, on the above supposition, would be precisely the same. But as other commodities would be raised in price in proportion as raw produce entered into their composition, he would have more to pay for some of them. Although his tea, sugar, soap, candles, and house rent, would probably be no dearer, he would pay more

for his bacon, cheese, butter, linen, shoes, and cloth; and therefore, even with the above increase of wages, his situation would be comparatively worse. But it may be said that I have been considering the effect of wages on price, on the supposition that gold, or the metal from which money is made, is the produce of the country in which wages varied; and that the consequences which I have deduced agree little with the actual state of things, because gold is a metal of foreign production. The circumstance, however, of gold being a foreign production, will not invalidate the truth of the argument, because it may be shewn, that whether it were found at home, or were imported from abroad, the effects ultimately and, indeed, immediately would be the same.

...

These then are the laws by which wages are regulated, and by which the happiness of far the greatest part of every community is governed. Like all other contracts, wages should be left to the fair and free competition of the market, and should never be controlled by the interference of the legislature.

The clear and direct tendency of the poor laws, is in direct opposition to these obvious principles: it is not, as the legislature benevolently intended, to amend the condition of the poor, but to deteriorate the condition of both poor and rich; instead of making the poor rich, they are calculated to make the rich poor; and whilst the present laws are in force, it is quite in the natural order of things that the fund for the maintenance of the poor should progressively increase, till it has absorbed all the net revenue of the country, or at least so much of it as the state shall leave to us, after satisfying its own never failing demands for the public expenditure.

This pernicious tendency of these laws is no longer a mystery, since it has been fully developed by the able hand of Mr Malthus; and every friend to the poor must ardently wish for their abolition. Unfortunately, however, they have been so long established, and the habits of the poor have been so formed upon their operation, that to eradicate them with safety from our political system, requires the most cautious and skilful management. It is agreed by all who are most friendly to a repeal of these laws, that if it be desirable to prevent the most overwhelming distress to those for whose benefit they were erroneously enacted, their abolition should be effected by the most gradual steps.

It is a truth which admits not a doubt, that the comforts and well-being of the poor cannot be permanently secured without some regard on their part, or some effort on the part of the legislature, to regulate the increase of their numbers, and to render less frequent among them early and improvident marriages. The operation of the system of poor laws has been directly contrary to this. They have rendered restraint superfluous, and have invited imprudence, by offering it a portion of the wages of prudence and industry.

The nature of the evil points out the remedy. By gradually contracting the sphere of the poor laws; by impressing on the poor the value of independence, by teaching them that they must look not to systematic or casual charity, but to their own exertions for support, that prudence and forethought are neither unnecessary nor unprofitable virtues, we shall by degrees approach a sounder and more healthful state.

No scheme for the amendment of the poor laws merits the least attention, which has not their abolition for its ultimate object; and he is the best friend to the poor, and to the cause of humanity, who can point out how this end can be attained with the most security, and at the same time with the least violence. It is not by raising in any manner different from the present, the fund from which the poor are supported, that the evil can be mitigated. It would not only be no improvement, but it would be an aggravation of the distress which we wish



to see removed, if the fund were increased in amount, or were levied according to some late proposals, as a general fund from the country at large. The present mode of its collection and application has served to mitigate its pernicious effects. Each parish raises a separate fund for the support of its own poor. Hence it becomes an object of more interest and more practicability to keep the rates low, than if one general fund were raised for the relief of the poor of the whole kingdom. A parish is much more interested in an economical collection of the rate, and a sparing distribution of relief, when the whole saving will be for its own benefit, than if hundreds of other parishes were to partake of it.

It is to this cause, that we must ascribe the fact of the poor laws not having yet absorbed all the net revenue of the country; it is to the rigour with which they are applied, that we are indebted for their not having become overwhelmingly oppressive. If by law every human being wanting support could be sure to obtain it, and obtain it in such a degree as to make life tolerably comfortable, theory would lead us to expect that all other taxes together would be light compared with the single one of poor rates. The principle of gravitation is not more certain than the tendency of such laws to change wealth and power into misery and weakness; to call away the exertions of labour from every object, except that of providing mere subsistence; to confound all intellectual distinction; to busy the mind continually in supplying the body's wants; until at last all classes should be infected with the plague of universal poverty. Happily these laws have been in operation during a period of progressive prosperity, when the funds for the maintenance of labour have regularly increased, and when an increase of population would be naturally called for. But if our progress should become more slow; if we should attain the stationary state, from which I trust we are yet far distant, then will the pernicious nature of these laws become more manifest and alarming; and then, too, will their removal be obstructed by many additional difficulties.

## Chapter 6: On Profits

The profits of stock, in different employments, having been shewn to bear a proportion to each other, and to have a tendency to vary all in the same degree and in the same direction, it remains for us to consider what is the cause of the permanent variations in the rate of profit, and the consequent permanent alterations in the rate of interest.

We have seen that the price of corn is regulated by the quantity of labour necessary to produce it, with that portion of capital which pays no rent. We have seen, too, that all manufactured commodities rise and fall in price, in proportion as more or less labour becomes necessary to their production. Neither the farmer who cultivates that quantity of land, which regulates price, nor the manufacturer, who manufactures goods, sacrifice any portion of the produce for rent. The whole value of their commodities is divided into two portions only: one constitutes the profits of stock, the other the wages of labour.

Supposing corn and manufactured goods always to sell at the same price, profits would be high or low in proportion as wages were low or high. But suppose corn to rise in price because more labour is necessary to produce it; that cause will not raise the price of manufactured goods in the production of which no additional quantity of labour is required. If, then, wages continued the same, the profits of manufacturers would remain the same; but if, as is absolutely certain, wages should rise with the rise of corn, then their profits would necessarily fall.

If a manufacturer always sold his goods for the same money, for £1,000, for example, his profits would depend on the price of the labour necessary to manufacture those goods. His profits would be less when wages amounted to £800 than when he paid only £600.



In proportion then as wages rose, would profits fall. But if the price of raw produce would increase, it may be asked, whether the farmer at least would not have the same rate of profits, although he should pay an additional sum for wages? Certainly not: for he will not only have to pay, in common with the manufacturer, an increase of wages to each labourer he employs, but he will be obliged either to pay rent, or to employ an additional number of labourers to obtain the same produce; and the rise in the price of raw produce will be proportioned only to that rent, or that additional number, and will not compensate him for the rise of wages.

If both the manufacturer and farmer employed ten men, on wages rising from £24 to £25 per annum per man, the whole sum paid by each would be £250 instead of £240. This is, however, the whole addition that would be paid by the manufacturer to obtain the same quantity of commodities; but the farmer on new land would probably be obliged to employ an additional man, and therefore to pay an additional sum of £25 for wages; and the farmer on the old land would be obliged to pay precisely the same additional sum of £25 for rent; without which additional labour, corn would not have risen, nor rent have been increased. One will therefore have to pay £275 for wages alone, the other, for wages and rent together; each £25 more than the manufacturer: for this latter £25 the farmer is compensated by the addition to the price of raw produce, and therefore his profits still conform to the profits of the manufacturer. . . .

. . .

There are few commodities which are not more or less affected in their price by the rise of raw produce, because some raw material from the land enters into the composition of most commodities. Cotton goods, linen, and cloth, will all rise in price with the rise of wheat; but they rise on account of the greater quantity of labour expended on the raw material from which they are made, and not because more was paid by the manufacturer to the labourers whom he employed on those commodities.

In all cases, commodities rise because more labour is expended on them, and not because the labour which is expended on them is at a higher value. Articles of jewellery, of iron, of plate, and of copper, would not rise, because none of the raw produce from the surface of the earth enters into their composition.

It may be said that I have taken it for granted, that money wages would rise with a rise in the price of raw produce, but that this is by no means a necessary consequence, as the labourer may be contented with fewer enjoyments. It is true that the wages of labour may previously have been at a high level, and that they may bear some reduction. If so, the fall of profits will be checked; but it is impossible to conceive that the money price of wages should fall, or remain stationary with a gradually increasing price of necessaries; and therefore it may be taken for granted that, under ordinary circumstances, no permanent rise takes place in the price of necessaries, without occasioning, or having been preceded by a rise in wages.

The effects produced on profits would have been the same, or nearly the same, if there had been any rise in the price of those other necessaries, besides food, on which the wages of labour are expended. The necessity which the labourer would be under of paying an increased price for such necessaries, would oblige him to demand more wages; and whatever increases wages, necessarily reduces profits. But suppose the price of silks, velvets, furniture, and any other commodities, not required by the labourer, to rise in consequence of more labour being expended on them, would not that affect profits? Certainly not: for nothing can affect profits but a rise in wages; silks and velvets are not consumed by the labourer, and therefore cannot raise wages.

It is to be understood that I am speaking of profits generally. I have already remarked, that the market price of a commodity may exceed its natural or necessary price, as it may be produced in less abundance than the new demand for it requires. This, however, is but a temporary effect. The high profits on capital employed in producing that commodity, will naturally attract capital to that trade; and as soon as the requisite funds are supplied, and the quantity of the commodity is duly increased, its price will fall, and the profits of the trade will conform to the general level. A fall in the general rate of profits is by no means incompatible with a partial rise of profits in particular employments. It is through the inequality of profits, that capital is moved from one employment to another. Whilst then general profits are falling, and gradually setting at a lower level in consequence of the rise of wages, and the increasing difficulty of supplying the increasing population with necessaries, the profits of the farmer may, for an interval of some little duration, be above the former level. An extraordinary stimulus may be also given for a certain time, to a particular branch of foreign and colonial trade; but the admission of this fact by no means invalidates the theory, that profits depend on high or low wages, wages on the price of necessaries, and the price of necessaries chiefly on the price of food, because all other requisites may be increased almost without limit.

It should be recollected that prices always vary in the market, and in the first instance, through the comparative state of demand and supply. Although cloth could be furnished at 40s. per yard, and give the usual profits of stock, it may rise to 60 or 80s. from a general change of fashion, or from any other cause which should suddenly and unexpectedly increase the demand, or diminish the supply of it. The makers of cloth will for a time have unusual profits, but capital will naturally flow to that manufacture, till the supply and demand are again at their fair level, when the price of cloth will again sink to 40s., its natural or necessary price. In the same manner, with every increased demand for corn, it may rise so high as to afford more than the general profits to the farmer. If there be plenty of fertile land, the price of corn will again fall to its former standard, after the requisite quantity of capital has been employed in producing it, and profits will be as before; but if there be not plenty of fertile land, if, to produce this additional quantity, more than the usual quantity of capital and labour be required, corn will not fall to its former level. Its natural price will be raised, and the farmer, instead of obtaining permanently larger profits, will find himself obliged to be satisfied with the diminished rate which is the inevitable consequence of the rise of wages, produced by the rise of necessaries.

The natural tendency of profits then is to fall; for in the progress of society and wealth, the additional quantity of food required is obtained by the sacrifice of more and more labour. This tendency, this gravitation as it were of profits, is happily checked at repeated intervals by the improvements in machinery, connected with the production of necessaries, as well as by discoveries in the science of agriculture which enable us to relinquish a portion of labour before required, and therefore to lower the price of the prime necessary of the labourer. The rise in the price of necessaries and in the wages of labour is however limited; for as soon as wages should be equal (as in the case formerly stated) to £720, the whole receipts of the farmer, there must be an end of accumulation; for no capital can then yield any profit whatever, and no additional labour can be demanded, and consequently population will have reached its highest point. Long indeed before this period, the very low rate of profits will have arrested all accumulation, and almost the whole produce of the country, after paying the labourers, will be the property of the owners of land and the receivers of tithes and taxes.

...

## Chapter 7: On Foreign Trade

No extension of foreign trade will immediately increase the amount of value in a country, although it will very powerfully contribute to increase the mass of commodities, and therefore the sum of enjoyments. As the value of all foreign goods is measured by the quantity of the produce of our land and labour, which is given in exchange for them, we should have no greater value, if by the discovery of new markets, we obtained double the quantity of foreign goods in exchange for a given quantity of ours. If by the purchase of English goods to the amount of £1,000, a merchant can obtain a quantity of foreign goods, which he can sell in the English market for £1,200, he will obtain 20 per cent profit by such an employment of his capital; but neither his gains, nor the value of the commodities imported, will be increased or diminished by the greater or smaller quantity of foreign goods obtained. Whether, for example, he imports twenty-five or fifty pipes of wine, his interest can be no way affected, if at one time the twenty-five pipes, and at another the fifty pipes, equally sell for £1,200. In either case his profit will be limited to £200, or 20 per cent on his capital; and in either case the same value will be imported into England. If the fifty pipes sold for more than £1,200, the profits of this individual merchant would exceed the general rate of profits, and capital would naturally flow into this advantageous trade, till the fall of the price of wine had brought every thing to the former level.

It has indeed been contended, that the great profits which are sometimes made by particular merchants in foreign trade, will elevate the general rate of profits in the country, and that the abstraction of capital from other employments, to partake of the new and beneficial foreign commerce, will raise prices generally, and thereby increase profits. It has been said, by high authority, that less capital being necessarily devoted to the growth of corn, to the manufacture of cloth, hats, shoes, &c. while the demand continues the same, the price of these commodities will be so increased, that the farmer, hatter, clothier, and shoemaker, will have an increase of profits, as well as the foreign merchant.

They who hold this argument agree with me, that the profits of different employments have a tendency to conform to one another; to advance and recede together. Our variance consists in this: They contend, that the equality of profits will be brought about by the general rise of profits; and I am of opinion, that the profits of the favoured trade will speedily subside to the general level.

For, first, I deny that less capital will necessarily be devoted to the growth of corn, to the manufacture of cloth, hats, shoes, &c. unless the demand for these commodities be diminished; and if so, their price will not rise. In the purchase of foreign commodities, either the same, a larger, or a less portion of the produce of the land and labour of England will be employed. If the same portion be so employed, then will the same demand exist for cloth, shoes, corn, and hats, as before, and the same portion of capital will be devoted to their production. If, in consequence of the price of foreign commodities being cheaper, a less portion of the annual produce of the land and labour of England is employed in the purchase of foreign commodities, more will remain for the purchase of other things. If there be a greater demand for hats, shoes, corn, &c. than before, which there may be, the consumers of foreign commodities having an additional portion of their revenue disposable, the capital is also disposable with which the greater value of foreign commodities was before purchased; so that with the increased demand for corn, shoes, &c. there exists also the means of procuring an increased supply, and therefore neither prices nor profits can permanently rise. If more of the produce of the land and labour of England be employed in the purchase of foreign commodities, less can be employed in the purchase of other things, and therefore fewer hats,

shoes, &c. will be required. At the same time that capital is liberated from the production of shoes, hats, &c. more must be employed in manufacturing those commodities with which foreign commodities are purchased; and consequently in all cases the demand for foreign and home commodities together, as far as regards value, is limited by the revenue and capital of the country. If one increases, the other must diminish. If the quantity of wine, imported in exchange for the same quantity of English commodities, be doubled, the people of England can either consume double the quantity of wine that they did before, or the same quantity of wine and a greater quantity of English commodities. If my revenue had been £1,000, with which I purchased annually one pipe of wine for £100 and a certain quantity of English commodities for £900; when wine fell to £50 per pipe, I might lay out the £50 saved, either in the purchase of an additional pipe of wine, or in the purchase of more English commodities. If I bought more wine, and every wine-drinker did the same, the foreign trade would not be in the least disturbed; the same quantity of English commodities would be exported in exchange for wine, and we should receive double the quantity, though not double the value of wine. But if I, and others, contented ourselves with the same quantity of wine as before, fewer English commodities would be exported, and the wine-drinkers might either consume the commodities which were before exported, or any others for which they had an inclination. The capital required for their production would be supplied by the capital liberated from the foreign trade.

There are two ways in which capital may be accumulated: it may be saved either in consequence of increased revenue, or of diminished consumption. If my profits are raised from £1,000 to £1,200 while my expenditure continues the same, I accumulate annually £200 more than I did before. If I save £200 out of my expenditure, while my profits continue the same, the same effect will be produced; £200 per annum will be added to my capital. The merchant who imported wine after profits had been raised from 20 per cent to 40 per cent, instead of purchasing his English goods for £1,000 must purchase them for £857 2s. 10d., still selling the wine which he imports in return for those goods for £1,200; or, if he continued to purchase his English goods for £1,000 must raise the price of his wine to £1,400; he would thus obtain 40 instead of 20 per cent profit on his capital; but if, in consequence of the cheapness of all the commodities on which his revenue was expended, he and all other consumers could save the value of £200 out of every £1,000 they before expended, they would more effectually add to the real wealth of the country; in one case, the savings would be made in consequence of an increase of revenue, in the other, in consequence of diminished expenditure.

If, by the introduction of machinery, the generality of the commodities on which revenue was expended fell 20 per cent in value, I should be enabled to save as effectually as if my revenue had been raised 20 per cent; but in one case the rate of profits is stationary, in the other it is raised 20 per cent.—If, by the introduction of cheap foreign goods, I can save 20 per cent from my expenditure, the effect will be precisely the same as if machinery had lowered the expense of their production, but profits would not be raised.

It is not, therefore, in consequence of the extension of the market that the rate of profit is raised, although such extension may be equally efficacious in increasing the mass of commodities, and may thereby enable us to augment the funds destined for the maintenance of labour, and the materials on which labour may be employed. It is quite as important to the happiness of mankind, that our enjoyments should be increased by the better distribution of labour, by each country producing those commodities for which by its situation, its climate, and its other natural or artificial advantages, it is adapted, and by their exchanging them for the commodities of other countries, as that they should be augmented by a rise in the rate of profits.

It has been my endeavour to shew throughout this work, that the rate of profits can never be increased but by a fall in wages, and that there can be no permanent fall of wages but in consequence of a fall of the necessaries on which wages are expended. If, therefore, by the extension of foreign trade, or by improvements in machinery, the food and necessaries of the labourer can be brought to market at a reduced price, profits will rise. If, instead of growing our own corn, or manufacturing the clothing and other necessaries of the labourer, we discover a new market from which we can supply ourselves with these commodities at a cheaper price, wages will fall and profits rise; but if the commodities obtained at a cheaper rate, by the extension of foreign commerce, or by the improvement of machinery, be exclusively the commodities consumed by the rich, no alteration will take place in the rate of profits. The rate of wages would not be affected, although wine, velvets, silks, and other expensive commodities should fall 50 per cent, and consequently profits would continue unaltered.

Foreign trade, then, though highly beneficial to a country, as it increases the amount and variety of the objects on which revenue may be expended, and affords, by the abundance and cheapness of commodities, incentives to saving, and to the accumulation of capital, has no tendency to raise the profits of stock, unless the commodities imported be of that description on which the wages of labour are expended.

The remarks which have been made respecting foreign trade, apply equally to home trade. The rate of profits is never increased by a better distribution of labour, by the invention of machinery, by the establishment of roads and canals, or by any means of abridging labour either in the manufacture or in the conveyance of goods. These are causes which operate on price, and never fail to be highly beneficial to consumers; since they enable them with the same labour, or with the value of the produce of the same labour, to obtain in exchange a greater quantity of the commodity to which the improvement is applied; but they have no effect whatever on profit. On the other hand, every diminution in the wages of labour raises profits, but produces no effect on the price of commodities. One is advantageous to all classes, for all classes are consumers; the other is beneficial only to producers; they gain more, but every thing remains at its former price. In the first case they get the same as before; but every thing on which their gains are expended, is diminished in exchangeable value.

The same rule which regulates the relative value of commodities in one country, does not regulate the relative value of the commodities exchanged between two or more countries.

Under a system of perfectly free commerce, each country naturally devotes its capital and labour to such employments as are most beneficial to each. This pursuit of individual advantage is admirably connected with the universal good of the whole. By stimulating industry, by rewarding ingenuity, and by using most efficaciously the peculiar powers bestowed by nature, it distributes labour most effectively and most economically; while, by increasing the general mass of productions, it diffuses general benefit, and binds together by one common tie of interest and intercourse, the universal society of nations throughout the civilized world. It is this principle which determines that wine shall be made in France and Portugal, that corn shall be grown in America and Poland, and that hardware and other goods shall be manufactured in England.

In one and the same country, profits are, generally speaking, always on the same level; or differ only as the employment of capital may be more or less secure and agreeable. It is not so between different countries. If the profits of capital employed in Yorkshire, should exceed those of capital employed in London, capital would speedily move from London to Yorkshire, and an equality of profits would be effected; but if in consequence of the diminished rate of production in the lands of England, from the increase of capital and population, wages



should rise, and profits fall, it would not follow that capital and population would necessarily move from England to Holland, or Spain, or Russia, where profits might be higher.

If Portugal had no commercial connexion with other countries, instead of employing a great part of her capital and industry in the production of wines, with which she purchases for her own use the cloth and hardware of other countries, she would be obliged to devote a part of that capital to the manufacture of those commodities, which she would thus obtain probably inferior in quality as well as quantity.

The quantity of wine which she shall give in exchange for the cloth of England, is not determined by the respective quantities of labour devoted to the production of each, as it would be, if both commodities were manufactured in England, or both in Portugal.

England may be so circumstanced, that to produce the cloth may require the labour of 100 men for one year; and if she attempted to make the wine, it might require the labour of 120 men for the same time. England would therefore find it her interest to import wine, and to purchase it by the exportation of cloth.

To produce the wine in Portugal, might require only the labour of 80 men for one year, and to produce the cloth in the same country, might require the labour of 90 men for the same time. It would therefore be advantageous for her to export wine in exchange for cloth. This exchange might even take place, notwithstanding that the commodity imported by Portugal could be produced there with less labour than in England. Though she could make the cloth with the labour of 90 men, she would import it from a country where it required the labour of 100 men to produce it, because it would be advantageous to her rather to employ her capital in the production of wine, for which she would obtain more cloth from England, than she could produce by diverting a portion of her capital from the cultivation of vines to the manufacture of cloth.

Thus England would give the produce of the labour of 100 men, for the produce of the labour of 80. Such an exchange could not take place between the individuals of the same country. The labour of 100 Englishmen cannot be given for that of 80 Englishmen, but the produce of the labour of 100 Englishmen may be given for the produce of the labour of 80 Portuguese, 60 Russians, or 120 East Indians. The difference in this respect, between a single country and many, is easily accounted for, by considering the difficulty with which capital moves from one country to another, to seek a more profitable employment, and the activity with which it invariably passes from one province to another in the same country.

It would undoubtedly be advantageous to the capitalists of England, and to the consumers in both countries, that under such circumstances, the wine and the cloth should both be made in Portugal, and therefore that the capital and labour of England employed in making cloth, should be removed to Portugal for that purpose. In that case, the relative value of these commodities would be regulated by the same principle, as if one were the produce of Yorkshire, and the other of London: and in every other case, if capital freely flowed towards those countries where it could be most profitably employed, there could be no difference in the rate of profit, and no other difference in the real or labour price of commodities, than the additional quantity of labour required to convey them to the various markets where they were to be sold.

Experience, however, shews, that the fancied or real insecurity of capital, when not under the immediate control of its owner, together with the natural disinclination which every man has to quit the country of his birth and connexions, and intrust himself with all his habits fixed, to a strange government and new laws, checks the emigration of capital. These feelings, which I should be sorry to see weakened, induce most men of property to be satisfied with a low rate of profits in their own country, rather than seek a more advantageous employment for their wealth in foreign nations.



Gold and silver having been chosen for the general medium of circulation, they are, by the competition of commerce, distributed in such proportions amongst the different countries of the world, as to accommodate themselves to the natural traffic which would take place if no such metals existed, and the trade between countries were purely a trade of barter.

Thus, cloth cannot be imported into Portugal, unless it sell there for more gold than it cost in the country from which it was imported; and wine cannot be imported into England, unless it will sell for more there than it cost in Portugal. If the trade were purely a trade of barter, it could only continue whilst England could make cloth so cheap as to obtain a greater quantity of wine with a given quantity of labour, by manufacturing cloth than by growing vines; and also whilst the industry of Portugal were attended by the reverse effects. Now suppose England to discover a process for making wine, so that it should become her interest rather to grow it than import it; she would naturally divert a portion of her capital from the foreign trade to the home trade; she would cease to manufacture cloth for exportation, and would grow wine for herself. The money price of these commodities would be regulated accordingly; wine would fall here while cloth continued at its former price, and in Portugal no alteration would take place in the price of either commodity. Cloth would continue for some time to be exported from this country, because its price would continue to be higher in Portugal than here; but money instead of wine would be given in exchange for it, till the accumulation of money here, and its diminution abroad, should so operate on the relative value of cloth in the two countries, that it would cease to be profitable to export it. If the improvement in making wine were of a very important description, it might become profitable for the two countries to exchange employments; for England to make all the wine, and Portugal all the cloth consumed by them; but this could be effected only by a new distribution of the precious metals, which should raise the price of cloth in England, and lower it in Portugal. The relative price of wine would fall in England in consequence of the real advantage from the improvement of its manufacture; that is to say, its natural price would fall; the relative price of cloth would rise there from the accumulation of money.

Thus, suppose before the improvement in making wine in England, the price of wine here were £50 per pipe, and the price of a certain quantity of cloth were £45, whilst in Portugal the price of the same quantity of wine was £45, and that of the same quantity of cloth £50; wine would be exported from Portugal with a profit of £5 and cloth from England with a profit of the same amount.

Suppose that, after the improvement, wine falls to £45 in England, the cloth continuing at the same price. Every transaction in commerce is an independent transaction. Whilst a merchant can buy cloth in England for £45 and sell it with the usual profit in Portugal, he will continue to export it from England. His business is simply to purchase English cloth, and to pay for it by a bill of exchange, which he purchases with Portuguese money. It is to him of no importance what becomes of this money; he has discharged his debt by the remittance of the bill. His transaction is undoubtedly regulated by the terms on which he can obtain this bill, but they are known to him at the time; and the causes which may influence the market price of bills, or the rate of exchange, is no consideration of his.

If the markets be favourable for the exportation of wine from Portugal to England, the exporter of the wine will be a seller of a bill, which will be purchased either by the importer of the cloth, or by the person who sold him his bill; and thus without the necessity of money passing from either country, the exporters in each country will be paid for their goods. Without having any direct transaction with each other, the money paid in Portugal by the importer of cloth will be paid to the Portuguese exporter of wine; and in England by the negotiation of the same bill, the exporter of the cloth will be authorized to receive its value from the importer of wine.

But if the prices of wine were such that no wine could be exported to England, the importer of cloth would equally purchase a bill; but the price of that bill would be higher, from the knowledge which the seller of it would possess, that there was no counter bill in the market by which he could ultimately settle the transactions between the two countries; he might know that the gold or silver money which he received in exchange for his bill, must be actually exported to his correspondent in England, to enable him to pay the demand which he had authorized to be made upon him, and he might therefore charge in the price of his bill all the expenses to be incurred, together with his fair and usual profit.

If then this premium for a bill on England should be equal to the profit on importing cloth, the importation would of course cease; but if the premium on the bill were only 2 per cent, if to be enabled to pay a debt in England of £100, £102 should be paid in Portugal, whilst cloth which cost £45 would sell for £50, cloth would be imported, bills would be bought, and money would be exported, till the diminution of money in Portugal, and its accumulation in England, had produced such a state of prices as would make it no longer profitable to continue these transactions.

But the diminution of money in one country, and its increase in another, do not operate on the price of one commodity only, but on the prices of all, and therefore the price of wine and cloth will be both raised in England, and both lowered in Portugal. The price of cloth, from being £45 in one country and £50 in the other, would probably fall to £49 or £48 in Portugal, and rise to £46 or £47 in England, and not afford a sufficient profit after paying a premium for a bill to induce any merchant to import that commodity.

It is thus that the money of each country is apportioned to it in such quantities only as may be necessary to regulate a profitable trade of barter. England exported cloth in exchange for wine, because, by so doing her industry was rendered more productive to her; she had more cloth and wine than if she had manufactured both for herself; and Portugal imported cloth and exported wine, because the industry of Portugal could be more beneficially employed for both countries in producing wine. Let there be more difficulty in England in producing cloth, or in Portugal in producing wine, or let there be more facility in England in producing wine, or in Portugal in producing cloth, and the trade must immediately cease.

No change whatever takes place in the circumstances of Portugal; but England finds that she can employ her labour more productively in the manufacture of wine, and instantly the trade of barter between the two countries changes. Not only is the exportation of wine from Portugal stopped, but a new distribution of the precious metals takes place, and her importation of cloth is also prevented.

Both countries would probably find it their interest to make their own wine and their own cloth; but this singular result would take place: in England, though wine would be cheaper, cloth would be elevated in price, more would be paid for it by the consumer; while in Portugal the consumers, both of cloth and of wine, would be able to purchase those commodities cheaper. In the country where the improvement was made, prices would be enhanced; in that where no change had taken place, but where they had been deprived of a profitable branch of foreign trade, prices would fall.

This, however, is only a seeming advantage to Portugal, for the quantity of cloth and wine together produced in that country would be diminished, while the quantity produced in England would be increased. Money would in some degree have changed its value in the two countries, it would be lowered in England and raised in Portugal. Estimated in money, the whole revenue of Portugal would be diminished; estimated in the same medium, the whole revenue of England would be increased.

Thus then it appears, that the improvement of a manufacture in any country tends to alter the distribution of the precious metals amongst the nations of the world: it tends to increase the quantity of commodities, at the same time that it raises general prices in the country where the improvement takes place.

To simplify the question, I have been supposing the trade between two countries to be confined to two commodities—to wine and cloth; but it is well known that many and various articles enter into the list of exports and imports. By the abstraction of money from one country, and the accumulation of it in another, all commodities are affected in price, and consequently encouragement is given to the exportation of many more commodities besides money, which will therefore prevent so great an effect from taking place on the value of money in the two countries as might otherwise be expected.

Besides the improvements in arts and machinery, there are various other causes which are constantly operating on the natural course of trade, and which interfere with the equilibrium, and the relative value of money. Bounties on exportation or importation, new taxes on commodities, sometimes by their direct, and at other times, by their indirect operation, disturb the natural trade of barter, and produce a consequent necessity of importing or exporting money, in order that prices may be accommodated to the natural course of commerce; and this effect is produced not only in the country where the disturbing cause takes place, but, in a greater or less degree, in every country of the commercial world.

This will in some measure account for the different value of money in different countries; it will explain to us why the prices of home commodities, and those of great bulk, though of comparatively small value, are, independently of other causes, higher in those countries where manufactures flourish. Of two countries having precisely the same population, and the same quantity of land of equal fertility in cultivation, with the same knowledge too of agriculture, the prices of raw produce will be highest in that where the greater skill, and the better machinery is used in the manufacture of exportable commodities. The rate of profits will probably differ but little; for wages, or the real reward of the labourer, may be the same in both; but those wages, as well as raw produce, will be rated higher in money in that country, into which, from the advantages attending their skill and machinery, an abundance of money is imported in exchange for their goods.

Of these two countries, if one had the advantage in the manufacture of goods of one quality, and the other in the manufacture of goods of another quality, there would be no decided influx of the precious metals into either; but if the advantage very heavily preponderated in favour of either, that effect would be inevitable.

In the former part of this work, we have assumed, for the purpose of argument, that money always continued of the same value; we are now endeavouring to shew that besides the ordinary variations in the value of money, and those which are common to the whole commercial world, there are also partial variations to which money is subject in particular countries; and in fact, that the value of money is never the same in any two countries, depending as it does on relative taxation, on manufacturing skill, on the advantages of climate, natural productions, and many other causes.

Although, however, money is subject to such perpetual variations, and consequently the prices of the commodities which are common to most countries, are also subject to considerable difference, yet no effect will be produced on the rate of profits, either from the influx or efflux of money. Capital will not be increased, because the circulating medium is augmented. If the rent paid by the farmer to his landlord, and the wages to his labourers, be 20 per cent higher in one country than another, and if at the same time the nominal value of the farmer's

capital be 20 per cent more, he will receive precisely the same rate of profits, although he should sell his raw produce 20 per cent higher.

Profits, it cannot be too often repeated, depend on wages; not on nominal, but real wages; not on the number of pounds that may be annually paid to the labourer, but on the number of days' work, necessary to obtain those pounds. Wages may therefore be precisely the same in two countries; they may bear too the same proportion to rent, and to the whole produce obtained from the land, although in one of those countries the labourer should receive ten shillings per week, and in the other twelve.

In the early states of society, when manufactures have made little progress, and the produce of all countries is nearly similar, consisting of the bulky and most useful commodities, the value of money in different countries will be chiefly regulated by their distance from the mines which supply the precious metals; but as the arts and improvements of society advance, and different nations excel in particular manufactures, although distance will still enter into the calculation, the value of the precious metals will be chiefly regulated by the superiority of those manufactures.

Suppose all nations to produce corn, cattle, and coarse clothing only, and that it was by the exportation of such commodities that gold could be obtained from the countries which produced them, or from those who held them in subjection; gold would naturally be of greater exchangeable value in Poland than in England, on account of the greater expense of sending such a bulky commodity as corn the more distant voyage, and also the greater expense attending the conveying of gold to Poland.

This difference in the value of gold, or which is the same thing, this difference in the price of corn in the two countries, would exist, although the facilities of producing corn in England should far exceed those of Poland, from the greater fertility of the land, and the superiority in the skill and implements of the labourer.

If however Poland should be the first to improve her manufactures, if she should succeed in making a commodity which was generally desirable, including great value in little bulk, or if she should be exclusively blessed with some natural production, generally desirable, and not possessed by other countries, she would obtain an additional quantity of gold in exchange for this commodity, which would operate on the price of her corn, cattle, and coarse clothing. The disadvantage of distance would probably be more than compensated by the advantage of having an exportable commodity of great value, and money would be permanently of lower value in Poland than in England. If, on the contrary, the advantage of skill and machinery were possessed by England, another reason would be added to that which before existed, why gold should be less valuable in England than in Poland, and why corn, cattle, and clothing, should be at a higher price in the former country.

These I believe to be the only two causes which regulate the comparative value of money in the different countries of the world; for although taxation occasions a disturbance of the equilibrium of money, it does so by depriving the country in which it is imposed of some of the advantages attending skill, industry, and climate.

It has been my endeavour carefully to distinguish between a low value of money, and a high value of corn, or any other commodity with which money may be compared. These have been generally considered as meaning the same thing; but it is evident, that when corn rises from five to ten shillings a bushel, it may be owing either to a fall in the value of money, or to a rise in the value of corn. Thus we have seen, that from the necessity of having recourse successively to land of a worse and worse quality, in order to feed an increasing population, corn must rise in relative value to other things. If therefore money continue permanently of the same value, corn will exchange for more of such money, that is to say, it will rise in price.

The same rise in the price of corn will be produced by such improvement of machinery in manufactures, as shall enable us to manufacture commodities with peculiar advantages: for the influx of money will be the consequence; it will fall in value, and therefore exchange for less corn. But the effects resulting from a high price of corn when produced by the rise in the value of corn, and when caused by a fall in the value of money, are totally different. In both cases the money price of wages will rise, but if it be in consequence of the fall in the value of money, not only wages and corn, but all other commodities will rise. If the manufacturer has more to pay for wages, he will receive more for his manufactured goods, and the rate of profits will remain unaffected. But when the rise in the price of corn is the effect of the difficulty of production, profits will fall; for the manufacturer will be obliged to pay more wages, and will not be enabled to remunerate himself by raising the price of his manufactured commodity.

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