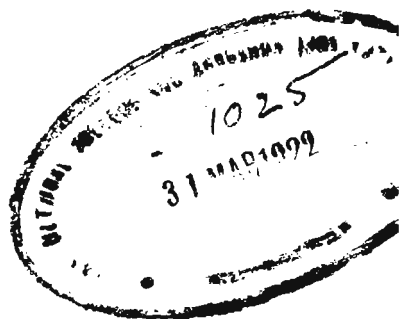


AGRICULTURAL ORGANISATION

ITS RISE, PRINCIPLES AND PRACTICE
ABROAD AND AT HOME

BY
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"THE ORGANISATION OF AGRICULTURE," "THE TRANSITION IN AGRICULTURE,"
"A HISTORY OF INLAND TRANSPORT AND COMMUNICATION," ETC.



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AGRICULTURAL ORGANISATION

To

MR. ROBERT A. YERBURGH, M.P.,

One of the earliest supporters of Lord Winchilsea's British Produce Supply Association; formerly President of the National Agricultural Union, and President from its inauguration, in 1901, of the Agricultural Organisation Society; who, through his foresight and his appreciation of the real wants of Agriculture, was mainly instrumental in effecting the transition in this country of Agricultural Organisation from *combination*, based more or less on political action, into *co-operation*, established primarily on principles of self-help and mutual help; who thus became the Father of Agricultural Co-operation on organised lines in Great Britain, and to whose strenuous efforts in helping to ensure the successful operation of the Agricultural Organisation Society is materially due the recent evolution thereof from a voluntary body, of limited means and opportunities, into a State-recognised Organisation, aiming at the accomplishment of a National Work on National Lines, the present brief record of the rise of Agricultural Organisation and its development, progress and aspirations in Great Britain is respectfully dedicated by

THE AUTHOR.

PREFATORY NOTE

UNDER the terms and conditions of a grant from the Development Fund, the Agricultural Organisation Society is to undergo a transition from a voluntary into a State-recognised and State-aided body, whose function it will be to conduct along National lines a National work of great magnitude, complexity and importance ; though the fact should be clearly understood that the State aid here in question is not in the least degree inconsistent with the development of the self-help principle, inasmuch as it will be given to a propagandist association which has for its mission the organisation of agricultural co-operative associations established for business purposes in accordance with self-help principles, and not themselves entitled to receive a State subsidy inasmuch as they are associations trading for a profit.

This reconstitution of the Agricultural Organisation Society under the conditions indicated may be regarded as a fitting occasion for passing under review the main objects and leading principles of Agricultural Organisation in general, the economic causes that originally led to its adoption, the extent to which it has been resorted to in other countries, and the developments in Great Britain that have preceded the new departure now being taken under the auspices of the State.

This story it is the purpose of the pages that follow to tell. The present volume is based mainly on a " Memorandum on Agricultural Organisation " drawn up by the writer and presented by the President, Mr. Yerburgh, and the

Secretary, Mr. J. Nugent Harris, to the new Board of Governors of the reconstituted Agricultural Organisation Society on the occasion of their first meeting, on October 9th, 1912, after the reconstitution ; but various matters of detail which would not interest the general reader, together with references to certain new schemes or proposals still to be matured, have been omitted, while a new chapter on " The Movement in Ireland," and, also, one giving " Summary and Conclusions," have been added.

My own interest in the problems thus dealt with dates back to the year 1892, when, on the occasion of the National Agricultural Conference referred to on pp. 89—92 (a gathering which could only suggest for the resuscitation of depressed agriculture such remedies as Protection, Bimetallism, reduced taxation, changes in the land laws and the formation of a Parliamentary Agricultural Party) I contributed to *The Times* of December 6th and 7th, 1892, two articles on " Australasian Produce in English Markets," in which I gave details as to what was then being done by Australia and New Zealand in the way of organising their agricultural industries on such lines as would allow of greatly increased food supplies being sent here under the best and most remunerative conditions. On December 26th, 1895, I contributed to the same paper an article on " Colonial Governments and Colonial Trade," giving the later developments in respect to agriculture in New South Wales, Victoria, South Australia, Queensland, Tasmania, and New Zealand, with an account, also, of what was being done in Canada. Inspired by the announcement that Mr. Chamberlain, then Secretary for the Colonies, had addressed a letter to the Colonial Premiers asking for information on the matters here in question, this article anticipated by about eighteen months the Blue Book subsequently published on the subject.

In this same year (1895) it was my privilege to be in touch

alike with Lord Winchilsea and the Great Eastern Railway Company in regard to the conferences between them alluded to on pp. 93—4, and the publication in *The Times* of various articles thereon, which I was enabled to contribute to that journal, had the effect of bringing the whole subject of "The Railways and Agriculture" under public attention. Of the conferences between both the South Eastern (pp. 141—2) and the Great Western (pp. 142—3) Railway Companies and the agriculturists in their respective districts I can speak from personal knowledge, since I was permitted to be present thereat on each occasion. Lord Winchilsea further enabled me to be the means of communicating to the world the steps taken by him in connection with the British Produce Supply Association (see pp. 95—9) in the earliest phases of its unfortunate career.

A series of articles on "The Organisation of Agriculture," published in *The Times* at Easter, 1904, became the basis of the book which Mr. Murray brought out for me under the same title and in the same year. This book, of which three editions were issued and 10,000 copies sold, gave details as to the policy adopted in regard to agricultural organisation in over twenty different countries, and it more especially pointed to the fact that in most of these countries the movement had been started on such simple lines as combination for purchase of agricultural necessities or for credit, those more complicated forms of combination in respect to transport and sale which it had been sought to establish at the outset in Great Britain having elsewhere been regarded as the final achievement, rather than as the beginning, of an agricultural organisation which could, also, be expected in the United Kingdom only through the establishment and successful operation of a specially qualified propagandist agency. My later works on the general subject have been "The Transition in Agriculture" (1906), "Small Holders: What they must do to succeed" (1909), and

PREFATORY NOTE

Traders, Farmers and Agricultural Organisation: An Inquiry into an Alleged Conflict of Interests" (1912).

It may be thus considered that I am not entirely devoid of qualifications for the task here attempted, while the foregoing record of facts may help the British public to realise, from the historical standpoint, the length of time it has taken for what should have been regarded from the outset as a National movement to be eventually established alike on a National and on a sound economic basis.

To Mr. J. Nugent Harris, Secretary of the Agricultural Organisation Society, and to the leading members of his Staff I have to express my cordial acknowledgments for assistance rendered to me in collating the details given as to the various phases of the work done by that most active of bodies.

EDWIN A. PRATT.

October, 1912.

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'AGRICULTURAL ORGANISATION

CHAPTER I.

RISE AND DEVELOPMENT.

THE extent to which agricultural organisation, in some or other of its manifold phases, has been adopted in recent years in almost every civilised country on the face of the globe constitutes one of the most remarkable of economical developments, and one that has, besides, had considerable bearing on general social conditions.

Of the greatest and most direct interest to those actually engaged in agriculture, the subject is also one that must appeal strongly to all who are in any way interested in the progress of nations ; and the story of how so remarkable a movement was brought about, and of the results to which it has already led, should appeal no less to the average citizen than to the working farmer. It should, further, lead to the conviction that, when so many countries throughout the world which look to the United Kingdom as the best market for their surplus produce are both increasing the volume thereof and strengthening their economic position, it is a matter of special importance that British producers should enquire what are the special advantages which (apart from climatic or other conditions not capable of reproduction here) their foreign competitors have secured for themselves from effective organisation, and to what extent the example set by the foreigner should be followed by the British farmer, alike in the defence and for the promotion of his own interests.

Conditions naturally vary in all the countries concerned,

and no system of agricultural organisation adopted in any one of them might be suitable for exact reproduction in any other country; but there are main principles which are, nevertheless, capable of general application. These general principles are invariably determined by what have been called "the urgent exigencies of economic life"; and in few, if any, countries are such exigencies more urgent, from an agricultural point of view, than in a land like our own where there is so great an industrial population to be fed, and where, at the same time, so active a competition has had to be faced by home agriculture in providing the needed supplies.

To the economist the subject here under consideration must be a matter of particular interest, since agricultural organisation is effecting material changes in the circumstances of many different countries; the politician will see the growth in those countries of an Agricultural Party which, in carrying on a new "Peasants' War"—not against rulers, but against economic conditions—represents a steadily-increasing force to be reckoned with by the makers of laws; and the psychologist will observe how a section of the community hitherto distinguished in almost every land for inveterate suspicion and distrust of neighbours has itself mainly taken the initiative in a movement essentially democratic in its origin—whatever the degree to which State-aid has subsequently been rendered—and directly designed to lead the agricultural classes to abandon their said suspicion and distrust and operate on the lines of common action for the securing of common advantages, the social and individual results brought about having thus been no less remarkable even than the economic.

AGRICULTURAL COMBINATION IN THE PAST.

In the principle of combination for the purpose of fostering the interests either of agriculture as a science or of agriculturists as a class there is, of course, nothing new. Just as the cultivation of the soil is the oldest of callings, so do we find in the agricultural industry some of

the earliest developments of that Spirit of Association which, in this age of societies, leagues, unions and federations of every class and description, may be considered one of the characteristics of present-day Society.

- In France, for instance, agricultural combinations began in the time of the Romans and were continued through the mediæval ages, leading up to the present widespread form of legal association regulated by special statute. These early combinations were brought about mainly by landowners who joined together, at different periods, for the collective cultivation of their properties, for mutual defence against drought or inundation, for the drainage of bogs or swamps, for the organisation of mutual insurance, or for the furthering of their general interests by the holding of shows, the study of agricultural questions, and so on.

In Portugal the institution known as the *Misericórdia*, which, among other beneficent purposes—and on the basis of fixed subscriptions—granted loans to farmers at a certain interest, dates back to 1498; but it was the *Celleiros*, of which the first was founded in 1576, that—operated as benevolent institutions—more especially sought to afford help to small cultivators by advancing them seed at a fixed rate of interest, to be repaid in kind by the end of the year.

In Austria associations of agriculturists, consisting mostly of large landowners, began to be formed in the second half of the eighteenth century with the object of contributing to the progress of agriculture by means of research, instruction, conferences, shows and the influencing of legislation.

In the United Kingdom the Royal Dublin Society dates from 1731, the Highland and Agricultural Society of Scotland from 1784, the Smithfield Club from 1798, and the Royal Agricultural Society of England from 1838; and these organisations have, in turn, been supplemented by many county or local agricultural societies, live-stock societies and other bodies for the promotion or the protection of farmers' interests in general.

No one would deny that very useful work has been done by these older types of organisation ; yet their limitations are no less obvious. The organisations here in question have sought to promote the welfare of agriculture rather than to meet the needs of individual agriculturists. They have told, or shown, the farmer what to produce ; but they have mostly left him to his own resources both in raising the ways and means by which he can act on their guidance and in disposing of his supplies to advantage, when he has got them ready for the market. They have helped him greatly in the *science* of agriculture, but very little in the *business* of agriculture.

Hence there arose the need that the older type of societies, while left to continue their own valuable work, should be supplemented by a newer type which would (1) popularise the agricultural science the older societies were promoting ; (2) open out to the producer greater opportunities for raising his supplies to advantage ; and (3) organise his business for him on such lines that he would be assured a better return therefrom than if he were left to his own individual resources.

Thus between the old movement and the new movement there should be no fear of friction. To a certain extent the former has prepared the way for the latter ; but the one is, even to-day, quite as necessary as the other, and the two should be able to work together in perfect harmony.

To the bringing about of this newer movement, based, not alone on sound economic, but also on co-operative, principles, many different causes have contributed ; and for a clear understanding of the whole position it is necessary that these should be taken into consideration.

AGRICULTURAL CREDIT.

The beginnings of the agricultural organisation movement of to-day are to be found in the initiation, in Germany, of a system of agricultural credit in the special interest of small producers.

In some quarters there is a tendency to discourage the idea of cultivators "running into debt," as it is said, for the carrying on of their enterprises ; yet farming is to be regarded, not only as a business, but as a business in which a facility to obtain capital readily, on reasonable terms, may be still more necessary than it is in the majority of other businesses.

Whereas the ordinary trader, operating with borrowed money, may expect to start almost at once with a turnover, the cultivator must prepare his fields, sow his seed, await the processes of Nature in the growing and the ripening of his crops, gather in the eventual harvest, and then dispose of it on the market, before he can hope to secure any return on his investment and his toil ; and he must have the means to defray cost of seed, labour and machinery, to cover rent, rates and taxes, and to support himself and his family during the time when the money is all going out and none is coming in.

On the other hand, the small cultivator has always been in a position of special disadvantage, as compared with large farmers or traders in general, in obtaining the often indispensable loans, owing to his inability to offer what the ordinary banker would regard as adequate security ; and, in the result, he has been in all ages and in all lands the prey of the money-lender, who has too often practised upon him the most shameless usury, even if he should not have reduced him to a position not far removed from that of actual servitude. The money-lender may have pleaded that he ran greater risk in lending to the small farmer than in lending to the trader since the one had little that could be seized in default of payment while the other had, at least, his stock of goods ; but none the less may the cultivator have been virtually the slave of the usurer. In a report on Roumania, published in Bulletin No. 2 of the Bureau of Economic and Social Intelligence, International Institute of Agriculture, one may read on this subject :—

It may be objected that credit is still hard to get ; that 10 per cent. interest is too high ; that here and there are small mis-

appropriations ; that small abuses occur still ; and that the exploitation of the peasant has not yet disappeared everywhere. But, in spite of all this, we have left far behind the days when a peasant could not borrow money unless he paid two or three francs a month for every twenty francs ; when usurers swarmed in and out of villages, and speculated mercilessly on dire need and misery ; when neither the law nor the administration could protect the worker from this slavery, or mitigate his frightful poverty, or prevent the abuses of speculation on labour which led to the revolution of 1907.

India is an exceptional country in matters of finance, since a rate of interest amounting to $12\frac{1}{2}$ per cent. is there regarded as reasonable even by the credit societies, and anything below 9 per cent. is looked upon as a mistake ; but even these rates are modest compared with the 24, 36, 60 and even 75 per cent. charged in different provinces by village money-lenders.

It was the inauguration of the Raiffeisen system of rural credit in Germany, where, in the middle of the nineteenth century, the money-lender had become all-powerful in the poorer agricultural districts, that showed the way out of the difficulty by which the small cultivator was faced. His lack of visible security was met by the formation of village or local societies whose members became jointly and severally responsible for the repayment of loans which they themselves granted to men whom, from personal knowledge, they regarded as worthy of confidence, while the loans were to be applied to specified purposes of an exclusively reproductive character.

Starting in this very small way, the Raiffeisen system underwent various developments, eventually gave rise to the creation of a net-work of societies, federations and state or provincial agricultural credit banks, spread into many different lands, and forms to-day the basis on which has been built up much of the systematic organisation of agriculture that has become so active a force throughout the world in general.

SCIENTIFIC PRODUCTION.

The need alike for agricultural credit and for agricultural organisation became greater by reason of the changes in

the methods of production due to the teachings of Liebig and others, following on the discoveries made by them in what they showed to be the *science*, and not simply the *practice*, of agriculture.

Owing to the more intensive forms of cultivation which thus came into vogue, there was brought about, on the one hand, a greatly increased demand for artificial manures and other requisites, and, on the other hand, the creation of an army of manufacturers, agents and middlemen who, in seeking to supply this demand, regarded agriculture from a purely business point of view, and were apt to look upon the farmer as someone whom, in the new conditions of production by which he was faced, they could exploit to their own advantage.

The advance in agricultural science thus meant for the farmer that not only must he have the capital with which to purchase the requisites in question—so that here there came still further reasons for agricultural credit—but there was the further material danger that if the manufacturers of these requisites were none too honest and reasonable, and if the middlemen dealers passing them on to him were alike ignorant and unscrupulous, then, left to his own resources, he might have to pay an excessive price for raw materials of inferior quality, and also eventually gain an inadequate return from his crops.

These results were, in fact, experienced in Germany almost as soon as the system of scientific production came into vogue; and the earliest measures adopted to check them took the form of "control," or "test" stations set up by certain non-trading agricultural associations for the purpose of analysing or otherwise testing the commodities in question. This arrangement answered when the buyer himself sent in the wares he had purchased, but was regarded with suspicion if the middleman claimed to have had the tests made before the sale.

When, therefore, the Raiffeisen banks began to spread in Germany, the further expedient was resorted to by them of arranging for the purchase of agricultural necessities by or

on behalf of the associated farmers through the instrumentality of the rural or agricultural bank, which was thus not only to provide the cultivator with credit, and so keep him out of the hands of the usurer, but also to enable him to lay out his money to the best advantage.

These arrangements, applied in the first instance mainly to fertilisers, were afterwards extended to the improved machinery and the concentrated feeding stuffs which agricultural science had likewise introduced in the interest of better production.

CO-OPERATIVE PURCHASE.

Meanwhile the great increase in the demand for all these things had led the industrial and commercial interests concerned in their supply to form "trusts," "rings," or "syndicates," with a view both to controlling the output and to keeping up the prices. So there came still further need for the farmers to combine in self-defence.

Special societies for joint purchase now began to be formed, as distinct from what the rural banks had been doing, and in course of time the new societies joined together in federations which were in a better position to deal direct with manufacturers and to obtain lower terms for their affiliated societies by purchasing large quantities, and by saving intermediate profits, while they could also arrange for trustworthy analyses, and thus obtain a guarantee of quality.

All these things helped even the small producer both to face the changes that science had introduced into production and to put his business of agriculture on a better business footing.

FOREIGN WHEAT.

The forcing on the producer of these various measures became still more pronounced under the conditions leading to the agricultural crisis which began to affect Europe in general when the newer countries were able to send, at low

charges for ocean transport, enormous supplies of wheat to be sold here at prices with which the European grower could not compete.

STEAM—TELEGRAPHY—REFRIGERATION.

By the application of steam to the propulsion of ocean-going vessels a complete transformation was brought about in our trading relations with distant countries, as compared with the days when dependence had to be placed on sailing ships.

By the invention of the telegraph and the laying of ocean cables there came a no less revolutionary change in the facilities of communication, with a consequent further great expansion in our foreign and commercial trade, and especially so when other lands, developing their own agricultural resources, began to have increasingly large surplus stocks for which they sought an outlet here.

Still another change in the situation was effected through the use of refrigeration processes in the transport of perishable products from over-sea countries.

As the outcome of this further application of science to agricultural conditions, these perishable products, sent from Australia, New Zealand, and Argentina, can be put on our markets in perfectly sound condition, notwithstanding the great length of the journey ; while under existing contracts frozen meat is brought from Australia to London for nine-sixteenths of a penny per pound, fresh fruit for seven-eighths of a penny per pound, and butter for one half-penny per pound.

Thus refrigeration has annihilated distance, while the cost of ocean transport has, from a marketing point of view, become a negligible quantity. Producers in those far-off lands are, for all practical purposes, and with various advantages of their own, as much competitors of British agriculturists as if their countries immediately adjoined our own shores.

THE TRANSITION IN AGRICULTURE.

All these conditions, and others besides, led to an increased need here, not only for greater efficiency, but also for a greater variety, in agricultural production. It became necessary that European growers who could no longer compete, more especially, with foreign wheat should turn their attention to other products instead, and such necessity led to a period of transition in which alternatives to wheat-growing were widely adopted, among those alternatives being stock-breeding, the raising of market-garden produce, fruit culture, and the sale of milk, butter, cheese, eggs and poultry.

URBAN LIFE.

Such transition was, in turn, greatly fostered by the altered conditions of urban life.

The transformation in the industrial position owing to the invention of new processes of manufacture, the setting up of the factory system, and the migration of population from the rural districts to the towns had both discouraged the practice of the older forms of agriculture at home and opened out still greater possibilities to the wheat-growers abroad; but the same transformation had also led to the grouping together of collections of humanity which could, indeed, no longer grow their own food supplies on their own holdings, yet stood in need of commodities besides wheat or bread, and especially of vegetables, fruit, milk, butter, cheese, and bacon.

The furnishing of these other commodities offered scope for the enterprise and energy of cultivators unable to compete with the foreign wheat-grower, while the transition in agriculture thus brought about further meant an increase of opportunity for the working farmer and the small holder—especially under conditions of intensive cultivation—notwithstanding the increasing discouragement for the gentleman farmer whose broad acres had been devoted in the past to the production of corn crops.

These newer possibilities of the situation became greater

still in proportion as the industrial and middle classes regarded more and more in the light of necessities what their forefathers would have considered luxuries, even if they had, in their day, been able to obtain them at all; and, in the result, although foreign competition caused a shrinkage in the area devoted to wheat, the needs of urban populations led to an increased demand for other food supplies of a type that once more widened out the scope for agricultural organisation.

EXAMPLE OF DENMARK.

While these various conditions had been affecting Europe in general, Denmark was, more especially, stirred into action by the urgent need, following on the results of her conflict with Prussia, to improve her economic condition; and this she sought to do by organising her agricultural industries on such a basis that she could supply other countries, and more particularly Great Britain, with the butter, bacon and eggs that are now no less needed than wheat, flour and bread. Opportunity for agricultural expansion was thus opened out to Danish producers who, in the circumstances, could afford to disregard the competition of wheat from the American continent or elsewhere.

ORGANISATION FOR PRODUCTION.

Denmark, too, carried the general movement still further. Her peasant proprietors followed up organisation alike for credit and for collective purchase by organisation for production. Regarding agriculture as a business, they applied to it the same principle of a "factory" that Manchester cotton-spinners had already applied to their own industry, the main difference in such application being that the Danes worked together mainly on co-operative lines.

Once more we may find precedents for the course thus adopted. So far back as the fourteenth and fifteenth

centuries it was the practice of peasants in the Alpine valleys of Italy to bring together their supplies of milk and treat them in common, for the production of cheese, in the house of each associate in succession. Here one does, indeed, get the principle of combination; but, in actual practice, the setting up of a factory, for dealing with the milk or cream produced within a certain radius, was a much more advanced form of combination.

It was in the United States that the modern type of dairy factory originated. The first was organised in the State of New York in 1860, and by 1866 there were nearly 500 in operation. At the outset the factories made cheese only, but creameries, or butter factories, followed soon after, though these did not come into general vogue until 1880.

Two years later the Danish peasant proprietors set up their first butter factory on strictly co-operative lines; and since that time the expansion of this principle, both in Denmark and in other countries, has been great indeed, thanks to the progress alike of science and of the spirit of association.

Science assisted, if it did not really establish, the movement through the invention, by Lehfeld, in 1876, of the centrifugal cream separator, which allowed of a greater yield of cream and, consequently also, of butter, from the milk. Every farmer could not afford to have a separator of his own, and it was obviously better that, instead of each remaining independent of his neighbour, groups of them should co-operate to obtain the necessary appliances and appoint a skilled staff to make their butter for them in factories established for the purpose and under such conditions that the cost of production would be reduced to a minimum, while the supply of large quantities of butter of uniform quality would be assured.

In 1887 the Danes further set up their first co-operative bacon factory.

Combination for production to-day forms one of the most important phases of the agricultural organisation

movement. It has undergone varied and widespread development, and is to be found in one form or another in almost every country where organisation has taken root. Everywhere it is regarded as an important means of cheapening cost of production, and hence, also, of giving the associated farmers an initial advantage on the world's markets.

LIVE STOCK.

The application of the factory system here in question, and the resort thereto on so extensive a scale by dairy farmers, led to greatly increased importance being paid to the subject of cattle-breeding since it was, of course, most desirable in their own and the general interest that the associated farmers should show a preference for such cows as were likely to give the largest supplies of the richest quality of milk.

So co-operation went a step further in the formation of new types of agricultural associations which (1) sought to promote a scientific system of cattle-breeding, based on biological laws and the results of heredity; (2) established breeding syndicates; and (3) organised a "control" system to keep account of the milk-giving qualities of each cow and enable the farmer to know, from definite data, which animals gave the best results.

In other words, science was once more adopted in place of rule-of-thumb, while in thus taking advantage of science, both in principle and in practice, the humblest peasant was, thanks to co-operation, placed on a footing equal to that of the most influential of land-owners or the largest of farmers.

So much was this the case in Denmark that, although peasants initiated the agricultural co-operative societies, landowners and large farmers found it to their own advantage, in various ways, to join them.

In addition to the co-operative societies in respect to cattle, others were established to improve the breed of pigs,

horses, goats, and poultry. Bee-keepers' societies were likewise formed.

CO-OPERATION FOR SALE.

As a natural sequel to combination for production came co-operation for sale. Men who had joined together in order to produce to the best advantage might, also, well act together to sell to the best advantage.

There was, in the first place, the fact that good producers are not necessarily good business men—that they may be better employed in doing work on their farm or holding to which they are thoroughly suited than in looking after marketing details which, especially when a number of producers are already acting together, may much more suitably be left to some specially competent and trustworthy person selected for that purpose.

In the second place combination for sale meant, in the case of foreign producers, at least, that they could make up complete train loads of commodities from a particular district, and obtain the lowest rates for transport because the railway people had less trouble in handling large grouped consignments sent under what were, for them, the most favourable conditions in regard to loading, etc., than they would have had in dealing with a large number of growers each consigning his own particular lot independently of everyone else. Suffice it, in this connection, to speak of the butter and bacon trains in Denmark, the egg trains from Italy, and the fruit and vegetable trains from the South of France, all directed more or less to the English markets.

In the third place combination for sale offered to the wholesale and retail dealers a greater assurance of regular supplies of uniform quality; and in some instances these conditions gave to foreign produce a distinct advantage on our markets over English produce, of varied qualities, and consigned in irregular quantities by wholly independent growers or producers.

In some countries—and especially in Holland—combination for sale led to the setting up of co-operative auction

marts, where produce or live stock was disposed of under conditions which gave a better prospect of fair prices than when the individual farmer had been left to make the best terms he could with an individual dealer.

Whether with or without these co-operative auction marts, it was found that combination for sale gave better returns to associated farmers who had already, as we have seen, had the advantages resulting from combination for credit and production.

SUPPLEMENTARY COMBINATIONS.

Once successfully established on the broad lines already mentioned, the spirit of co-operation in agriculture spread out in many other directions besides.

Co-operative insurance of livestock, for instance, was very widely adopted. Agricultural accidents were also insured against co-operatively. In some countries insurance against storms or hail was resorted to, and in most of those where agricultural organisation has been established at all, the societies obtain for their grouped members better terms for fire insurance than could be got through an agent.

In Roumania there are agricultural credit banks which finance rural associations constituted for the special purpose of enabling peasants to lease land direct from the owners of large estates instead of through the middlemen who had previously exploited them.

Co-operative societies of viticulturists, also, are common to most wine-producing countries on the Continent.

MUTUAL HELP.

Nor have the social advantages been less marked than the economic.

A new spirit is taking possession of the agricultural mind wherever the organisation movement has been established. A new rural democracy, inspired by fresh hopes and aspirations, and with vistas of new possibilities opened

out, is coming into existence. Old traditions and ancient prejudices which had led each farmer or peasant to act for himself, to keep to himself, and to regard his neighbour with distrust are disappearing in favour of united action for common benefits.

Self-dependence may promote a feeling of independence ; but in the agricultural industry it has its disadvantages. Self-help is excellent so far as it leads a man to make the most of his opportunities ; it is less commendable when it leads him to think of self only. From the latter point of view mutual-help is preferable ; and it is this broader and still more praiseworthy principle that is at the root of agricultural organisation.

INFLUENCE ON THE INDIVIDUAL.

Co-operative credit, which is more especially based on the mutual-help principle, has conferred on the individual, not alone material advantages which he could not have secured for himself, but moral advantages that may be of still greater value to him as a man and a citizen.

The security on which a Raiffeisen rural credit society advances loans is the good character of the would-be borrower—his reputation for industry, honesty, sobriety, and trustworthiness in general. Without these qualities he stands no chance of getting a loan, since his associated neighbours controlling the society are not likely, under their obligation of unlimited liability, to run any risk in lending to persons in whom they have no confidence.

So to those who may be endangering their good character a direct incentive is offered to stop in time and mend their ways ; and the moral effect of such incentive on the individual, as the outcome of the organisation movement, is known to be great indeed.

OTHER ADVANTAGES.

Under the influence, again, of the new movement, men of diverse political and religious views, or of different social

standing, work together in the furtherance of agricultural co-operation as though they had but one common object in view.

The popularisation of agricultural science by means of pamphlets, bulletins, periodicals, lectures, courses of instruction, schools of farming, shows, experimental fields, and an active propaganda generally are not only bringing about a more or less complete transformation in agricultural production, and advancing the prosperity of those concerned, but are improving the type of the agricultural workers subjected to these beneficial conditions.

New or revived village industries, supplementing agricultural industries proper, give more openings to rural populations and offer them greater inducements to remain in the country, while the business meetings and the social gatherings of the societies, together with the reading rooms, libraries and village halls set up, invest country life with greater attractions which, again, should help to check the migration to the towns, and must in themselves be regarded as preferable to the introduction into country life of urban amusements likely only to increase the desire for urban life.

Thanks, in short, to agricultural organisation, progress to-day is spreading in the backward rural districts in most countries of the world ; and this progress means, not only an increase in material prosperity, but social, moral and intellectual development as well.

WOMEN AND RURAL LIFE.

In the work of social advance and the betterment of rural life women are taking, or are being invited to take, an important part.

Women's Institutes, supplementing the earlier Farmers' Institutes, have undergone great development in the United States and Canada, where they have become an active force in all matters appertaining to household and domestic science, to woman's work on the farm, and to the social conditions of the community in which they operate.

Addressing a general meeting of delegates of the Canadian Women's Institutes, Mr. James, Deputy-Minister of Agriculture for Canada, said :—

It is only a few years since we made the sensational discovery that a farmer had a wife and family. For the first time, I believe, since the beginning of civilisation, we have begun to occupy ourselves with a definite plan for farm women, from the point of view of science and education. I know of no movement that promises so well for the future and for the general well-being of the land as this. It is neither in the stables nor in the fields that we find the real centre of farm work ; it is within the four walls of the home.

Institutions of a kindred type have, as will be shown later, since been organised in Belgium, where they have attained to a considerable degree of success.

In France, itinerant schools have been set up with the object of affording instruction in various agricultural and domestic subjects to young women in the rural districts, with a view (1) to giving to those instructed a greater inducement to remain in the country ; and (2) to rendering them better qualified to take their part efficiently both in agricultural and in domestic life. The instruction given, either under the direction of departmental professors of agriculture or by skilled lady teachers, includes such subjects as dairy work, gardening, and care of animals, together with a wide range of household duties. Encouraged and subsidised by the French Ministry of Agriculture, the schools are also fostered by the agricultural co-operative societies, some of which have organised ladies' committees to help in the carrying on of the work.

INFLUENCE OF CLERGY.

Agricultural organisation has here been spoken of as being essentially of democratic origin, both the original founders and the prime movers in subsequent developments being mainly found among the class directly benefited.

In this respect the movement bears a strong resemblance to those great thrift, friendly and distributive co-operative societies which were no less created by the people for the

All the same, one cannot deny that in some countries the great advance of agricultural organisation has been materially due to the influence of the clergy, and in many countries to the sympathetic support, if not the direct action, of the States concerned.

The Roman Catholic clergy in Belgium, for instance, went into the matter of agricultural organisation with a thoroughness that in itself deserved success. The knowledge they acquired of the science of agriculture would have done credit to agricultural-college professors. They learned all about the use of fertilisers at a time when the peasantry regarded artificial manures with the greatest suspicion ; they enforced their arguments by cultivating experimental plots of their own ; they gave sacks of fertilisers to doubting farmers in order that the latter, in turn, should make experiments on their own account ; they acquired a knowledge of agricultural machinery, and in some instances, at least, were themselves able to put such machinery right for farmers when it broke down ; they spread an active propaganda in support of credit banks, societies for purchase, production and sale, federations, insurance societies, etc. ; and, eventually, with the support alike of the landed gentry and of the Belgian Government, they succeeded so well that to-day there is not a single district of Belgium without its federation of agricultural societies operating under clerical guidance.

In the Catholic districts of Holland the movement has likewise received much active encouragement from the clergy ; in Italy the establishment of a large proportion of the credit banks there has been due to the Catholic clergy ; in Austria the priests and the elementary school teachers give instruction or advice to the peasants in agricultural science and on the advantages of co-operation ; and in Hungary like action has been taken by the clergy, who find that one incidental result of their activities has been an increase of sobriety, since the Hungarian peasant now spends at the headquarters of his society the time he once spent in the public-house.

As against these examples of clerical influence might, of

course, be put those of countries like France and Denmark, where the prevailing forces in the spread of agricultural organisation have been essentially economic ; but one sees, nevertheless, how wide is the range of interests the movement embraces.

STATE ACTION.

While the attitude of Governments all the world over towards agricultural organisation has been essentially sympathetic—and naturally so, in view of the benefits it was certain to confer on the countries concerned—there has been much diversity in the particular courses of action taken.

In countries under Governments of a pronounced bureaucratic type, such as Austria and Hungary, the tendency has been in the direction of the State assuming control of practically the whole movement, not only ensuring the provision of ways and means but undertaking general direction and even small working details.

This policy may be a natural one in countries where the people have been taught to look for almost everything to their Government ; but State-aid carried to these extremes constitutes a “ spoon-feeding ” which one must regard as an undesirable substitute for either self-help or mutual-help.

Without going to the same lengths, and while still allowing full scope for independent effort and democratic action, the State in many other countries has rendered invaluable aid to the movement by means of laws giving the societies a legal *status* ; by affording them increased facilities in the scope of their operation ; by establishing State, provincial or other central banks to aid in the financing of village credit banks ; by affording practical encouragement to scientific research ; by organising systematic instruction in agricultural science ; by making loans or grants to supplement associated effort ; or by helping both to popularise the movement generally and to establish it on a still sounder

footing as one of the most important forces of the day from the point of view of national progress.

In the matter more especially of co-operative credit, the ideal conditions are that the State should avoid having direct dealings either with individual cultivators or with local societies, and should establish relations exclusively with central banks undertaking the work of financing lesser federations of bank which, in turn, pass on the State assistance to the local credit banks providing for the wants of their individual members. This system has been adopted in Germany as the outcome of over half a century's experience. It represents a happy combination of State-aid and co-operative effort which, while ensuring an application of the former under the best conditions, still leaves full scope for the activity of the latter, with less risk of the demoralisation that must needs result when the State itself undertakes duties or details which had much better be left to others.

CHAPTER II.

EXAMPLES FROM OTHER LANDS.

To give a full account of the progress made by the movement throughout the world would far exceed the limits of available space ; and this fact will be the more evident if it is mentioned that no fewer than fifty States have now given^m in their adhesion to the International Institute of Agriculture established at Rome in 1905, and that the historical and statistical data published by the Institute's Bureau of Economic and Social Intelligence—data, that is, relating mostly to developments of agricultural organisation in one form or another in these different countries—already fill no fewer than eighteen Bulletins, each consisting of about 250 pages.

All that can here be attempted is to offer, mainly from these Bulletins, a few details concerning certain typical countries with a view less of satisfying the statistician than of convincing the reader that, where so much activity is being shown in lands which are often competitors of our own, it is not for England to lag behind in the march of economic development.

GERMANY.

The great expansion of the agricultural organisation movement in Germany is well shown by the following table, which gives the total number of agricultural co-operative societies existing in the German Empire in the years stated :—

YEAR	LOAN AND SAVINGS BANKS.	CO-OPERATIVE SOCIETIES.			
		For collective purchase.	Dairy.	Others.	Total.
1890	1,729	537	639	101	3,806
1900	9,793	1,115	1,917	811	13,636
1910	15,526	2,265	3,364	2,836	24,081

The 15,000 banks are associated with and partly financed by 36 central banks, the total turnover of which in 1909 was £245,689,000. The figure further includes 4,399 co-operative credit societies, affiliated to the Raiffeisen Organisation. In the case of 4,154 of these societies supplying data, we get the following details for the year 1909:—Total membership, 432,000; total amount of business done, £60,059,000; savings deposits, £8,855,000; withdrawals, £6,290,000; loans granted during year, £4,544,000; percentage of loans up to £50, 77·25.

Organisations for collective purchase of agricultural requisites, following on the need of the German farmer to meet the combinations of manufacturers and dealers by counter-combinations, has gone even further than the figures in the above table would suggest, since two-thirds of the mutual co-operative credit societies and many of the co-operative dairy societies also purchase for their members. Then the necessity further to counteract the influence of powerful trusts and syndicates in Germany seeking to control the market in fertilisers, feeding stuffs, machinery, oil, coal and almost every other agricultural requisite led the local societies to join together into federations. At first the larger bodies thus formed purchased for the associated societies on commission; but, following on some changes in the law brought about in 1889, central purchase federations, having power to buy on their own account, and operating under commercial experts, began to be formed.

In 1895 there were in Germany 10 of these central co-operative purchase federations; by 1900 the number had increased to 20; by 1905 to 25; and by the end of 1909 to 27. The real increase, however, has been in the number, not of federations, but of "members," the latter consisting mainly of affiliated societies. Thus the membership of the federations, which stood at 1,181 in 1892, rose to 2,785 in 1895, to 7,659 in 1902 and to 10,348 in 1909. The total for 1909 included 4,014 rural banks which bought agricultural requisites for their members through the central purchase federations in the same way as the co-operative societies

for collective purchase, the co-operative dairies and the other local bodies were doing. There are also 4,399 rural banks of the independent Raiffeisen Organisation which arrange purchases through the Central Agricultural Loan Bank. We thus get a total of 8,413 rural banks—in addition to the other organisations—affiliated to central societies for the purchase of goods, this total representing more than half of the 15,000 rural banks in Germany. At the end of 1909 only 12 per cent. of the co-operative societies for purchase remained unconnected with the central purchase federations.

Included in the 10,348 members of the twenty-seven central federations are 3,787 "individual" members. These, it is explained, are mostly large farmers resident in districts where there are, as yet, no societies, or where, for some reason or other, societies cannot be formed.

The central federations act in concert with one another in making their purchases from producers or importers, and in this way they can not only give orders for exceptionally large quantities, but they have a better opportunity for overcoming the influence of traders' syndicates and combinations, and for obtaining concessions from which the smaller societies and their members directly gain. The federation of federations has, in turn, gone so far that there is an Imperial Federation of German Agricultural Co-operative Societies which at the end of 1910 included :—

Central co-operative societies	..	..	80
Co-operative agricultural credit banks	..	..	12,978
" sale and purchase societies	..	..	2,194
" dairies	..	..	2,050
Other co-operative societies	..	..	1,811
Total			19,113

This was an increase of 480 societies over the number for the previous year.

In 1909 the purchases made by the central societies connected with the Imperial Federation, which includes 80 per cent. of the agricultural co-operative societies in the German Empire, amounted to £7,397,000. Adding to this figure the sum of £2,415,000 expended for the Raiffeisen

Organisation banks by the Central Agricultural Loan Bank, we get a total of £9,812,000 as the value of the goods bought in a single year by the associated farmers of Germany on the principle of combination for purchase.

Detailed figures in regard to other societies affiliated to the Imperial Federation in 1909 include the following :—

NATURE OF SOCIETY.	NUMBER OF SOCIETIES.	NUMBER OF MEMBERS.
Sale of corn	49	12,613
Milling	12	1,048
Distilling	147	3,218
Starch factories	18	1,056
Fruit or fruit and vegetables	52	5,345
Sale of potatoes	21	1,308
„ eggs	79	9,484
„ poultry	18	1,159
„ vineyard produce	119	5,962
„ animals	84	22,612
Animal breeding	49	3,565
Insurance of live stock	5	—
Supply of electricity	92	—
Co-operative ownership of agricultural machinery	249	—

In the case of most of the agricultural associations in Germany the liability of the members is unlimited, but the principle of limited liability is, nevertheless, being more and more adopted in societies created otherwise than for credit. In 1907 the number having limited liability was only 11 per cent., whereas by 1910 the percentage had increased to 21½. Figures in respect to 23,737 societies on June 1st, 1910, published in the *Journal of the Board of Agriculture* for July, 1912, are as follows :—

	Unlimited Liability.		Limited Liability.	
	No.	per cent.	No.	per cent.
Credit Societies	14,325	92·32	1,172	7·55
Trading „	1,258	55·18	1,019	44·69
Dairy „	2,202	66·07	1,062	31·86
Other „	867	31·93	1,832	67·48
Total	18,652	78·22	5,085	21·33

FRANCE.

Agricultural unions in France are mainly divided into two groups—associations and syndicates.

The agricultural associations comprise Societies of Agriculture, Agricultural Assemblies (*comices*), and Chambers of Agriculture. They devote their energies principally to science and research, improvement of livestock, agricultural legislation, etc. Of Societies of Agriculture there are 685, and of agricultural *comices* 917.

“Syndicate” is a term which signifies, in France, not a group of financiers, as in England, but, in effect, the equivalent of our expression “trade union”; and it was under a law of March 21st, 1884, giving the representatives of every industry in France almost complete liberty of association, that the agriculturists—who, at the last moment, were expressly included—got a charter which enabled them to organise the groups of societies, or “syndicates,” comprised in agricultural organisation as developed in their country to-day.

While the industrial syndicates regarded the law of 1884 as the concession to them of the right to strike, the agricultural syndicates at first established themselves almost solely as distributive co-operative societies to which the associated farmers looked as a means of obtaining at reduced cost the requisites for their farm work. This they did more especially in the case of fertilisers, with the further advantage, in respect thereto, that the syndicate was better able to arrange for analyses and to guarantee quality; but combination for purchase of fertilisers led to similar arrangements being made also in respect to implements, machinery, seeds and breeding-stock. How the number of these syndicates has increased is shown by the following figures:—

YEAR.			SYNDICATES.	MEMBERS.
1890	..	..	648	234,234
1900	..	..	2,069	512,794
1910	..	..	5,146	777,066

Of federations of agricultural syndicates there were 55 in 1910, grouping 2,392 of the local organisations.

Co-operative societies for production and sale, and composed exclusively of farmers, number about 2,660, classified as follows: Cheese-making, 1,800; dairies (butter-making), 685; wine-making, 39; starch-making, 34; collective purchase and employment of agricultural machinery and implements, 23; oil-mills, 20; distilling, 17; milling and baking, 16; sugar manufacture, 8; fruit and vegetable preserving, 5; collective transport, 1; sauerkraut preparation, 1; sale of eggs and farmyard produce, 1; distilling flowers for perfumery, 1; flax preparation, 1; other co-operative societies, 8. Adding to these figures societies not composed exclusively of farmers, the total number engaged in production or sale is estimated at 3,260.

Agricultural credit has undergone great expansion in France of late years, mainly through the influence of State aid.

The law of 1884 prepared the way for co-operative credit banks, and the pioneer bank of this type in France was constituted in 1885.

Increased facilities for the creation of rural banks on the Raiffeisen principle, though differing therefrom in some essential details, were conferred by the Méline law of November 5th, 1894. These further banks were to be based on the agricultural syndicates, and were to derive their members from them, but down to 1899 (when the number created was still only 136) they existed on their own resources without any credit from the State. Such resources were, however, found insufficient to allow of an expansion of the system adequate to the growing needs of rural life, and further action was considered necessary, in the special direction of State aid.

An opportunity for rendering this aid came in 1897, when the renewal by the State of the privileges conceded to the Bank of France was arranged on conditions which led to the State (1) receiving from the bank a sum amount-

ing to 2,000,000 francs (£80,000) a year, and (2) having placed at its disposal, without interest and up to the year 1920, a sum of 40,000,000 francs (£1,600,000), the whole to be applied to the extension of agricultural credit.

Following on these new arrangements, though not until after prolonged discussion, there was passed the law of March 31st, 1899, which created the regional banks of mutual co-operative credit. These regional banks were to group the local banks into federations, discount their bills, and be the means of transmitting to them loans from the State funds in question to constitute their working capital. In 1901—that is, within two years of the passing of the Act—there were 16 regional banks at work, and by 1910 there were 96.

Meanwhile, various causes had led to the desire for a further extension of the credit system, among them, as set forth in the “Bulletin of the Bureau of Economic and Social Intelligence” for January, 1912, being: (1) The newer and constantly-increasing needs of agriculture as an industry; (2) the progress made by the principle of co-operation for agricultural production; and (3) the growing necessity for small families to develop and consolidate small properties threatened by too minute a parcelling out or by the rural exodus.

So the existing system of agricultural credit at short date was supplemented by a system of long-date credit granted, under a law passed in 1907, to co-operative societies, and, under another law passed in 1910, to individual farmers.

In the former case the regional banks advance loans at the almost uniform rate of 2 per cent., and for periods not exceeding twenty-five years, to agricultural co-operative societies engaged in production, the purposes to which the loans may be applied being, however, restricted to the following: Production, manufacture, preservation or sale of agricultural commodities; acquisition, construction, installation, or adaptation of buildings, workshops, store-houses, or transport conveyances; and collective purchase

or use of agricultural machinery and implements. Long-date loans to farmers are granted by the regional banks—through the intermediary of the local societies—up to the amount of 8,000 francs (£320), for the purpose of buying or improving small landed properties. The money lent is to be repaid, by annual instalments, in fifteen years.

How, under these circumstances, agricultural credit expanded in France during the period 1900-10 is shown by the following figures:—

YEAR.	NUMBER OF REGIONAL BANKS.	AFFILIATED LOCAL BANKS.		
		Number.	Members.	Loans granted.
1900	9	87	2,175	£76,000
1910	96	3,338	151,621	4,528,000

The total sum which the regional banks had at their disposal in 1910, including loans from the State, was £2,287,000, and of this amount £2,017,000 was assigned to the financing of local agricultural co-operative banks under the law of 1899.

Down to the end of 1910 long-date loans had been granted by the regional banks to productive agricultural co-operative societies, under the law of 1907, as follows:—

Number of societies receiving loans	..	..	131
Number of members	..	..	16,497
Paid-up capital	..	..	£108,850
Loans received	..	..	£176,233

The total of 131 societies is made up thus:—

Dairies and butter factories	..	..	..	29
Wine societies	..	..	..	29
Cheese-making societies	..	..	..	26
Purchase and collective use of agricultural machinery and implements	..	..	..	17
Distilleries	..	..	..	11
Wine and oil societies	..	..	..	5
Oil societies	..	..	..	5
Starch factories	..	..	..	2
Various	..	..	..	7
Total	..	..	..	131

The period for which, in practice, the loans are granted to the societies ranges from ten to twenty-two years; but mention is made of one small co-operative vine-growing society in the department of Var which obtained in 1909 an advance of 16,400 francs (£656) for a period of fifteen years, and made so good a profit out of the high price of wine in 1910 that it was then able to repay the entire loan at once.

Agricultural insurance societies have greatly increased in number in France. In 1897 there were not more than 1,483 in the country, and of these about one-half, of a rudimentary type, were in the single department of the Landes. In 1910 there was a total of 10,731 societies, divided as follows: Cattle insurance, 8,428; agricultural fire insurance, 2,187; insurance against hail, 25; insurance against agricultural accidents, 7; cattle re-insurance, 58; fire re-insurance, 26.

Syndicates for live-stock improvement, to which the Government have made a grant of £8,000, are also being considerably extended.

The grand total of agricultural associations of all types, co-operative and non-co-operative, in France, according to the latest available returns, is 38,369.

DENMARK.

The general position in Denmark is indicated by the following details in regard to the leading organisations in 1909:—

CO-OPERATIVE SOCIETIES.	NUMBER.	MEMBERS.
Dairies	1,157	157,000
Bacon factories	34	95,000
Purchase of requirements..	15	65,000
Export of cattle	—	8,400
Export of eggs	—	52,000
Horse-breeding	270	21,500
Cattle-breeding	1,260	31,300
Pig-breeding	253	6,430
Sheep-breeding	102	850
Control societies	519	12,000
Total	3,610	449,480

In respect to dairies it might be mentioned that, in addition to the 1,157 co-operative, there were 238 commercial, and 90 estate, dairies. Out of 183,313 holdings, with 1,282,254 cows, in Denmark, 154,568 holdings, with 1,059,956 cows, were associated with the co-operative dairies.

About 880 dairies, mostly of the co-operative type, have combined to form twenty-one unions for the development of the industry through lectures, exhibitions, and other means; and twenty of the twenty-one unions have formed two federations which, in agreement with the union not connected with either, have appointed a committee to watch over common interests. The dairy unions also appoint "juries" of experts to test the milk supplied and endeavour to keep up its quality.

Some 840 of the dairy societies were, in 1909, affiliated to a Collective Purchase Federation formed in 1901 to enable the Danish dairies to obtain their machinery and other requisites under the most favourable conditions. The business done by this federation in 1909 amounted to £105,000.

For the export of butter there are federations of dairies whose officers devote themselves to the sale of butter independently of middlemen. There were, in 1909, six of these federations, operating on account of 225 co-operative dairies, and the business done by them amounted to about £1,758,000.

Almost all the butter exported comes to the United Kingdom. The total quantity we received from Denmark in 1911 was over 85,000 tons, valued at £10,500,000.

How the co-operative bacon factories have increased in number and in the amount of business done by them may be shown thus :—

YEAR.			NUMBER OF FACTORIES.	NUMBER OF PIGS SLAUGHTERED.
1888	..	..	.. 1	23,400
1890	..	..	.. 10	147,500
1900	..	..	.. 26	675,200
1909	..	..	.. 32	1,362,500

In addition to these co-operative bacon factories there are about twenty private ones working for exportation, and slaughtering 500,000 pigs in the year.

Co-operative societies for purchase are of the greater importance in Denmark on account of the necessity for importing large quantities of grain and feeding stuffs for livestock, the home supplies being wholly inadequate. In 1909 the total purchases of the fifteen societies specially established for this purpose (apart from what is done in the same direction by other societies) amounted to £1,736,000, of which sum about £1,500,000 was for grain and feeding stuffs, the remainder being for seeds and chemical manures.

Egg-export from Denmark is in the hands mainly of two large federations—the Danish Co-operative Society for the Export of Eggs, established in 1895, and the Esbjerg Butter Packing Company, which began to export eggs in 1899—and seven co-operative bacon-curing factories. The system adopted for obtaining the eggs is based on the organisation of collecting centres, of which the Egg-Export Society has 550, with a membership of 43,000, the business done by this one society alone in 1909 amounting to £253,000. The Esbjerg Company has 300 collecting centres. The total value of the eggs exported from Denmark in 1909 was £505,000.

The Control Societies keep an account, in the case of each cow registered, of (1) milk yield, (2) proportion of butter-fat in the milk, and (3) the relation between yield and fodder, thus giving the farmer valuable information as to the stock specially suitable for breeding. They were first established in Denmark in 1895. The number of cows registered in 1909 was 206,800. Various forms of agricultural insurance—including fire, storm, hail and live-stock insurance—have also been developed.

HOLLAND.

“Marvellous” is the phrase applied to the advance of agricultural organisation in Holland.

For the actual beginnings of the movement there we have

to look, as in the case of other European countries, to the agricultural crisis that began to be felt about the year 1880. The changes in production, the competition of foreign supplies, the cheapening of sea transport and the altered conditions of international trade first brought home to the minds of the Dutch peasantry the need for association, while later on this need was emphasised, in their case, by the fact that certain producers in Holland were causing a bad name to be given to Dutch produce by reason of the inferior qualities thereof they were then sending to foreign markets.

It was, however, not until about 1890 that the movement began to be taken up in Holland in real earnest. Among the peasantry the idea of co-operative action in agricultural production and sale was, down to that time, almost unknown. All the same, it is mainly to the Dutch peasantry that the subsequent rise and expansion of the said idea in their country are due. The main lines of policy adopted by the Dutch Government were those of, first helping to propagate the principle of co-operation, and then leaving to the societies the fullest possible choice in deciding for themselves the form of their constitution according to one or other of four different methods of association sanctioned by the laws of Holland. The Government have also in recent years given small subventions in support mainly of credit and cattle-breeding societies.

So well has the movement spread in this short period, and under these particular conditions, that to-day the number of co-operative agricultural societies in Holland is 1,341, with a membership of about 135,000.

Co-operative credit societies of the Raiffeisen type, and forming dependencies of three central banks, whose headquarters are at Utrecht, Eindhoven and Alkmaar, have more especially undergone a remarkable growth, the 46 banks, with 2,501 members, in 1899 having increased to 582 banks, with 40,840 members, by 1909.

Co-operative purchase, mostly in regard to fertilisers and concentrated foods for cattle, is carried on by the agricultural

societies ; but, though the societies are grouped in federations, the rule in Holland is for each branch to make its own purchases, independently of the federation.

Co-operation for sale is chiefly organised in connection with vegetables and fruit, of which very considerable quantities find their way to the English market. The organisation is carried out by local horticultural societies, some 250 in number, and of these no fewer than 80 have established public sales of the produce of their members.

Co-operation for butter production has been developed so far that there are now 686 co-operative dairies, of which 358 are worked by steam-power and 328 by hand. The majority are grouped in seven federations centralising purchase of necessities, and in some measure also regulating the butter production, while the quality of the butter is guaranteed by a "Control" system which, while due to private initiative, receives a subvention from the State.

Other co-operative societies in Holland deal with stock-breeding and agricultural insurance.

BELGIUM.

In Belgium, as shown by the latest available figures, for 1909, agricultural organisation would seem to have spread throughout the country with such thoroughness as to cover every possible interest.

Of the agricultural *comices*, which hold shows and exhibitions, carry on experimental farms, and answer mainly to our own type of agricultural societies, there were in 1909 a total of 160, with nearly 38,000 members, and they held in that year 6 district and 96 cantonal shows.

Agricultural "leagues" in Belgium are mostly village or communal organisations corresponding to our agricultural co-operative societies. They generally start with collective purchase of farm requisites, and afterwards occupy themselves with credit, insurance, live-stock improvement, etc. furthering these aims by affiliation with a cantonal, regional or national federation. The total number of leagues in

1909 was 1,093, and their membership was 71,395. The 185^{*} horticultural societies, with a membership of 29,000, complete their organisation with a series of regional federations, which, in turn, select delegates to a National Committee for the progress of horticulture.

Societies for the purchase of seeds, manures, foodstuffs and machinery (including the purchase sections of the *comices* and leagues) number 1,123, with a membership of 70,208. Their purchases in 1909 amounted to nearly £718,000.

Of co-operative dairies in actual working in Belgium in 1909 there were 521. These had 56,805 members, possessing 162,000 cows, and the total sales for the year amounted to £1,523,316. It was, however, reported in connection with a National Dairy Congress held at Brussels in 1911 that the general condition of the co-operative dairies in Belgium was not satisfactory. For four or five years the position had remained stationary, and in many provinces there was even a considerable decline. One authority at the congress, M. Collard Bovy, attributed such decline to bad organisation and bad management, while economically, he said, "no attention had been paid in Belgium to the fact that butter-making was the least remunerative part of dairying, and that cheese-making and various other subsidiary industries which, under the guidance of technical advisers, might be developed in connection with the dairies, would be more lucrative."

Apart from dairy produce, several systems of co-operation for sale have been established, though societies which do not also engage in the purchase of requisites are said to be far from flourishing. Among the sale societies are 73 of beet-root-planters, described as "rather leagues of defence against the sugar manufacturers."

Of cattle-breeding societies there were 447 in 1909. They had 18,705 members, and the number of cattle registered on the books of the societies was 56,727. Goat-improvement societies numbered 425, with 40,260 members, possessing 48,505 goats; pig breeders had formed 19 societies, with

48,505 members; and there were also 56 rabbit-improvement societies, with 1,116 members. Poultry societies totalled 148, with 6,820 members; and of bee-keepers' societies there were 197, with 5,032 members.

The 1,142 voluntary cattle-insurance societies had 101,700 members on December 31st, 1909, and the number of cattle insured was 294,583. There are also horse, goat, and pig insurance societies.

Raiffeisen banks in Belgium numbered 614 in 1908. They are grouped into regional federations, forming seven central banks. These central banks are the intermediaries through which the General Savings Bank can, in accordance with the powers granted to it, distribute credit to the rural banks, the central banks in turn guaranteeing the engagements of the local banks with the General Savings Bank. They also control the local banks and receive the surplus funds of some in order to grant loans from this source also to others. The loans to members of the rural banks amounted in 1909 to £373,900.

An especially important feature of the situation in Belgium is afforded by the great federations with which the smaller societies are almost invariably connected.

To the federation known as the "Boerenbond," founded in 1890 by the Abbé Mallaerts, "Father of the Peasants," there are now affiliated 531 local associations, with 44,500 members. It claims to have undertaken the threefold mission of (1) the defence of the religious, moral and material interests of the peasants; (2) the promotion of agricultural legislation; and (3) the advance of agricultural organisation; and in the carrying out of this programme it seeks to interest itself in everything that concerns agriculture and the agricultural community. Among other things it publishes reviews, arranges lectures, holds conferences, conducts departments for collective purchase and sale, has a laboratory for the analysis of agricultural commodities, equips and inspects dairies, supplies agricultural machines, creates credit societies, organises agricultural insurance, holds holiday courses for managers and others connected with

agricultural concerns, gives legal assistance, watches over the management of affiliated societies, affords expert guidance in cattle-breeding, interests itself in farm-women's clubs, seeks to check the exodus from the country districts, and does good work in many other ways besides.

Purchases made by the federation in 1910, on account of its branches, included the following: Fertilisers, £69,334; feeding stuffs, £352,328; seeds, £5,670; and agricultural machinery, £3,016.

Of Raiffeisen banks affiliated to the Boerenbond in 1909 there were 297, with 21,495 members.

The Agricultural Federation of East Flanders, founded in 1891, comprises 275 societies, with over 30,000 members. Constituting the head-quarters of all agricultural co-operative work in the province, it occupies itself with every agricultural interest, and carries on an active propaganda by means of pamphlets and a publication of its own, but more especially by frequent lectures.

West Flanders has also an Agricultural Federation of 72 societies, with over 7,000 members. In addition to collective purchase, the Federation organises about 100 lectures annually, publishes a weekly organ, issues to members a weekly bulletin giving current prices of fertilisers and feeding stuffs, conducts a students' club for dairy managers, and organises credit, insurance, live-stock, dairy and other co-operative societies.

Farm-women's Clubs were started in Belgium in 1905 by M. de Vuyst, Inspector-General of Agriculture, who, inspired by what he had seen of Women's Institutes in Canada, established at Leuze, on kindred lines, an organisation which was the first of its kind on the Continent of Europe. In 1910 there were 75 of these clubs in Belgium, with a membership of 7,000.

M. de Vuyst says, in a book he has published on " *Le Rôle de la Fermière* " (Brussels: Albert de Wit), that the main object of the clubs is to keep fresh the knowledge acquired in the agricultural schools, and to enable their members to become acquainted with the new processes introduced by

agricultural science. In effect, however, the clubs concern themselves with the whole range of women's interests and duties both on the farm and in the home. The clubs have their libraries of books relating to agriculture, dairy work, poultry farming, domestic economy, health, etc.; they hold meetings at which addresses on a wide variety of subjects are given, the aggregate attendance at these gatherings in 1909 being over 12,000; they train women lecturers; they arrange visits to model farms, and they also organise shows, with a view to extending knowledge of the best methods of cultivation of stock, poultry breeding, or dairy management; while their various aims and objects are further fostered by the publication of periodicals dealing with women and country life in general.

In 1909 a regional congress, attended by representatives of 60 clubs, was held at Namur, and in 1911 the whole of the clubs established by women relatives of members of local societies affiliated to the Boerenbond grouped themselves into a federation which now constitutes one of the departments of that great organisation.

BRITISH INDIA.

Co-operative credit is the form of agricultural co-operation which has hitherto mainly been developed in British India, and even in this respect the progress made has been primarily due to State action.

India, with its bureaucratic Government, and with its many races of people of varying types of civilisation, differs materially from countries possessing representative Governments and having populations more likely to resort on their own account to organised effort for the obtaining of common economic advantages. Yet though the said bureaucratic Government has taken the initiative, it does not propose to adopt more "spoon-feeding" than may be absolutely necessary. According to Bulletin No. 3 of the Bureau of Economic and Social Intelligence, the Government has set itself the task of teaching the population of India the principles of co-operative credit, and also—while exercising no

compulsion—of promoting the formation of credit societies, and guiding them in their work. But the Government, we are further told, “has recognised that its task is something more than this. It is its policy to create a popular movement, and gradually to convert the initiative of the State into active propaganda conducted by the people of India themselves, and even, as far as possible, to place the work of financing and supervising the societies in the hands of popular organisations.”

As for the results, Mr. Henry W. Wolff, in the third edition of his book on “People’s Banks,” declares that “the opportunities furnished by the banks have whetted the popular appetite for more productive methods of husbandry”; that “the seed of co-operation has in India fallen upon good ground”; and that “the progress made is quite phenomenal.”

This last-mentioned expression is fully warranted. The Co-operative Credit Societies Act, laying down the broad outlines of the system of co-operative credit to be promoted in the various Provinces of India, was not passed until 1904, and in March 1905, there were in India only 35 rural and six urban credit societies; yet the position in 1910-11, as shown by figures published in the “Statement Exhibiting the Moral and Material Progress and Condition of India during the year 1910-11,” issued from the India Office, was as follows:—

SOCIETIES.	NUMBER.	MEMBERSHIP.	WORKING CAPITAL.
Central ..	59	5,682	£ 331,600
Urban.. ..	368	62,598	291,900
Rural	4,894	236,778	730,200
Total ..	5,321	305,058	1,353,700

The central societies here referred to comprise (1) central banks, which exist primarily for the purpose of financing

affiliated societies; and (2) central unions, which are federations for the purpose of inspection, control and mutual guarantee. In some instances, the functions of a central bank and a central union are combined in a single body, known as a central banking union. The central and urban societies are based on limited liability. Rural societies work with unlimited liability, "a principle," we are told, "which has no terror for the ryot, who has long been accustomed to it in his family relations." The chief purposes for which loans are obtained from the rural banks are purchase of cattle, payment of land revenue, and repayment of loans from money-lenders. Smaller sums are also advanced for non-productive purposes, such as expenditure on marriage and other ceremonies.

Of the £730,000 working capital of the rural societies, £466,000 represents loans from non-members and other societies, £96,000 share capital, £105,000 members' deposits, £23,000 reserve, and £40,000 loans from Government. The financial support of the State is, however, being gradually withdrawn. In several provinces State loans have been altogether discontinued. "The movement has almost everywhere passed out of the experimental stage; many of the societies are self-supporting and are winning more and more the appreciation and confidence of the people."

While agricultural organisation has thus far developed in India mainly on the lines of co-operative credit, the "statement" further says:—

Co-operative societies for productive and distributive purposes exist, but not as yet in any numbers. Some of the rural credit societies, however, have extended their activities in these directions; they market the produce of their members, purchase agricultural machinery for their use, etc. The Provincial Agricultural Department finds these societies admirable intermediaries for the propagation of improved methods of cultivation.

JAPAN.

The example of Japan is especially interesting as that of a nation which, having resolved to adopt "all modern

improvements," in the way of social and economic progress, has naturally resorted to the main principles of agricultural organisation, and has also developed them at a rate and with a comprehensiveness hardly to be surpassed elsewhere.

This latter fact is well brought out by the following Table, which gives the total number of agricultural co-operative associations in Japan in the years mentioned :—

YEAR.	NUMBER.	YEAR.	NUMBER.
1900	21	1905	1,671
1901	263	1906	2,470
1902	512	1907	3,363
1903	870	1908	4,361
1904	1,232	1909	5,149

The figures for 1909 give the position on June 31st, whereas the others are for December 31st in the years mentioned. The former thus show an increase for six months only. The total of 5,149 is made up thus :—

SOCIETIES.	NUMBER.
Credit	1,864
Sale	187
Purchase	744
Production	64
Sale and purchase	440
Sale and production	113
Purchase and production	48
Sale, purchase and production	200
Credit and sale	29
Credit and purchase	699
Credit and production	8
Credit, purchase and sale	538
Credit, purchase and production	18
Credit, sale and production	3
Credit, sale, purchase and production	194
Total	5,149

The estimated number of members of these societies on June 30th, 1909, was 445,092.

As indicating the eagerness of the Japanese to profit by the experience of other nations, it might be mentioned that, at the request of the Central Association of Japanese Agriculturists—a like request subsequently being received from the Home Department of the Bureau of Local Affairs, Tokyo—the author of "The Organisation of Agriculture"

assented to the translation of his work into Japanese, and he has since been officially informed that copies of the book, in that language, have been circulated among the local authorities in Japan.

THE UNITED STATES.

Agricultural organisation and agricultural co-operation have alike been developed in the United States under conditions peculiar, to a certain extent, to that country, yet with such success that, although definite figures are lacking, competent authorities estimate that the total number of societies there is about 75,000, while the total membership is put, approximately, at 3,000,000. The distinction between "organisation" and "co-operation" is not always clear, while a good deal of agricultural organisation is to-day being developed, or projected, in the United States on capitalist rather than co-operative lines; but in either case the fundamental principle of, at least, *combination* in agriculture is involved.

At first there was a reproduction of the ordinary type of agricultural societies familiar to European states, and these, with their spread of scientific or technical knowledge, their stock improvement and their shows, etc., did much good in the days when agriculture in the United States was still comparatively undeveloped, and provided mainly for local markets.

Then the farmers began to combine on a much broader basis for the attainment of legislative and other advantages.

They created a "Farmers' Alliance" which seemed likely to become a powerful body, and might have done so but that it collapsed because it was unduly political. Permanent success was, however, gained by what is known as the "Grange" movement.

Originally founded in 1867, this further movement aimed at advancing the general interests of farmers in almost every phase of their activities, included therein being the popularisation of agricultural science, the formation of co-operative agricultural societies, the improvement of

agricultural production, combination for sale, tariff, sanitation and other legislative questions, and problems of national life in general. The basis of the organisation is formed by local Granges. These "secret societies" (for such they are in effect, being somewhat akin in their working to the Freemasons' societies) elect representatives to County Granges which, in turn, send delegates to State Granges, and these, again, choose the members of a National Grange, whose annual congress is the equivalent of a Farmers' Parliament for the United States, and is the most influential body of agriculturists in that country.

In regard to the various phases of agricultural co-operation in the United States, it is a noteworthy fact that while there has hitherto been comparatively little development of the principles either of agricultural credit or of collective purchase, which have been primary causes for the spread of agricultural co-operation in many other countries, there has been a remarkable expansion of that principle of combination for sale which elsewhere has been regarded as the particular form of the general movement that presents greater difficulty than any other.

It is in the western States, in connection with the fruit industry, that co-operation for marketing has undergone the greatest degree of expansion. A variety of causes have contributed to this result, among them being (1) the fact that the great production of fruit—more especially in California—made it necessary that markets should be sought, not alone in other States, but in other countries; (2) the need for having as full and complete a knowledge of these markets as possible; (3) the necessity for consigning to them under such conditions as not only to secure the best terms for transport, but also to guarantee the sending of produce in large quantities of uniform qualities, and likely, therefore, to secure uniform prices; and (4) the obvious advantage in having all these things done through powerful co-operative societies, each acting for a large group of growers, instead of leaving every individual among them to make the best terms he could with the middlemen who had

previously controlled the situation, and this, too, with such monopolistic tendencies that a desire to escape from their "exaggerated claims" is said to have been one of the primary reasons for the eventual resort to the system of organisation for sale.

Upon how big a scale some of these societies operate may be shown by a few facts concerning the California Fruit Growers' Exchange.

This central body, the headquarters of which are at Los Angeles, is elected by fourteen district associations, themselves representing about 100 local societies of fruit-growers. The local societies collect the fruit from their associated members and see to the packing and the forwarding of it, in complete truck loads, to one or other of seventy-five paid agents established near the chief markets of the United States and Canada, or in London. In the event of the producer not having specified (as he is at liberty to do) to whom his consignments are to be delivered, the agents arrange the sale and get the best possible terms. At Chicago and Omaha there are general agents who direct the operations of the local agents and keep in close touch with the markets, advising daily by telegraph or telephone. Information as to markets is also regularly supplied by the staff of agents.

In 1909 the number of fruit-growers connected with this one organisation was between 10,000 and 12,000; the consignments of fruit made by the society amounted to 14,500,000 boxes; the accounts showed an aggregate profit of £4,575,000, while in addition to the increased net returns in the price of their products the growers saved about 50 per cent. in their expenses as compared with what their expenditure would have been under former conditions.

Another society, the Peninsular Products Exchange of Maryland, which does an annual business of about £400,000, is said to spend £2,000 a year on gaining information as to the different markets.

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The total number is about 1,900, and the value of the output of those in the central northern region, particularly in the State of Minnesota, is alone put at about £6,000,000 a year.

Then the American farmers, finding, as is said, that the struggle against the "tyranny" of the commercial interests controlling the grain elevators near the railway stations in the central and western regions was "a matter of life and death to them," formed co-operative societies and erected elevators of their own; they have their co-operative societies for life insurance and sickness insurance; they overcame the difficulties which arose in the insuring of farm property or farm produce through the ordinary companies by forming societies for co-operative fire insurance; they have adopted a system of co-operative telephones, one society alone having 760 miles of telephone line; they have organised co-operative live-stock associations with a view to making a particular township or county noted for the production of some special breed or breeds of cattle, and they have also established societies for the "control" of dairy cattle.

In addition to the furthering of these various economic interests, rural betterment and the revival of country life are aspirations which have been especially cherished in the United States. The agricultural societies associated with the Grange movement sometimes unite in district or even in State federations, to which the name of Leagues for Rural Progress is given. The object of a representative body of this type, The New England Conference for Rural Progress, is said in the rules to be "to promote the interests of agriculture and of rural life in the New England States by securing the co-operation and federation of the various State and inter-state organisations and agencies which are working for rural betterment and agricultural advancement in New England."

A more important development in this direction came, however, with the appointment, in 1908, by President Roosevelt, of a commission to study the urgent problems of

American rural life. In his letter of instructions to the members of this commission Mr. Roosevelt said :—

In the United States . . . the farmers in general are better off to-day than they ever were before. . . . But practically the whole of this effort has hitherto been directed towards the increasing of crops. Our attention has been concentrated almost exclusively on getting better farming. . . . Agriculture is not the whole of country life. The great rural interests are human interests, and good crops are of little value to farmers unless they open the door to a good kind of life on the farm.

This problem of country life is in the truest sense a national problem. . . . The farmers have hitherto had less than their full share of attention along the lines of business and social life. There is too much belief among all our people that the prizes of life lie away from the farm. I am, therefore, anxious to bring before the people of the United States the question of securing better business and better living on the farm, whether by co-operation between farmers for buying, selling and borrowing, by promoting social advantages and opportunities in the country, or by other legitimate means that will help to make country life more gainful, more attractive, and fuller of opportunities, pleasures and rewards for the men, women and children on the farms.

Among the recommendations made in their report by the members of the commission was one that—"Before all things an efficient movement in favour of co-operation among the farmers is to be desired, to put them in a position to sustain the struggle against the other economic classes they have business relations with."

On the question of co-operative agricultural credit mention has already been made of the fact that hitherto little advance has been made in the United States ; but there is gratifying evidence that the financial interests there are preparing to recognise more fully the claims of agriculture to their own encouragement and support, the subject of "Agricultural Development and Education," introduced by Mr. George E. Allen, educational director of the American Institute of Banking, having been one of the matters discussed at a convention of the New York State Bankers' Association held at Buffalo on June 13th and 14th, 1912.

In anticipation of this discussion, and in view of the

possibility of some action being taken by the Association to encourage agricultural development in New York State, several articles on the subject were published in the issue of *Moody's Magazine* for June, 1912, among them being one on "The Importance of Improved Agriculture: The Banker's Opportunity," by Mr. W. C. Brown, President of the New York Central Railroad. Commenting especially on the failure in the United States to increase the production of the nation's farms by increasing the number of bushels per acre—such failure being attributed to "careless, uninformed methods of seed selection, fertilisation and cultivation"—Mr. Brown said that the railroads, both in the east and the west, were co-operating with the State agricultural colleges and other institutions having departments of agriculture in running trains and arranging meetings of farmers for the purpose of preaching the great gospel of better methods, which also meant more profitable farming; but no organisation, he declared, could wield a more potent influence in stimulating and directing this movement than the New York Bankers' Association. He especially advised them to—

Lend money liberally, if assured that it will be used intelligently and economically in increasing the productivity of the farm by drainage and by fertilisation; because these things will double the value of the farm, double the prosperity of the community, and in turn double the deposits and increase the dividends of your bank.

While public authorities, experiment stations and agricultural colleges can contribute much in the way of stimulating interest in this agricultural awakening by disseminating accurate knowledge and the results of scientific research, the most important feature of the work is personal counsel and advice from those who thoroughly understand its economic significance and in whose judgment the farmers are accustomed to place most confidence. No body of men is so favourably situated, or is better equipped by experience and influence to further this movement than the bankers of this State.

To take advantage of this opportunity is to exercise constructive statesmanship of the highest order; and the imagination can conceive of no higher duty, no broader patriotism, and no more far-reaching philanthropy, than to take part in this vitally important work.

In the further issue of *Moody's Magazine* for September,

1912, there was published an article on "Banks for the Farmer," by Mr. Myron T. Herrick, the American Ambassador to France, preceded by an editorial Note stating that Mr. Herrick "has been making a special study on behalf of the United States Government of the farm financing systems of Europe with the object, we understand, of assisting in the preparation of legislation for the introduction of similar systems" in the United States. It is further mentioned in the Note that Mr. Edwin Chamberlain, of the American Bankers' Association, was returning from Paris in order to address the Savings Bank Section of that Association at Detroit, on September 12th, on "European Land and Rural Credit Facilities."

Mr. Herrick says in his article :—

The course of the industrial development of the United States thus far has been such as to stimulate the growth of urban population, partially at the expense of the rural districts, until the overcrowding in our cities has become a matter of serious concern. The pressure of population in the cities has materially lowered the standard of living of large numbers of people whose ability to participate intelligently in the industrial and political affairs of the community is thus lessened. On the other hand rural life provides the proper environment for the development of a high order of manhood and womanhood. The tendency of farm life is to produce a virile citizenship—a class of men and women who are actively responsive to their civic duties. It is, therefore, of the greatest possible importance to the social, political and economic welfare of the country that everything possible be done to promote its agricultural interests.

Heretofore, he proceeds, the conditions of the United States have been so favourable to farming that agriculture has been regarded as an industry needing little consideration, the necessity for the wise development and conservation of agricultural resource being overlooked in the eagerness to attain commercial and industrial supremacy. The availability of virgin fertile land made the farmers careless in their methods; but the time has come when there must be adopted methods of cultivation that will yield the greatest amount consistent with economical production. Mr. Herrick gives figures from the United States census of 1910

to show the present unsatisfactory, if not actually "alarming," status of agriculture there, and he proceeds:—

- Much is now being done by the National Government, the States, various associations and individuals to diffuse and magnify the interest in farming, to disseminate technical knowledge of agriculture, to encourage higher standards of cultivation, to eliminate waste, and to make rural life more attractive. All this is excellent and necessary, but it also is essential to provide some means by which farmers can secure at low rates the funds they need to increase the productivity of their land; otherwise, much that is being done to educate farmers in scientific methods will be without practical result.

Some of the older countries, France and Germany, for instance, not only taught their farmers how to make their land yield maximum crops but set up the financial machinery by which they could borrow easily and cheaply the money they need to put into operation the things that are taught; and—

The history of agriculture in France, Germany and other countries proves conclusively that one of the essential factors in the development and maintenance of scientific farming is the existence of facilities whereby landowners can obtain funds on favourable terms . . . Whatever else may have been done in France, Germany and other countries to raise the standard of farming, it is clear that little would have been accomplished had the financial needs of farmers been ignored.

Mr. Herrick comments on the disadvantages under which the American farmer suffers when in need of funds by the use of which the output of the farm can be increased; he gives details as to what is being done on the Continent of Europe to develop agricultural credit, and concludes:—

The details of the organisation of these societies and companies have been fixed by the social and economic conditions of the country in which they are located, but American ingenuity surely is equal to the task of elaborating and of adapting to conditions here the principles that underlie the foreign agricultural credit institutions. An intelligent regard for the future status of agriculture in this country, and, by consequence, of social and economic progress demands that well advised and active measures be taken to perfect arrangements whereby farmers, to finance legitimate operations, may have access to the broad, steady security market now open only to municipalities and to large industrial and railroad corporations. Fortunately, the necessity of having cheap money to finance scientific farming is widely

recognised. Both the Republican and Democratic national platforms of this year very properly recommend and urge the investigation of foreign agricultural credit organisations as a basis of legislation in this country.

AN INTERNATIONAL FEDERATION.

Down to 1904 the agricultural co-operative societies of Europe in general were content to discuss questions of international policy through the International Co-operative Alliance, which deals with co-operation in all its various phases in the different countries of the world. At the Buda Pest Congress of the Alliance, however, held in the year mentioned, the representatives of the German and Austrian rural co-operative societies dissented from the passing of a resolution hostile to the granting by the State of financial aid to co-operative undertakings, and they carried their dissent so far as to withdraw from the Congress altogether. Three years later, on the initiative of the Imperial Federation of German Agricultural Societies, there was formed at Lucerne an International Confederation of Agricultural Co-operative Societies which was to consist exclusively of national federations of co-operative agricultural societies and deal only with the special interests of that type of organisation.

The new body held congresses at Vienna, in 1907, and Piacenza, in 1908, to discuss matters of policy, and by the end of 1910 it had received the adhesion of national or central federations in the following ten countries:—Germany, France, Austria, Hungary, Italy, Holland, Switzerland, Bulgaria, Servia and Finland. These national federations represent a total of no fewer than 33,000 agricultural co-operative societies.

At the conferences already held by the Confederation the subjects discussed have mainly related to co-operation for production, sale and credit, and the lines of both national and international policy that should be taken thereon. In regard to production attention was called to the fact that the manufacture of fertilisers by agricultural co-operative societies had assumed large proportions in Italy, and the

suggestion was made that co-operative factories of the same kind in various countries should make such mutual arrangements as would facilitate the sale of their output, and give to the co-operative societies in general a still greater degree of independence in providing for the needs of their members. The view adopted, however, was that, while it certainly was desirable that the different countries should exchange experiences, with the object of concerting measures in common to counteract the action of trusts or combinations likely to be hostile to agriculturists, it was not at present expedient that the societies should enter on the risks and uncertainties of international co-operative trading.

It was further suggested that steps should be taken by the Confederation to facilitate the interchange of capital between rural credit societies and other agricultural co-operative bodies, both nationally and internationally; and though difficulties in the way of international action were once more foreseen, the fact that the proposal was brought forward at all is further suggestive of the direction that is being taken by the minds of leaders of agricultural organisation on the Continent of Europe.

INTERNATIONAL INSTITUTE OF AGRICULTURE.

How universal are the efforts now being made to place the interests of agriculture on a sounder scientific and economic basis can best be shown, perhaps, by some further details respecting the International Institute of Agriculture, to which reference has already been made.

The Institute was established, with headquarters at Rome, under an International Treaty, dated June 7th, 1905, in order, among other things, "to study questions concerning agricultural co-operation, insurance, and credit in all their forms, and to collect and publish information which might be useful in the various countries for the organisation of agricultural co-operative insurance and credit institutions." The Treaty was ratified by forty Governments, and ten others have since given in their adhesion. Bulletins are published by the Institute on "Agricultural Statistics,"

"Agricultural Intelligence and Plant Diseases," and "Economic and Social Intelligence," while the various other works issued by the Institute include the first of two series of "Monographs on Agricultural Co-operation in Various Countries." A former member of the staff of the Agricultural Organisation Society, Mr. J. K. Montgomery, B.A., B.Sc., is a member of the literary staff of the Institute's Bureau of Economic and Social Intelligence. The full list of States adhering to the Institute is given in the official list in the following order :—Germany, Argentine Republic, Austria, Hungary, Belgium, Brazil, Bulgaria, Chile, China, Costa Rica, Cuba, Denmark, Ottoman Empire, Egypt, Ecuador, Spain, United States, Ethiopia, France, Algeria, Tunis, Great Britain and Ireland, Australia, Canada, British India, New Zealand, Mauritius, Union of South Africa, Greece, Italy, Eritrea and Italian Somaliland, Japan, Luxemburg, Mexico, Montenegro, Nicaragua, Norway, Paraguay, Holland, Peru, Persia, Portugal, Roumania, Russia, Salvador, San Marino, Servia, Sweden, Switzerland, Uruguay.

THE MORAL FOR OURSELVES.

Co-operation in agriculture has hitherto been so widely associated mainly with Denmark that many English people have failed to realise the extent to which the fundamental principles involved have already spread throughout the world, however much the application thereof may vary according to the national circumstances or conditions of the lands concerned.

It has here been sought to show (1) what these fundamental principles are, and, (2) by a few typical examples, how they are being applied abroad in actual practice ; and the moral we are left to draw is that when so many other countries are seeking to re-establish their agricultural, their economic and their rural conditions on a firmer and better-organised basis, it is incumbent upon ourselves not to fall behind in the march of the nations along these all-important lines of material and social progress.

CHAPTER III.

THE POSITION AT HOME.

IN order to appreciate more fully the significance for ourselves of the agricultural organisation movement which is thus spreading throughout the world, it is desirable to obtain a clear idea of the position that agriculture still occupies among our national enterprises, notwithstanding all that has been said concerning agricultural depression, the decline of agricultural population, and the comparatively greater advance of textile and other industries.

AGRICULTURE AS AN INDUSTRY.

As regards persons employed in the United Kingdom, figures given in the Board of Trade (Labour Department) Abstract of Labour Statistics [Cd. 6228] show that in 1901 the premier position was still occupied by agriculture, the total number of persons employed therein, as compared with the figures for various other leading industries, being as follows :—

Agriculture	2,262,000
Conveyance of men, goods and messages ..	1,498,000
Metals, machines, implements and conveyances	1,475,000
Textile fabrics	1,462,000
Workers and dealers in dress	1,396,000
Building and works of construction	1,336,000
Food, tobacco, drink and lodging	1,301,000
Mines and quarries	944,000
Professional occupations	734,000
Commercial occupations	712,000

In the Board of Agriculture and Fisheries Report on the Agricultural Output of Great Britain (1912)—dealing with

the result of enquiries made in connection with the Census of Production Act, 1906—the number of persons permanently employed, throughout the year, on the farms of Great Britain only, and excluding all holdings of one acre or less, is given for 1908 as 1,673,000, divided into 500,000 occupiers and 1,173,000 permanent labourers. In addition to this total, however, one must take into account the considerable number of persons temporarily employed at various seasons of the year, as pickers or otherwise. The number of “hoppers,” for instance, is estimated at 161,000.

Large, again, as are the figures in regard to the number of those “employed on agriculture,” as such, one must further bear in mind that there is a wide range of subsidiary industries whose workers would not be classed under the head of “agriculture,” though in supplying agricultural implements and machinery, fertilisers, feeding stuffs and other requisites, they are, from the industrial standpoint, no less concerned in agriculture, and are no less living on agriculture, than the farm occupiers and the permanent labourers themselves. If, also, we add to those who are thus engaged, directly or indirectly, in the production of agricultural necessities the further classes concerned in the distribution of such necessities when they have been produced, we shall see that the interests involved in the agricultural industry as a whole, and in the widest sense of the term, are practically illimitable in their extent.

AGRICULTURAL PRODUCTION.

In the Board of Trade Report already mentioned the total “output” of the agricultural land of Great Britain in 1908 is stated to be £150,800,000. This figure, however, represents the value at market prices of products sold off the farms for consumption, the actual “sales” thus dealt with not including crops grown for the feeding of stock or for maintaining the fertility of the land. The total value, for example, of “farm crops” actually grown in 1908 is

estimated at £125,000,000, whereas the total value of those sold, and representing the "output," is given as £46,600,000. Nor do the figures in the Report include either the produce of land occupied in smaller lots than one acre or the considerable but unknown amount of produce grown under glass.

Not only is this figure of £150,800,000 admittedly incomplete in itself, but there is difficulty in comparing it with the "output" of other industries reported on under the Census of Production Act, (1) because "estimated value of the materials used" is not deducted in the case of the agricultural output, though it is in that of the other industries, and (2) because the figures given for the agricultural output are for Great Britain only, whereas those for the other industries are for the United Kingdom.

Subject to these reservations, I give the following table, showing the gross output (in 1908) of agriculture in Great Britain as compared with the net output (in 1907) in Great Britain and Ireland of a few other typical industries:—

	£
Agriculture	150,800,000
Mining and quarrying	118,759,000
Textile trades	96,063,000
Engineering, etc.	84,214,000
Building and contracting trades	42,954,000
Clothing trades	39,710,000
Iron and steel trades	39,578,000
Chemical and allied trades	20,879,000
Metal trades other than engineering	20,287,000
Shipbuilding	20,167,000

From the point of view, therefore, both of persons employed and value of output, and even without including subsidiary or dependent enterprises and occupations, agriculture must still be regarded as our leading industry.

FOREIGN IMPORTS.

This fact is the more remarkable when we take into account the enormous extent of our importations of food supplies. These included in the year 1911 the following items:—

ARTICLES.		QUANTITIES.	VALUE.
Wheat	Tons	4,905,454	£38,927,680
Mutton (fresh and refrigerated)	"	266,873	9,588,646
Beef	"	368,122	11,136,223
Pork	"	27,647	1,120,764
Bacon	"	243,437	14,463,414
Hams	"	47,741	2,927,610
Poultry alive or dead	"	—	918,197
Butter	Tons	215,148	24,602,111
Cheese	"	117,416	7,139,942
Eggs	Grt. Hndrds.	19,057,895	7,965,609
Lard	Tons	91,138	4,251,758
Margarine	"	47,220	2,461,325
Apples (raw)	"	166,631	2,232,992
Grapes	"	35,069	785,326
Pears	"	29,289	544,706
Onions	Bushels	8,598,722	1,222,278
Potatoes	Tons	163,120	1,307,446
Tomatoes	"	68,118	1,125,252

The sum total of the figures in the last column is £132,721,279.

It will be seen that the largest item in the table is in respect to imports of wheat, the value of which amounted to, in round figures, £39,000,000, and that the next largest item is for butter, which was imported to the extent of £24,600,000. One must, however, remember that when the British farmer can get a good market in some urban centre for his new milk, it pays him better to dispose of it in that form than to attempt to compete with the foreigner in turning his cream into butter. It should further be remembered (1) that many of the commodities imported could not be produced at all in this country; (2) that others come to us at a time when, owing to the difference in seasons, our own supplies are not yet ready; (3) that we could not meet the whole of our requirements in regard even to necessities within the range of our climatic or other conditions; and (4) that in the increase of our output in commodities which we could, and should, produce on a large scale for ourselves a great work can be done by agricultural organisation.

Still more important is the fact that, although wheat production has greatly declined in the United Kingdom, increased attention is being paid in this country—under the

“transition in agriculture”—to other commodities; and it is materially owing to this cause that the agricultural industry has maintained the aforesaid standard, notwithstanding the substantial nature of the foreign imports.

This last-mentioned fact is deserving of detailed consideration.

FARM CROPS.

In the Board of Agriculture Report on the agricultural output, the gross value, at market prices, of the wheat produced in Great Britain in 1908 is given as £10,370,000. The value of wheat imported into the United Kingdom in the same year was £38,296,000. Here, therefore, the foreigner had the advantage. But in regard to the two other chief corn crops we get the following values:—

	BARLEY.	OATS.
	£	£
Output in Great Britain	9,177,000	13,264,000
Imported into U.K.	6,114,000	4,163,000
	<hr/>	<hr/>
Excess of output over imports ..	3,063,000	9,101,000

The British farmer, again, held his own in respect to the following crops, the chief among those that are used for fodder:—

CROPS.	QUANTITY	VALUE.
	Tons.	£
Turnips and swedes	23,768,000	23,768,000
Mangolds	8,995,000	7,196,000
Clover and “seeds” hay	3,507,000	12,712,000
Meadow hay	6,213,000	19,106,000
Straw	7,000,000	12,660,000

MARKET GARDEN PRODUCE.

Then we have the fact that in recent years there has been a great increase in the growing of market garden produce on both a large and a small scale.

The growing of vegetables, partly for fodder but mainly for human consumption, is a development of modern farming of which due account must needs be taken, though there is a lack of exact figures as to quantities and values

owing to the absence of information concerning small plots of land of less than one acre, not included in the recognised "farming area" of the country. The number of such plots was given in the Allotments Return, published in 1895, as 579,133. Whatever the present number, it is certain that the vegetables grown on them, for sale as well as for consumption by the occupiers and their families, would, in the aggregate, greatly increase the official "output" figures. Taking, however, the figures as recorded for the year 1908 we get the following items:—

CROPS.	QUANTITY.		VALUE.
	Tons.		£
Potatoes.. .. .	3,918,000		9,892,000
Cabbages	954,000		760,000
Kale	28,000		26,000
Brussels sprouts	10,000		56,000
Broccoli and cauliflowers	28,000		80,000
Carrots	129,000		159,000
Onions	18,000		106,000
Rhubarb.. .. .	18,000		181,000
Celery	22,000		72,000

The values of a large number of other crops include—Mustard, £107,000; asparagus, £42,000; parsnips, £36,000; lettuce, £34,500; sea kale, £32,000, and beetroot, £26,000. Considerable areas are devoted to the growth of crops for seeds. The gross value, for instance, of 5,400 tons of clover, mangold, turnip, swede, vetches and trefoil seed produced on 13,700 acres in 1908 was £132,000. There is, again, a large number of crops not of sufficient individual importance for separate tabulation. Still another series consists of crops indefinitely described as flowers, grass, green crops, salad crops, root crops, herbs, bulbs, etc. The amount of land devoted to these two groups of crops in 1908 was 30,000 acres, and the gross value of the produce from them was estimated at £352,000.

FLOWERS.

The cultivation of flowers for sale on the market has likewise undergone considerable expansion of late years. "In many parts of England," says the Board of Agriculture

Report, "its importance as a means of exploiting land which would be less profitably devoted to ordinary farm crops is well recognised." The total area in Great Britain thus used for the cultivation of flowers and shrubs is estimated at 4,000 acres, and the gross value of the production is put at £121,000.

FRUIT.

From the same source we learn that the extent of land returned in 1908 as occupied by orchards was 250,297 acres, of which 27,433 acres bore small fruit as well as tree fruit. The area devoted to small fruit alone was 57,447 acres, so that altogether the acreage of small fruit, on holdings exceeding one acre, was 84,880; but the total would be substantially increased if plots of less than one acre on which small fruit is grown for sale were added.

Returns for 1908, when the fruit crops were considerably below the average, give the following values:—

SMALL FRUIT :—				£	£
Strawberries	..	..	..	1,036,000	
Raspberries	..	..	..	309,000	
Black currants	..	..	..	84,000	
Red and white currants	..	..	..	69,000	
Gooseberries	..	..	..	208,000	
Other kinds (including mixed)	..	..	..	252,000	
Total small fruit				..	1,958,000
ORCHARD FRUIT :—					
Apples	..	..	..	1,490,000	
Pears	..	..	..	90,000	
Cherries	..	..	..	194,000	
Plums	..	..	..	357,000	
Other kinds (including nuts and mixed)	..	..	..	406,000	
Total orchard fruit				..	2,537,000
Total all fruit				..	4,495,000

CIDER AND PERRY.

In the values of apples and pears, given in the foregoing list, are included those of fruit used for making cider, perry and cider-perry. The quantities of these beverages produced on over-one-acre farms in the chief cider-making counties in

1908, the total values, and the values of what was sold (that is to say the commercial "output," the remainder being used for domestic consumption), may be shown thus :—

BEVERAGE.	PRODUCED.	VALUE.	VALUE OF QUANTITY SOLD.
	Gallons	£	£
Cider	17,843,000	381,000	108,000
Perry	382,000	8,000	2,000
Cider-perry ..	1,200,000	21,000	5,000
		<hr/>	<hr/>
Total	19,425,000	410,000	115,000

In addition to the production on farms, there is a considerable output from cider and perry factories, estimated for 1907 at 2,708,000 gallons, of a value of £153,000, and increasing the total sales to £268,000.

CROPS UNDER GLASS.

While the Report states that "the great extension which has in recent years taken place in the cultivation of crops under glass has, of course, considerably increased the total output of the land," it confesses that complete statistics in respect thereto are not at present available. In regard, however, to the one item of tomatoes, the value of the crops included in 45 returns from 22 counties is put at £43,000. From the returns giving the extent of glass under which the crops are grown, it appears that on 20 acres an average of over 600 tons of tomatoes was cut, being an average yield of over 30 tons, valued at £830, per acre.

Next to tomatoes, cucumbers, grapes and chrysanthemums are most largely grown under glass. Other crops include strawberries, peaches, lettuces, radishes, beans, rhubarb and narcissi.

The returns in which the area of the glass and the value of the produce of all crops grown thereunder were shown give a total of 155 acres, with an output of £150,000, or £968 per acre.

ANIMALS.

In the department of live stock, the number and the value

of animals sold off the farms of Great Britain during 1908-9, were as follows :—

	NUMBER.	VALUE.
		£
Horses	53,000	1,590,000
Cattle and calves	2,130,000	27,264,000
Sheep and lambs	9,577,000	18,196,000
Pigs.. ..	4,419,000	14,362,000
Total	16,179,000	61,412,000

WOOL.

The total value of the wool produced in Great Britain in 1908 is estimated at, in round figures, £3,100,000.

DAIRY PRODUCE.

The quantities and values of dairy products sold by the farmers of Great Britain in 1908 are calculated as under :—

	QUANTITY.	VALUE.
		£
Milk, whole	850,000,000 gallons	24,820,000
Milk, skim	17,000,000 "	143,000
Cream	5,900,000 quarts	590,000
Butter	490,000 cwts.	2,940,000
Cheese	500,000 "	1,400,000
Total value.. ..		29,893,000

Here one sees by actual figures how the British farmer looks to gain, in regard to dairy produce, from the sale of whole milk, in regard to which foreign competition is a negligible quantity, rather than from butter and cheese, where the foreigner has a much better chance. It will be observed that although we imported in 1911 butter to the value of £24,600,000, British farmers sold, in 1908, whole milk of a still greater value, while as against their own 850,000,000 gallons in 1908, the total quantity of fresh milk imported into the United Kingdom in that year was only 10,460 gallons, though in 1911 the imports of fresh milk from France and Holland amounted to 120,000 gallons.

POULTRY AND EGGS.

Inasmuch as a very large quantity indeed, in the aggregate, of poultry must be kept by cottagers and town or suburban residents not coming within the scope of the official returns, statistics relating only to the number on farms of over an acre in size can give no adequate idea of the sum total of poultry in Great Britain. It may be, as the Report suggests, that the greater part of the less-than-one-acre production thus excluded is consumed by the poultry-keepers themselves ; but one of the essential objects of the co-operative poultry societies of to-day is to enable " small " as well as " large " poultry-keepers to market their surplus stocks to advantage.

Still, taking these inadequate official returns as they stand, one learns from them that the total value of the output of eggs and poultry from the over-one-acre holdings in Great Britain is estimated at about £5,000,000. To this figure must be added the value of the considerable supplies raised in Ireland. The home production, however, is still so far short of the demand that, as reference to the table already given will show, the value of the eggs imported into the United Kingdom in 1911 was nearly £8,000,000.

THE SITUATION IN BRIEF.

The final outcome of a comparison between food imports and home production is to show that, great as are the former in magnitude, they are still materially less than the food supplies we raise for ourselves.

This fact was well shown by Mr. R. H. Rew, C.B., one of the assistant secretaries of the Board of Agriculture, in a paper on " The Nation's Food Supply," which he read at the 1912 meeting of the British Association. Dividing home production from imports, deducting exports, and omitting sugar, tea, coffee and cocoa, for which there is no corresponding home production, Mr. Rew gave the following

figures in regard to items which may fairly be regarded as comparable :—

PRODUCE.	HOME PRODUCTION.	IMPORTED.
	£	£
Wheat, grain and flour ..	10,000,000	48,000,000
Meat	78,000,000	51,000,000
Poultry, eggs, rabbits and game	15,000,000	10,000,000
Fish	9,000,000	3,000,000
Dairy produce	42,000,000	35,000,000
Fruit	6,000,000	16,000,000
Vegetables	20,000,000	4,000,000
Totals	£180,000,000	£167,000,000

If the total value of the imports is deducted from that of the home production, there will be found a balance of £13,000,000 in favour of the latter ; but this balance would be substantially increased if there could be added to it the value of the home production on small holdings and gardens not included in the official returns.

While, therefore, the agricultural position in Great Britain to-day may still be discouraging for the gentleman farmer of the olden type, who finds it so difficult to compete with the wheat imports from other countries, the facts and figures here presented show that the situation still affords plenty of encouragement to working farmers, market gardeners, dairy farmers, live-stock breeders, and small holders producing other crops or other alternatives to wheat-growing.

As against restriction of opportunities in some directions there has, in fact, been a widening out of opportunities in others ; though the later developments have applied mainly to "smaller" types of producers, and that, too, under conditions which render especially desirable and necessary an ever-increasing resort in Great Britain, as in other countries, to agricultural organisation.

NEED FOR ORGANISATION.

Most of the fundamental reasons for agricultural organisation which apply to the countries of the world in general,

apply equally well to this country ; but there is here this further consideration,—that in improving their own agricultural position, and in extending the volume of their own output, many of these other countries—including most of those on the continent of Europe, together with Canada, Australia, South Africa and Argentina—are looking to British markets as a means of disposing of their own surplus production.

Thus the more that agricultural organisation spreads abroad, the more will foreign competition increase on our own markets, and the greater will be the need for the British farmer to defend his own interests by himself also resorting to the same principle.

This is not the place in which to discuss disputed questions in regard to protective duties. It might, nevertheless, be pointed out that, even assuming such duties should be imposed in the interests of British farmers, they might fail in their purpose unless, with the help of agricultural organisation, the British farmer secured, as far as possible, the same economic advantages as the foreigner had gained by that means, since the savings effected by the foreigner, together with his better system of marketing, might still enable him to compete successfully with our own growers when these were producing at greater cost and marketing under less satisfactory conditions.

The phases of agricultural organisation more especially called for in Great Britain are : (1) economic production ; (2) combination for transport ; and (3) scientific marketing.

PRODUCTION.

Apart from that question of credit which, as I have shown, formed the initial stage of the movement in Germany in the middle of the nineteenth century, the beginnings of agricultural organisation in general are to be found in combination for the purchase of agricultural necessities with a view both to economy in production and to a guarantee of good qualities.

Such need has more especially been found in regard to the purchase of artificial fertilisers.

The magnitude of the manufacturing industry to which the use of these now indispensable requisites in farming has led in Great Britain is suggested by the following figures for 1907, taken from the Board of Agriculture Report on the Agricultural Output :—

	TONS.	£
Basic slag	203,000	278,000
Superphosphates	603,000	1,320,000
Sulphate of ammonia	260,000	2,823,000
Other manures	492,000	2,250,000
Total	1,558,000	6,671,000

Imports of fertilisers into the United Kingdom in the same year amounted to a total of 296,000 tons, valued at £1,703,000. Deducting net exports from the home production, and omitting the figures for Ireland, the Board of Agriculture Report calculates that the value of the artificial fertilisers available for use on farms in Great Britain in 1907 was between £2,900,000 and £3,900,000.

The world's consumption of nitrate of soda in 1911 is shown by Messrs. W. Montgomery & Co., in a report on the fertiliser industry in that year, to have been 2,394,000 tons, as compared with 2,241,000 in 1910, an increase of 4·82 per cent. An analysis of the European consumption in 1911 as compared with 1910 gives the following figures :—

COUNTRY.	1911.	1910.	INCREASE.	DECREASE.
	Tons.	Tons.	Per cent.	Per cent.
United Kingdom ..	132,000	120,000	10	—
Germany	724,000	751,000	—	3½
France	332,000	320,000	3¾	—
Belgium	294,000	274,000	7¼	—
Holland	141,000	131,000	7½	—
Italian and Aus- trian ports ..	56,000	50,000	12	—

Manufactured feeding stuffs available for consumption in Great Britain in 1907, as given in the Board of Agriculture Report, are valued as follows :—

		£
Corn offals and feeding meals	..	15,500,000
Oilcakes and other feeding stuffs	..	7,500,000
Total	.. .. .	23,000,000

These figures sufficiently confirm what has already been said as to the results of advanced scientific methods of agriculture in leading to the creation of great industrial and commercial interests whose main concern in the agriculture on which they have flourished has naturally been, the particular extent to which the supply of its needs would tend to their own benefit.

Taking further into account what British farmers must pay in the course of a year for seeds, implements, machinery and other necessities, it will be found obviously to their advantage, as an ordinary business proposition, to resort to joint action in order (1) to buy wholesale instead of retail ; (2) to obtain effective guarantees of good quality ; and (3) to protect their own interests generally against powerful combinations on the part of manufacturers or middlemen traders.

All these things have a direct bearing on cost of production, and the same consideration is involved in the setting up of co-operative dairies, cheese factories, etc.

TRANSPORT.

In Great Britain, where agricultural production in general is on a smaller scale, and much of the home produce goes direct from the place of origin to the place of consumption, there is not the same opportunity for making up train-load lots as in countries which not only produce on a very large scale but regularly make up such lots for shipment to this country ; though it must be remembered that, while the foreign produce received here in these large quantities thus secures the lowest rates for transport, the material consideration is, not the amount they have paid for the journey from the port of arrival to (say) London (which amount forms part only of a through rate, and is influenced by bulk of consignment, packing, etc.), but the sum total of the charges for

their transport from point of despatch, the said total requiring to be covered by the market receipts before there can be any question of profit on the sale.

No one suggests that the rates for the transport of foreign produce should be raised in order, as it were, to "protect" the British farmer against the foreigner ; but there have been suggestions that the rates charged to the British farmer should be lowered.

To this it has been replied (1) that the railway companies cannot afford to charge the same rates for small consignments of produce, collected from wayside stations, inadequately packed, and involving a proportionately higher cost for transport, as they charge for large consignments carried under the most economical conditions from the point of view of working expenses ; (2) that these differences in charges do not constitute an *undue* preference ; and (3) that the railway companies already have on their books lower rates by which British producers can send if only they will, where necessary, combine their consignments so as to make up the specified lots in respect to which these lower rates are available.

Combination brought about through agricultural organisation should allow of greater advantage being taken of these existing opportunities, and also—when the facilities thus already available have been exhausted—place the associated producers in a better position to offer representations to the railway companies in regard to other matters on which they may desire to make their views known.

There is the more need for such combination for transport since in dealing with markets where competition—whether foreign or home—often reduces the chances of profit to a minimum, it may be of no less importance to secure the lowest possible railway rates than it is to effect all practicable economies in production.

SCIENTIFIC MARKETING.

Regarding agriculture in the light of a business enterprise, much—though not everything—must needs depend

on the prices obtained for the commodities sold on the market.

In the making up of the final accounts, undue cost either of production or of transport may nullify the profits that would otherwise have been obtained from market returns in themselves fair and reasonable; but assuming that, by means of combination, the growers have kept (1) cost of production and (2) cost of transport to a minimum, they may still have unsatisfactory returns if the market prices should be inadequate, or if there should be too many middlemen, each wanting his profit or commission. Left to their own resources, and acting as individuals, the producers may fail to grow the qualities suited to particular markets; they may err on the side of growing too many varieties of a certain commodity, and they may show such a deficiency of knowledge in picking, grading and packing that, notwithstanding their greater nearness to home markets, they will fail to overcome the competition thereon of foreigners who, thanks to effective organisation, send their commodities to us in a way more likely to secure the favour of purchasers.

These considerations especially apply to the fruit and market gardening industry, which, owing to the perishable nature of the commodities concerned, are in greater need of effective organisation than any other branch of agriculture or horticulture.

Under established conditions growers throughout the greater part of England generally attempt to solve the problem of marketing by consigning to one of three markets—London, Manchester or Liverpool; and, as the result of this practice, a glut may be brought about on any one of these markets, with the inevitable result of unsatisfactory prices, when but few supplies are going direct from the growers to numerous smaller markets the wants of which are catered for by middlemen dealers, who thus obtain profits which ought, rightly, to come into the pockets of the producers.

Scientific marketing thus means, in the first instance, improved methods of distribution.

MORE MARKETS WANTED.

' Writing on the subject of markets in its issue of March 30th, 1912, the *Flower, Fruit and Vegetable Trades Journal* said :—

With the increased acreage under cultivation, the fruit industry demands more and better markets in London and the provinces. It is absurd that in London alone there should be so few wholesale markets. Those existing are inadequate, shut in, and overcrowded, the worst case being that of Covent Garden Market. The time has come when there should be founded open markets in the inner circle of the London suburbs. Markets in such places would prove a great boon to suburban dealers and greengrocers, and also to those growers who at present have to send their vehicles right into the crowded heart of London. . . . Many more markets might well be established in the great industrial centres in the north.

MARKETING METHODS.

Whether, too, there be any glut on the leading markets or no, and whatever the market to which produce is consigned, there is the consideration that the individual grower is, in any case, generally at the mercy of the commission agent with whom he deals.

Our marketing methods were subjected to very severe criticism at a conference of fruit-growers in the Commonwealth of Australia held at Hobart, Tasmania, in October, 1911. One speaker, Mr. W. D. Peacock, whose firm, he said, had exported in a year 196,000 cases of their own, apart from consignments on commission, gave an account of his experiences in England, saying, among other things :—

The trouble in London was that there were so many people receiving fruit, and so many putting it on the market at the same time. There was no co-operation in any shape or form. With regard to Covent Garden itself, it was a commercial disgrace. There was really no system there, and it was an absolute impossibility for any man to follow his fruit through there and know exactly what he made. There was no system and many of the brokers kept no books. . . . All through he had not the slightest doubt he was being got at, on Covent Garden, and he had no doubt he was being got at now.

In discussing marketing methods in general, and in pointing more especially to the want of an outlet of such a nature

as to ensure that honest and best returns will be received for the produce sent to market, an organiser of the Agricultural Organisation Society reports :—

I know instances of men posing as commission agents who are not on a level from the point of view of honesty with the ordinary hawker, though to judge by their beautifully-got-up letter-paper one would really think they were men of great importance and thoroughly to be relied upon. In one case that I know of a grower sent £40 worth of goods to a man of this type, and has not yet received a single penny. Another salesman had a ton of fruit sent to him, and after a good deal of writing the grower obtained £4, though the current market price was £18. These are not the worst cases I know of ; I could give scores of others.

If, instead of consigning to distant markets, the grower disposes of his produce to a higgler who comes to his door, to an agent who buys the crop as it stands, or to a dealer in the market of the neighbouring town, he may still receive less than he might obtain through an agricultural co-operative society specially organised for the purposes of sale, while the said society would save him the time he would otherwise have to devote either to going to market or in hawking round his produce in his own neighbourhood, thus enabling him to devote more attention to his proper work of production.

UTILISATION OF SURPLUS STOCKS.

In addition to more markets and improved marketing methods, there is a great need in England for some organised system under which, in times of over-production, surplus stocks can be kept back from markets already over-supplied and on which they would only lead to a lowering of prices all round, and be converted, instead, into bottled fruits, dried vegetables or other saleable commodities on which, apart from the consideration just suggested, additional profits might be made. The same course should be adopted in regard to lower grades of produce which would equally prejudice the market prices but might well be used for these other useful and remunerative purposes.

THE "BACK TO THE LAND" MOVEMENT.

Various schemes in regard to the conditions under which land should be held by cultivators in this country are now under discussion, and the problem of tenancy (whether under private or public authorities) *versus* peasant proprietary is engaging considerable attention.

Here, however, we are concerned only in the fact that, whether the producers settled, or about to settle, on the land are owners or only tenants of their holdings, it will be equally necessary that they should be enabled to raise, consign and market their produce under the most favourable conditions; and, speaking generally, it will be impossible for them to do this without the help of co-operation.

Much has been heard about settling more people on the land through the action of the State. If the people so settled propose to do no more than raise supplies for their own consumption they may do so with complete success. If they propose to raise supplies for sale, and if, in doing this, they remain individual units, each paying an unduly high price for his necessaries, consigning otherwise than at the lowest railway rates, and selling under such conditions that the chances will be all against him, then the result of the State experiment may be little less than a complete failure.

SHORTCOMINGS OF STATE AID.

In addition to encouraging more people to settle on the land the State has at different times given much active support to agricultural research with a view to increasing and improving production; but increased production for sale is not of much use without adequate opportunities for successful distribution of the commodities produced, and here the action of the State has stopped short.

It may well be said that marketing is not the work of the State, and that there would be difficulties in the way of the State undertaking it. But the shortcomings of State action in this respect can well be made good by the efforts of an independent organising body, able to act without the dis-

advantages that would needs arise when the State sought to deal with questions as to the business relations between producers, dealers and consumers.

Agricultural organisation is thus not superseding, but supplementing, State action. It is simply the logical, though indispensable, sequel thereto.

RURAL HOUSING.

Another subject which has attracted considerable attention of late is that of rural housing.

There are not sufficient cottages in the country districts, and one of the principal reasons why more are not built is that labourers cannot afford to pay the rents which would have to be paid to ensure a reasonable return on construction—and especially on the construction of the superior type of cottages that may alone be built under what are declared to be unduly exacting rural bye-laws.

The alternative would seem to rest between (1) an alteration in the bye-laws, so as to allow of cheaper cottages; and (2) the payment of higher wages which would permit, in turn, of higher rents. The adoption of the former remedy may be hoped for in course of time; that of the latter is objected to by the farmers on the ground that they cannot afford to pay higher wages.

If, however, by means of agricultural co-operation, the farmers are enabled to effect material savings in production and on transport, and, at the same time, secure a better return from sales, they should then be well able to give the higher wages which would enable their labourers to pay reasonable rents for decent cottages.

CREDIT.

Many, if not most, of the arguments advanced in favour of the fundamental principles of agricultural credit, as adopted in Germany, Denmark and other foreign countries, apply with equal force to Great Britain, and they do so with this additional consideration as regards ourselves—that here the agriculturist's opportunity of securing credit through the

local joint-stock bank is decreasing owing to the tendency for such local banks to be acquired by and amalgamated with great banking concerns in London which operate them more from the point of view of London City, or international, finance, and have a less intimate knowledge of, and a less sympathetic feeling towards, the farmer and his needs than the private bankers whose place they are taking.

In Great Britain, therefore, further facilities are wanted, not alone for small holders, but for large sections of farmers as well ; and once more we find good reason why Great Britain, no less than the other countries of the world, should have an efficient scheme of agricultural organisation.

CHAPTER IV.

THE MOVEMENT IN IRELAND.

It was in Ireland that, thanks mainly to the practical patriotism and untiring zeal and devotion of Sir Horace Plunkett, the principle of agricultural co-operation was first established in the United Kingdom.

Ireland had suffered no less than other countries from the various conditions affecting agriculture in Europe generally of which I have already spoken, besides having difficulties and disadvantages essentially her own ; and, struck by the state of things he saw around him in Ireland on his return from a prolonged residence in the United States, Sir Horace (then Mr.) Plunkett conceived the idea, in 1889, of taking action with a view to bringing about an economic improvement in Irish conditions on the lines of combined action.

At that time agricultural co-operation was, of course, far less developed in European countries than is the case to-day, and the only precedent which Sir Horace was then able to find for the New Movement he proposed to start was the one furnished by the Co-operative Movement in England, which, however, originally founded by the Rochdale Pioneers, was mainly concerned in the creation of consumers' societies for the supply of household or other requisites. So, in company with Lord Monteagle and Mr. R. A. Anderson, his first two associates in the campaign on which he started, Sir Horace became a regular attendant at the congresses of the Co-operative Union in England and a no less persistent seeker for information at the headquarters of the Union in Manchester. From such champions of co-operation as Vansittart Neale, Tom Hughes and George Holyoake much sympathy and encouragement were received. An Irish section was set up by the Co-operative Union which, also, contributed to

the initial expenses of the propaganda, and from 1889 to 1894 the "New Movement" in Ireland was little more than a reproduction of what was then an old movement in England.

Experience soon convinced Sir Horace that the regeneration of Ireland's economic condition was not to be brought about by the establishment of co-operative stores alone, and that advancement of the agricultural interests on which that country depended in so material a degree should be sought chiefly by an adoption of the principle of co-operation in production, more especially in regard to those butter supplies to the provision of which the agricultural and climatic conditions of Ireland were especially adapted. In this way there was evolved by Sir Horace Plunkett a scheme for the creation of co-operative dairies in Ireland some time before he learned that such dairies were then already an established institution in Denmark.

In 1893 the English Co-operative Wholesale Society began to start creameries of its own in Ireland. "In the profits and management of these concerns," as Sir Horace said, when addressing the Economic Society of Newcastle-on-Tyne on October 27th, 1898, "farmers had no share. This was so diametrically opposed to the principles of co-operation, as we understood them, that the two movements became independent of each other."

In April, 1894, the movement for agricultural co-operation had so far expanded—although the number of local dairy societies was still comparatively small—that a new organisation, under the title of the Irish Agricultural Organisation Society, and looked upon as "the analogue of the Co-operative Union in England," was formed to carry on a work of promotion and supervision which had become, as Sir Horace told, "too onerous and costly for a few individuals to bear." Men of all creeds and parties joined it, and undertook to supply funds for what was regarded as a five years' experiment, though one which, as the result proved, was to be so successful that the Society became established on a permanent basis.

Apart from the initial idea in regard to co-operative stores, agricultural co-operation in Ireland had thus resolved itself at the outset into an application of the co-operative principle to the dairying industry. On this point Sir Horace further said, in his address to the Newcastle-on-Tyne Economic Society :—

We selected for our first essay the dairying districts of the South for several reasons. If we had begun in the more advanced parts of Ireland, while failure would have been fatal, success would not have carried conviction as to the applicability of our scheme elsewhere. Moreover, the dairying industry was just then undergoing a complete revolution. The market was demanding, in butter as in other commodities, large regular consignments of uniform quality. The separator and other newly-invented machinery were required to fulfil these conditions. The factory system was superseding home production, and the only way in which farmers could avail themselves of the advantages of the new appliances which science had invented, but which were too costly for individual ownership, was by combining together to erect central creameries, to own and work their machinery themselves at their own risk and for their own profit. No better advice could just then be given to the Irish farmers than that they should follow where the Danish farmers had led.

The difficulties of the task, however, were formidable in the extreme. It was far from sufficient to convince the farmers of the economic advantages of co-operative action. The real difficulty began with an attempt to clear their minds, not only of suspicions of sinister motives on the part of their advisers, but also of their innate distrust both of one another and even of themselves, and the chances of success appeared to be entirely against the pioneers of the movement. On this point Sir Horace Plunkett observed in his Newcastle address :—

The superior persons who criticised our first endeavours at organising dairy farmers told us that the Irish can conspire but cannot combine; the voluntary association for humdrum business purposes, devoid of some religious or political incentive, was alien to the Celtic temperament, and that we should wear ourselves out crying in the wilderness. Economists assured us that, even if we ever succeeded in getting farmers to embark in the enterprise, financial disaster would be the inevitable result of the insane attempt to substitute, in a highly technical

manufacture, democratic management for one-man control. We admitted the force of these objections, but having an unbounded faith in the latent capacities of our countrymen, and knowing that success in this first application to a great national industry of organised self-help would open up prospects of amelioration in every department of Irish agricultural life, we determined to persevere until practical demonstration had proved us right or wrong.

Fifty meetings were attended by Sir Horace Plunkett before a single co-operative creamery had resulted therefrom, and nearly two years elapsed before a second was formed. For a long time he found the work of organising a wearisome business. On one occasion his audience consisted of the dispensary doctor, the village schoolmaster and the local sergeant of police. In some reminiscences of those days, published in the *Irish Homestead*, Mr. Anderson (who sometimes accompanied Sir Horace and sometimes held meetings of his own) wrote :—

It was hard and thankless work. There was the apathy of the people and the active opposition of the Press and the politicians. It would be hard to say now whether the abuse of the Conservative *Cork Constitution* or that of the Nationalist *Eagle* of Skibbereen was the louder. We were "killing the calves," we were "forcing the young women to emigrate," we were "destroying the industry." Mr. (Sir Horace) Plunkett was described as a "monster in human shape," and was adjured to "cease his hellish work." I was described as his "Man Friday" and as "Roughrider Anderson." Once when I thought I had planted a creamery within the precincts of the town of Rathkeale, my co-operative apple-cart was upset by a local solicitor, who, having elicited the fact that our movement recognised neither political nor religious differences, that the Unionist-Protestant cow was as dear to us as her Nationalist-Catholic sister, gravely informed me that our programme would not suit Rathkeale. "Rathkeale," said he, pompously, "is a Nationalist town—Nationalist to the backbone—and every pound of butter made in this creamery must be made on Nationalist principles, or it shan't be made at all." This sentiment was applauded loudly, and the proceedings terminated.

On another occasion, mentioned by Sir Horace in his book, "Ireland in the New Century," a project for the conversion of a disused mill into a creamery had to be abandoned because the stream of water connected with the mill passed

through a conduit lined with cement originally purchased from a person who occupied a farm from which another man had been evicted.

These early difficulties were overcome in course of time, and the new Society not only gained greater support, but was enabled to broaden out its sphere of operations and take up other important branches of agricultural co-operative action besides the co-operative dairies, and notably so in regard to the formation of agricultural credit societies, which were to render an invaluable service in providing Irish cultivators with a ready means of obtaining small sums for reproductive purposes without having to submit to the merciless exactions of the "gombeen man" or other local moneylender or trader.

Expansion of the Society's activities followed more especially on the proceedings of a committee of representative men of all parties which Sir Horace Plunkett was the means of constituting in the Parliamentary recess of 1895 (hence known as "The Recess Committee"), to consider what measures could best be adopted to promote the development of agriculture and industries in Ireland. The Committee caused inquiries to be made in Continental countries as to the methods by which Ireland's chief foreign rivals had been enabled to compete successfully with Irish producers even in their own markets, and a report on this subject was issued in August, 1896, accompanied by a recommendation that there should be created a Department which, adequately endowed by the Treasury, and having a president directly responsible to Parliament, would administer State aid both to agriculture and to industries in Ireland upon certain specified principles. This recommendation was based on what had been found to be a policy adopted in certain Continental countries, while the proposal to amalgamate agriculture and industries under one Department was, as Sir Horace Plunkett explains in "Ireland in the New Century," "adopted largely on account of the opinion expressed by M. Tisserand, late Director-General of Agriculture in France, one of the highest authorities in Europe upon the administration of State aid to agriculture."

A Department of Agriculture and Technical Instruction was duly created under the authority of an Act of Parliament passed in 1899, and the organisation of this Department included, in turn, a Council of Agriculture and two Boards of which one was concerned with agriculture and inland fisheries and the other with technical instruction. The Department relieved the Society of the cost of a considerable amount of the technical instruction it had previously given as a necessary adjunct to the work of organisation, to which it was now enabled completely to devote itself, and further agreed to defray the expenses of the I. A. O. S. in organising and supervising agricultural credit societies and subsequently also certain other kinds of societies. The grant in respect to these expenses for the year ending February 28th, 1906, amounted to £2,000. There then came into force a new arrangement under which a grant was made to the general expenses of the Society on the basis of its income from voluntary sources, though the amount to be given was in no case to exceed £3,700. This arrangement lasted only until the end of 1908, when the Department ceased to give a grant to the Society, which, however, still continues to receive a small grant from the Congested Districts Board, fixed in that year at £350 per annum. To the question of grants from the Development Fund to the Irish Agricultural Organisation Society reference will be made in the chapter that follows.

The present position of agricultural organisation in Ireland is shown approximately by the following table, taken from the report of the Irish Agricultural Organisation Society for the year ending June 30th, 1911 :—

—	Number of Societies.	Member- ship.	Paid-up Share Capital.	Loan Capital.	Turnover.
Dairy societies ..	312	44,792	£ 144,251	£ 120,358	£ 1,999,313
Auxiliary societies not separately registered	79				—
Agricultural societies	165	16,743	6,681	36,545	124,720
Credit societies ..	237	19,190	—	55,884	55,855

—	Number of Societies.	Member- ship.	Paid-up Share Capital.	Loan Capital.	Turnover.
Poultry societies ..	18	6,188	£ 2,176	£ 3,007	£ 61,213
Home industries societies.. ..	20	1,376	1,260	708	4,815
Miscellaneous (including bacon-curing societies) and bee-keepers	38	5,382	15,337	5,706	59,888
Flax societies ..	9	594	513	4,323	2,849
Federations ..	2	247	7,606	13,479	280,906
	880	94,512	177,824	240,010	2,589,559

These figures, however, are not complete, inasmuch as particulars of membership were not obtainable from 21 creameries, 15 agricultural societies, 26 credit societies, 1 poultry society and 8 miscellaneous societies; and particulars of turnover were not obtainable from 18 creameries, 31 agricultural societies, 57 credit societies, 5 poultry societies, 13 home industries societies, 4 flax societies, and 30 miscellaneous societies. The societies failing to furnish statistics include new societies, societies not carrying out any operations during the year, etc.

Since the Society started, the total turnover has been close on £22,000,000, included in this figure being £16,316,000 on account of butter sales, and £412,000, the total amount of loans granted by credit societies. On its work the Society has spent, altogether, over £100,000; but it is estimated that on the co-operative creameries alone the additional gain through the organisation is now £400,000 a year.

It will be seen that the leading position in regard to agricultural organisation in Ireland is still occupied by the co-operative creameries, the success of which, indeed, had led capitalists to set up proprietary creameries on their own account, so that already in 1907 the Irish Agricultural Organisation Society was able to report that the available

ground for dairies had been almost completely covered by those of the one type or the other.¹

Apart from the difficulties presented by what may be called the "human factor," the founders of the co-operative dairies had much trouble, more especially at first, in obtaining efficient managers. Then it was necessary to ensure the provision of adequate machinery, notably so in the case of pasteurising plant; much guidance was needed by some of the societies in regard to the keeping of the creamery accounts; strict cleanliness in handling the milk had to be vigorously insisted upon, and then when the creameries had been established, were working satisfactorily, and were producing large quantities of butter of the right quality, there came the further question of marketing on such lines as would ensure the best returns. With a view to overcoming this final difficulty, there was formed in 1892 an Irish Co-operative Agency Society, Ltd., to assist the co-operative creameries in marketing their butter.

The main feature in connection with the Irish co-operative agricultural societies for the supply of requirements is the extent to which they carry on their trade through the federated body known as the Irish Agricultural Wholesale Society, Ltd. One of the first achievements of this organisation was the breaking up of a "ring" of artificial manure manufacturers, with the result that prices were reduced by about 20 per cent. The "ring" was afterwards re-formed, and the Wholesale Society had a renewal of the same difficulties for a time; but these were eventually overcome. Trouble was, however, still experienced in regard to the implement manufacturers. In the sale of seeds of guaranteed purity at the lowest prices the Agricultural Wholesale Society has rendered good service to the Irish farmers. The greater part of co-operative trade in agricultural requirements in Ireland is, in fact, done through the Society, which has depots in Dublin, Belfast, Sligo, Foynes, Thurles,

¹ The position in Ireland in this respect compares strongly with that in England, where the principle of co-operative dairies has undergone but comparatively little development because of the greater advantage derived by the farmer from sending his milk to the towns.

Cahirciveen, Cork and Waterford, and agents in the principal cities in Great Britain for the marketing of eggs, honey, etc. It also has a Banking Department which grants loans to trading societies experiencing difficulty in arranging for financial accommodation. The progress which has been made by the affiliated societies since 1906 is shown by the following table :—

YEAR	..	.. SOCIETIES.	..	..	SALES.	..
					£	"
1906	..	79	..	..	54,092	
1907	..	79	..	..	65,637	
1908	..	91	..	..	73,153	
1909	..	105	..	..	104,326	
1910	..	118	..	..	123,508	
1911	..	138	..	..	132,929	

Credit societies play a still more important rôle, perhaps, in Irish agricultural organisation to-day than the creameries which preceded them in order of establishment. Ireland is better adapted than Great Britain for a widespread system of credit societies on the Raiffeisen model by reason of the fact that the peasantry there are on a more equal, and, financially, somewhat lower, footing than is the case with our own more diversified classes of agriculturists. Aided alike by advances from the Department of Agriculture and the Congested Districts Board and by generous treatment at the hands of the joint-stock banks, the credit societies have conferred very great advantages on the Irish peasantry, and not on them alone but, also, on the farmers in a higher social position who have, in turn, resorted to the same principle.

Action has also been taken in various directions to promote the co-operative sale of produce; though here there is a good deal of scope left in Ireland for further activity; the poultry and egg industry has been more successful when carried on by societies established for general trading purposes than by societies devoting themselves exclusively to this business, while the home industries societies have been an especially interesting development of organised effort in Ireland.

While the table given on pp. 79—80 is, notwithstanding its incompleteness, sufficiently suggestive of important economic benefits gained by the Irish people as the result of agricultural organisation, the moral results have been no less remarkable than the material results.

The Irish peasant has been not only saved by his credit societies from the merciless grip of the "gombeen man," but he has had instilled into his mind the principle of self-help through mutual help; he has been taught by the same credit societies the commercial value of a good name; he has learned to sink distrust and suspicion of his neighbour and adopt, instead, a spirit of comradeship towards him; he can lay aside religious and political differences in order to discuss with those around him matters concerning their common welfare, and he is being subjected to important educational influences, either through the village libraries that are being set up, or through the instruction in improved methods he gets from organisers or other experts.

Then the social gatherings—dances, concerts, lectures and entertainments—organised by his co-operative agricultural societies, whether in the village halls specially provided by them or otherwise, are bringing fresh life into many an out-of-the-way place where great need for it had hitherto existed.

So the New Movement has not only enabled the Irish peasantry to conduct their farming operations on improved lines but it has, from the point of view of what may be called its "human aspect," created in them a New Spirit which is, at the same time, making them better men and women, and giving them a New Outlook on life in general.

The experiences of societies affiliated to the Irish Agricultural Organisation Society and, also, the point of view from which their members regard the work that is being carried on, may be illustrated from the following typical examples, taken from a pamphlet issued in 1911 under the title "Agricultural Co-operation in Ireland: A Plea for Justice by the I.A.O.S." :—

"It is impossible to estimate the amount of good done and the benefits conferred on the farmers of this district since the society

was established by the I.A.O.S. The fields or the farms of members of the society are, as it were, miraculously changed in appearance in root, grain, and hay crops, and particularly in the pasture that follows. This arises solely from the use of pure seeds and highly classed artificial manures, these things having been obtained hitherto from publicans and grocers, who have no knowledge of seeds or manures; neither knowing how or where to purchase, they themselves the victims of low-classed artificial manure manufacturers and indiscriminate seed-vendors."—Jonesboro' Co-operative Agricultural Society, Co. Armagh.

"The co-operative movement has saved at least 30 per cent. to the farmers of this district in the purchase of artificial manures and other agricultural requirements."—Cam Co-operative Agricultural Society, Co. Roscommon.

"We made a profit on our trading during the first two years of £220, and during that time saved £400 to our neighbours in the price paid for cakes, coal, twine, manures and seeds, etc., besides giving them better quality than they were getting when paying higher prices."—Castledermot Co-operative Agricultural Society, Co. Kildare.

"The I.A.O.S., by teaching the farmers to combine for business purposes, has benefited the district to the extent of, approximately, £700 a year, not to speak of the social advantages, which are incalculable."—Tisara Co-operative Agricultural Society, Co. Roscommon.

"We can now purchase through our own society as much in the way of farm implements, seeds, manures, spraying material and general requirements, of a far superior quality, for 16s., as we could hitherto buy of inferior goods for 20s. In the sale of eggs we now receive 16s. for the same quantity which we used to sell for 12s."—Inniskeel Co-operative Agricultural Society, Co. Donegal.

"On the trade of £20,000 which we expect to do this year the members will be benefited to the extent of at least £2,500, and probably much more, as compared with the results that would be obtained by each member selling his farm produce and buying his requirements without the assistance which the society affords."—Achonry Co-operative Agricultural and Dairy Society, Co. Sligo.

"The members have benefited to the extent of 20 per cent. on their turnover, which is £4,000 per annum. This has come about by the raising of the price of milk by 1d. per gallon in a few years, not to speak of the good done by showing the farmers of the district what they can achieve by co-operation in other industries."—Galteemore Co-operative Agricultural and Dairy Society, Co. Tipperary.

"During our thirteen years working . . . our suppliers have benefited to the extent of £19,000 by adopting the co-operative creamery system of butter-making in preference to

the old disorganised system of every man for himself."—Boyle Co-operative Agricultural and Dairy Society, Co. Roscommon.

"Education of various kinds has been spread, the value of union and fraternity has been demonstrated, the suitability of a good strain of milching cows and the proper method of feeding housing, etc., to provide a big milk supply, have been proved. The farmers' income has been increased by increasing his receipts per cow, whilst his expenses in marketing his produce have been diminished."—Glenmore Co-operative Dairy Society, Co. Kilkenny.

"The work of the I.A.O.S. in this district has been beneficial in so far that it has released its members from the grip of the auctioneer and professional moneylender who, as a rule, exact from their unfortunate customers from 15 to 20 per cent. interest, while the I.A.O.S. obliges these with ready cash at the modest charge of 5 per cent."—Cullamore Credit Society, Co. Tyrone.

"Since the introduction, in 1907, of this form of credit by the I.A.O.S. into this district, it has effected a saving of at least £1,000 to the 200 farmers who comprise the society."—Culumbkille Credit Bank, Co. Longford.

"A farmer in the district got a loan, part of which (£1 10s.) he used in purchasing an old cow. To-day he owns seven or eight good cattle. To value at its true worth this little Bank one should interview the borrowers, who will explain, with natural pride, the help the I.A.O.S. has conferred upon them."—Derrylohan Agricultural Bank, Co. Mayo.

"Immense benefit has resulted to the whole neighbourhood from the introduction of this lace industry in bringing in thousands of pounds, and enabling the people, who formerly were without means to do so, to improve their dwellings and the general conditions of life."—Ballysakeery Co-operative Home Industries Society, Co. Mayo.

"The I.A.O.S. has imbued the farmers with a spirit of self-confidence, of pushfulness and enterprise, of order and method, as well individually as collectively."—Hollyford Co-operative Agricultural and Dairy Society, Co. Tipperary.

"Since the establishment of our society the farmers of the district are taking a keener and more business view of agricultural matters than formerly."—Devon Road Co-operative Creamery, Co. Limerick.

"The work of the County Committee has been made smooth and effective in our district, as the County Instructor found an organised body of farmers prepared and anxious to receive instruction."—Glenlough Agricultural Society, Co. Longford.

"In our committee we have Orangemen and the other extremists, who have learned to trust one another and work together for their common good. An improved feeling between all creeds and classes exists in this locality, attributable in a large

degree to lessons they have learned by co-operation."—Whealt Co-operative and Dairy Society, Co. Fermanagh.

"Our beautiful co-operative hall stands proudly as an example of what can be attained by organised co-operative effort."—Cushinstown Agricultural Bank, Co. Wexford.

"Besides teaching how to combine for their mutual financial betterment, the I.A.O.S. has had much to do with the visible social betterment of our rural community."—Enniscorthy Co-operative Agricultural Society, Co. Wexford.

"The work of the I.A.O.S. has created a new era of prosperity for the many farmers in this district."—Athlone Co-operative, Poultry and Farm Produce Society, Co. Westmeath.

"Our society, which was organised by the I.A.O.S., has been of far greater benefit to the poor congest of this district than any Government Board has been for the last fifty years, although some of these Boards have spent thousands of pounds of public money here."—Templecrone Co-operative Society, Co. Donegal.

Still wider possibilities in the development of all this good work are being opened out by the establishment in Dublin of "The Plunkett House," in which the work is now carried on. It is the outcome of a movement set on foot in 1908 for presenting to Sir Horace Plunkett a testimonial in recognition of his services to agricultural organisation in Ireland, the substantial amount raised being, at the request of Sir Horace, devoted to the purchase of a large house which would serve as a headquarters for the study of rural sociology in addition to providing accommodation for the staff of the Irish Agricultural Organisation Society. A scheme for "A Country Life Institute: A suggested Irish-American Contribution to Rural Progress," was put forward in 1909 by Sir Horace, in a Plunkett House pamphlet issued under this title. The aim of the Institute is therein stated to be:—

"To advance the well-being of the large and scattered agricultural population by bringing together information as to the progress of rural communities, by encouraging the scientific study and investigation of the conditions which contribute to their social and economic advancement, and by spreading knowledge and stimulating public opinion on the vital importance of a strong farming and rural community to the maintenance of the National life as a whole."

Sir Horace Plunkett's schemes include, in fact, not only the spread of agricultural organisation in Ireland, but a comprehensive reconstruction of rural life in its various phases with a view to retaining people on the soil, and to rendering existence in the country districts at once more pleasurable and more profitable. It was his ideas on this subject that inspired those views thereon of Mr. Roosevelt of which mention is made on pp. 45—46

There has now, also, been established in Ireland an organisation known as "The United Irishwomen," which, operating in affiliation with the Irish Agricultural Organisation Society, is to supplement the activities of the sterner sex, and operate on lines akin to those of the hundreds of Women's Institutes at work in Canada, devoting its own energies more especially to (1) agriculture and industries; (2) domestic economy; and (3) social and intellectual development. It is felt that in all three departments there is much that women could do for the betterment of rural conditions in general, and the scheme in question, first started by Mrs. Harold Lett, at Bree, co. Wexford, on June 15th, 1910, has since developed into a central union and branches under the control of an executive committee meeting in Dublin. Details concerning this most interesting movement will be found in a sixpenny pamphlet on "The United Irishwomen: Their Place, Work and Ideals," published by Maunsel & Co., Dublin.

CHAPTER V.

EVOLUTION OF THE AGRICULTURAL ORGANISATION SOCIETY.

A.—EARLIER EFFORTS.

So far as can be ascertained, the initial effort in the direction of bringing about a general resort in Great Britain to agricultural organisation, on co-operative as distinct from commercial lines, was made by the Council of the Central and Associated Chambers of Agriculture, which, on December 9th, 1891, appointed a Committee "to consider and report by what means the organisation of the Chambers could be utilised so as to promote the co-operative principle for the benefit of all its members in the purchase of farming requisites." This Committee, of which Mr. W. Lipscomb was the chairman and Mr. R. H. Rew was secretary, presented, on January 31st, 1893, a report which was adopted by the Council and circulated among the associated Chambers. The "conclusions" given in the report are of some interest as showing the point of view from which the subject of agricultural co-operation was regarded at that date. They were as follows :—

Your Committee, having regard to the opinions expressed by Mr. Greening and Mr. Martyn, and to other facts which have been laid before them, do not consider that any scheme taking the whole country for its area, and directed from one centre, could be usefully adopted, but that the several districts of the associated Chambers and Clubs throughout the kingdom would in most cases provide suitable areas for co-operation.

Your Committee desire to call attention to the fact that there are already existing in some localities agricultural co-operative associations which might be utilised, and where such do not exist your Committee have been given to understand that the Agricultural and Horticultural Association would be prepared to accept the single subscription of the secretary of an associated Chamber

or Club to enable all the members to secure the benefits of membership of that Association.

Your Committee are of opinion that the basis of "Cash with Order" is essential to the success of any scheme for co-operative purchase, and that an annual subscription per member of 5s. is all that is needed. The articles in regard to which co-operative purchase can be most advantageously adopted are manures, feeding stuffs, seeds and implements.

Your Committee have been strongly impressed by the information laid before them, with the advantages which may accrue to farmers by the adoption of the principle of co-operation. It is evident that with careful management the risk of failure is small, as is proved by the fact that, so far as they have been informed, no agricultural co-operative association formed for the purpose of purchasing farming requisites has failed. Your Committee, therefore, very strongly urge the consideration of this subject on the members of the Central and Associated Chambers of Agriculture, in the belief that not only might articles of guaranteed quality be procured at prices less than individual purchasers can as a rule be charged, but that by incorporating this object among the primary functions of farmers' associations an incentive to combination will be provided, and a greater union of the agricultural community will be secured.

Your Committee recommend that they be re-appointed, so as to enable them to give further consideration to the subject when the views of associated bodies have been more fully expressed. They are further of opinion that, if successful in the establishment of co-operative associations for the purposes of purchase, such organisations would almost certainly conduce to their utilisation for purposes of sale, especially of those products for which the price now paid by the consumer is so strikingly in advance of that received by the farmer.

These recommendations attracted some degree of attention among the Associated Chambers and Farmers' Clubs, but the Committee was not re-appointed, and the matter remained practically in abeyance, as far as the Central Chamber was concerned, until March 3rd, 1896, when, as will be shown later on, further action was taken. Meanwhile there had been important developments in other directions.

NATIONAL AGRICULTURAL UNION.

On December 7th, 1892, there was held in St. James' Hall, Piccadilly, a "National Agricultural Conference" which was described in *The Times* as the outcome of "perhaps the

most striking movement in the world of agriculture which has taken place in our time."

About two months earlier the Lancashire Federation of Farmers' Associations had suggested to the Central Chamber of Agriculture that a national conference should be held in London to consider the subject of the then seriously depressed condition of agriculture. The Central Chamber sent out a circular on the subject to its affiliated organisations, and "never did an idea catch on," *The Times* further declared, "with greater spontaneity; never did a movement of the kind take such wide and general root in so short a time." An organising committee was formed, of which Mr. R. H. Rew, who was then associated with the Central Chamber, was appointed secretary, and the conference was held, on the dates mentioned, "(1) to direct public attention to the present grave conditions of agricultural affairs, and (2) to ventilate the grievances under which agriculture labours, and to consider suggestions for their removal." No fewer than 240 societies, clubs or organisations interested in agriculture, directly or indirectly, sent representatives; peers, M.P.'s and great landowners, either as delegates or because of their occupying distinguished positions in the agricultural world, attended to take part with farmers and agricultural labourers in considering how a national problem could best be solved; and a gathering of about 2,000 persons would have been larger still if more could have been accommodated.

Various remedies for the "sore straits" into which, in the view of the conference, agriculture had fallen were urged, these remedies including currency reform, relief in regard to taxation, changes in land tenure, etc.; but a resort to Protection, in order to counteract foreign competition, was the proposal that evoked the greatest degree of enthusiasm. A resolution in favour of imposing on foreign imports "a duty not less than the rates and taxes levied on home production" was met by an amendment, proposed by Mr. Bear, and seconded by Mr. Yerburch, M.P., declaring that, as it was of paramount importance that the agricultural

classes represented at the conference should present an undivided front to the country, it was desirable that discussions on questions which, like Protection, were certain to cause strong division among those classes, should be deferred, and that those questions in respect of which agriculturists were practically unanimous should be pressed forward instead. The amendment was, however, defeated by a large majority, and the carrying of the Protection resolution was greeted with loud cheers. Another of the resolutions passed by the conference endorsed the principle of Bimetalism. Still another, proposed by Lord Winchilsea, was as follows :—

“ That, in view of the present crisis, it is imperative forthwith to establish an Agricultural Union, composed of all persons of different classes who are interested in the land of the United Kingdom, in order (1) to give effect to such resolutions as may be passed by this conference; (2) to frame such measures as may *from time to time be needful in the agricultural interest*; (3) to organise its members into a compact body of voters in every constituency pledged to return without distinction of party those candidates agreeing to support such measures; (4) to promote the co-operation of all connected with the land, whether owners, occupiers or labourers, *for the common good.*”

If, said Lord Winchilsea, in proposing his resolution, the agricultural interest were organised in the way he advocated, he believed they would be able to return a member for every county constituency in the United Kingdom.

The formation of a National Agricultural Union on the lines advocated by Lord Winchilsea was the one practical outcome of this altogether unique National Agricultural Conference, the story of which deserves to be now recalled because it shows so clearly what were the ideas then prevalent as to the way in which agricultural conditions could best be met; though a leading article in *The Times* of December 8th warned the conference that it was “ not by such means ” as Protection and Bimetalism that the British agricultural classes could hope to recover any portion of their prosperity, saying, further :—

They are confronted with a great economic crisis largely

brought about by causes quite beyond their own control. They are in a situation not unlike that which visits the commercial community when some great change in the traditional course of business has brought loss, and, it may be, ruin to hundreds through no fault or error of theirs. In such cases men of intelligence and resource recognise that there is only one way by which they can hope to recover any part of their former welfare. They acknowledge that the change is due to the operation of economic principles; they study those principles and set to work to readjust their business as speedily and as completely as possible to the novel conditions which regulate its course. The Agricultural Conference unhappily seems to have made up its mind to defy the recognised laws of economic science instead of endeavouring to adapt their farming methods to them.

Some years were to elapse before this alternative policy of action based on sound economic principles was adopted, and in the meantime active efforts were made by Lord Winchilsea and his supporters to gain wide-spread adhesion to the National Agricultural Union, the specific objects of which comprised the following items:—

1. Reduction in local taxation of agricultural property.
2. Abolition of preferential railway rates on foreign to the prejudice of British produce.
3. Old age pensions.
4. Amendment of the law relating to the adulteration of food and the Merchandise Marks Act.
5. Amendment of the Agricultural Holdings Act.
6. Increased facilities for the obtaining of small holdings.

This programme was accepted by 230 members of the then new Parliament, in which Lord Rosebery was Premier, and Lord Winchilsea realised his aspirations to the extent of seeing formed an Agricultural Party which represented all shades of political opinion.

Among the agriculturists of the country, however, there was developed a feeling that something more than Parliamentary action or agitation was needed to improve their position. Complaints were then being more especially made against the railway companies, whose alleged undue preference of foreign over British produce was a much-discussed grievance which, as will be seen, had found expression in the second item on the National Agricultural Union programme.

ACTION BY GREAT EASTERN RAILWAY.

It was this particular phase of the controversy that led to an invitation being addressed by Lord Claud Hamilton, chairman of the Great Eastern Railway Company, to Lord Winchilsea and a few leading agriculturists representing the district served by the Great Eastern Railway to meet the directors and the principal officers of the company at Liverpool Street Station on October 20th, 1895, with a view to ascertaining in friendly conference whether the railway company could do anything to help the agricultural interest. Lord Claud Hamilton was accompanied at the conference by the deputy chairman, Colonel Makins, and various of the company's officers, while the agriculturists were represented by, among others, the Earl of Winchilsea, Sir Walter Gilbey, president of the Royal Agricultural Society, Mr. M'Calmont, M.P., Captain Pretyma, M.P., and Mr. T. Hare, M.P.

On the part of the railway company it was pointed out that while there should, in the interests of all parties concerned, be a certain co-operation between the railways and the producers, it was also essential that each side should have its distinct organisation. The railways had organised a carrying service, and it was for the producers, in turn, to organise their consignments for delivery to the railways and for subsequent sale. The greater economy to a railway company in dealing with large or bulked instead of an equivalent weight of small and separate consignments was pointed to, and the fundamental principle was laid down that, if the railways were to help agriculture, agriculture should, in turn, facilitate the operations of the railways. To this end Lord Claud Hamilton recommended that there should be opened at leading stations in the agricultural districts served by the Great Eastern Railway Company depôts to which the farmers of the locality could send their produce in order that, through combination, they could secure the lower rates for large collective consignments.

On the part of the agriculturists these proposals were

cordially approved, and a few days later it was announced that a co-operative association was being formed for the purpose, among other things, of establishing depôts, as suggested.

At a further conference, a fortnight later, Lord Claud Hamilton announced that, as a means both of enabling farmers to send supplies direct to consumers and of solving the problem of returned empties, his company had decided upon the adoption of a new system for the carriage of farm or market-garden produce. Provided that the senders packed the produce in wooden boxes to be purchased from the company—such boxes having so small a value that there would be no question of returning them—and fulfilled certain *specified conditions, the company would carry the produce* from close on 100 of their country stations at substantially lower rates, to include delivery to the consignees.

This “box system,” as it came to be known, met at first with much favour. In March, 1896, it was announced that the Great Eastern Railway Company would apply the system to the whole of their stations in agricultural districts, that is to say, to 300 stations instead of 100; and that, with the help of their station masters, they had, with a view to putting producer and consumer into more direct communication, compiled a “List of Producers in Cambridgeshire, Essex, Hertfordshire, Norfolk and Suffolk” who were willing to supply farm and dairy produce to householders in the towns. The list contained 600 names and addresses and stated the different kinds of produce which could be supplied.

Other leading railway companies (as will be shown later on in the Chapter dealing with “Transport Questions”) followed the example set by the Great Eastern alike in endeavouring to secure combination among the farmers for the purposes of joint consignment, in the establishing of the “box” system, and in endeavouring in other ways to forward the interests of agriculturists.

In regard, however, to combination, it was subsequently stated that although some of the companies went to a great

amount of trouble, and also to considerable expense, the result of their efforts in this particular direction was little better than a complete failure.

BRITISH PRODUCE SUPPLY ASSOCIATION.

In the meantime, Lord Winchilsea had matured his plans for a British Produce Supply Association which, formed under the auspices of the National Agricultural Union, and registered in March, 1896, was looked upon by the more sanguine of its supporters as likely to lead to a "new era" for the British farmer.

The objects of the Association were thus explained by Lord Winchilsea in an article entitled "Co-operation for Farmers," published in the "British Producers' Handbook":—

The object of the Association is to assist the producer in the disposal of his produce at every stage from the farm to the market. This it proposes to do in the following ways:—

1. By establishing depôts for the direct sale of agricultural produce, and by selling also, on commission, through salesmen of its own stationed in London and in the principal provincial markets. By this means the farmer, instead of being obliged to consign his produce to salesmen of whom he often knows little, and whose returns he has no means of checking, can send it to an Association established in his own interest, and thus have a satisfactory guarantee that it makes all that it is worth.

2. By establishing from time to time depôts at convenient centres in country districts, where produce can be collected and consigned to whatever market furnishes the best demand at the moment. This arrangement will, it is hoped, in due course enable the Association to obtain from railway companies the same rates for the carriage of home produce which are now granted almost exclusively to foreigners.

3. By establishing, in connection with one or more of the depôts according to the nature of the district, an abattoir or a butter factory, which will answer the double purpose of effecting a further and important economy in the treatment of meat or butter produced in the locality, and of serving as models for the imitation of associations of farmers in other parts of the country which might desire to follow in the footsteps of the parent Society, and, while erecting their own abattoir or butter factory, as the case may be, to avail themselves of its services for the ultimate disposal of their produce in the market.

4. It aims at gradually organising a better system for the collection of produce in rural districts surrounding the depôts, a

system which may, of course, be made available as an outlet for many rural industries not immediately connected with agriculture, but scarcely less valuable as a means of providing occupation for labourers and their families during the winter.

Registered as a limited liability company, the Association started with a capital of £50,000. At first the raising of £250,000, to allow of operations being carried out on a much larger scale, was contemplated; but the original plans were modified for reasons thus explained in an article on "A British Produce Supply Association," which I was privileged to contribute to *The Times* of March 16th, 1896:—

The reason for this limitation is the idea that, inasmuch as the initial efforts will be largely experimental, it would be better not to attempt too much at once, and to keep in the background for a time a much more ambitious scheme which might be developed all the better later on, if the promoters had from the first gained experience from actual working on a smaller scale. But the Association will, none the less, start under favourable auspices. The directors are the Earl of Winchelsea (President of the National Agricultural Union), Lord Kesteven, Mr. R. R. B. Orlebar, Mr. R. H. Rew (secretary of the Central Chambers of Agriculture), and Mr. Cornelius Thompson (late chairman of the committee of the Civil Service Supply Association), while the following, among others, have expressed approval of the objects in view:—The Duke of Portland, the Marquis of Huntly, Earl Brownlow, the Earl of Denbigh, the Earl of Jersey, Earl Stanhope, Lord Herries, Lord Wantage, the Marquis of Hertford, Mr. James Lowther, M.P., Mr. J. K. W. Digby, M.P., Mr. M. D'Arcy Wyvill, M.P., Mr. Alexander Henderson, Mr. W. More Molyneux, Mr. R. H. Wood, Mr. James Rankin, M.P., Mr. W. H. Hall, and Mr. R. A. Yerburch, M.P. The secretary is Mr. William Broomhall, and the offices (*pro tem.*) are at 30, Fleet Street. As we understand, the public is not to be asked to subscribe until experience has proved the practicability of the scheme.

For the collection of produce in the country, an agent of the Association was to be stationed at some convenient market town where, with funds provided weekly by the Association, he would purchase supplies direct from the farmers, who were to be guaranteed better prices than they would be likely otherwise to obtain locally, and be saved the trouble of themselves sending their produce away. The agent would have a depôt at the local railway station, and he would there bulk the consignments and get the advantage

of lower railway rates. It was expected also (to quote further from the article in *The Times*) that "the Association's agent would be a sort of technical educator, inasmuch as he would point out the faults of the produce he could not purchase, and would distribute leaflets and printed instructions as to what the Association wanted, and how things should be done. Hitherto," it was added, "with purely local prices, one farmer has had no inducement to offer better commodities than another, but this will be altered when the Association's agent practically takes the London market into the country." Butter obtained from co-operative dairy factories (the Association doing all it could to encourage the starting of more of such factories), and sent to London, would be graded and sold under a brand which would be a guarantee of purity and of British production. In addition to the abattoirs at which the Association would kill its own meat, bacon factories were to be established.

In regard to sale, the Association was to start with a depôt of its own in London, to be followed by others in Birmingham, Leeds, Manchester, and other large towns.

In the country operations were begun at Sleaford (Lincolnshire), where a local Association was formed. In London some commodious premises were taken in Long Acre, in convenient proximity to Covent Garden and other markets, and these were fitted up on the "stores" system, with the addition of a club room for the use of shareholders and of members of the British Produce League, which had been established to encourage the use of British products and the employment of British labour. It was hoped that the wholesale dealers would support the movement when they realised "the practical benefits that the Association aimed at securing in the interests of the British agriculturist"; but it was intimated that, if the "trade" held aloof, the Association was "fully prepared to deal on a widespread basis direct with the consumers."

The Long Acre depôt was opened in October, 1896, and at the outset a good business was done; but difficulties

began to be experienced from the start, and they increased almost daily in magnitude.

Producers in the country sold their best qualities to the ordinary traders, and expected that an Association started in the interests of agriculturists would give them a good price for their second-rate qualities. They felt hurt when their supplies were rejected, and still more so when the local agent started on his educational work of teaching them what they ought to do. One or two other local Associations were formed, and model rules were drawn up, in the hope that still more would follow ; but the progress made in this direction was very slight.

In London itself, Society had shown much sympathy towards the scheme while it was being projected ; but dwellers in the West End found it inconvenient to deal with a depôt so far away as Long Acre, and when it was sought to overcome their objections in this respect by the opening of a West End branch, they would still make no allowance for those who could not supply exactly what they wanted, while the plea that it was " British grown " did not incline them sufficiently to accept produce that was not to their liking.

The wholesale traders equally failed to show their patriotism in studying the interests of the British agriculturist when those interests seemed to conflict with their own business. Failing to make satisfactory arrangements with the salesmen in various wholesale markets, so that produce which could not be disposed of at the depôt might be sold on commission, the Association obtained stalls of its own in Covent Garden Market and the Central Meat Market ; but once more it was faced with troubles and difficulties.

In the result heavy losses were sustained. They amounted at times to as much as £250 a week ; and it became evident that failure could not be averted. The original Association—which, it will have been seen, in no degree represented co-operative effort—was dissolved, and a new one took over what was left of the business ; but the idea of having direct dealings with farmers in the country districts was almost

completely abandoned. Lord Winchilsea died on September 7th, 1899, his health having broken down as the direct result of his excessive zeal in the interests of British agriculture.

REASONS FOR FAILURE.

With the wisdom that comes after the event, the reasons for the failure of the well-intentioned efforts on the part alike of Lord Winchilsea and of the railway companies can easily be given.

Inquiry into the conditions under which the organisation of agriculture had been successfully carried out in other countries showed that a beginning had invariably been made with the simplest forms of combination, and more especially with combination for the joint purchase of agricultural necessities. In this way the advantages of co-operation could be brought home to cultivators, who were gradually educated in the theory and practice of combination without having their suspicions aroused and their mutual distrust stimulated by proposals that they should at once alter their old conditions of trading in accordance with that system of combination for transport or sale which really constitutes, not the beginning of agricultural organisation, but one of the most difficult and most complicated of all its many phases.

In the circumstances it was not surprising that the earlier efforts here in question should have failed to secure the desired results. While, also, they so far influenced public opinion as to modify the popular view that "the railways were the chief stumbling-block in the way of the development of British agriculture," and to show that the most practical means of effecting this development would be found in agricultural organisation, these initial failures left the impression that it was hopeless to attempt to secure that remedy here because, as was said, "British farmers won't combine." Thus the task to be attempted later on by others who were convinced that British farmers would combine if only they were approached in the right way was rendered

even more difficult than it would otherwise have been. None the less had it been made evident that the task was one to be accomplished, if at all, by an independent organisation, working on purely propagandist lines, and not only undertaking duties far beyond the scope of a railway company's activities, but also avoiding the risks and complications of actual trading.

Before this was done, however, there was to be a renewal of efforts by the Central and Associated Chambers of Agriculture.

CHAMBERS OF AGRICULTURE INQUIRY.

On March 3rd, 1896—that is to say, in the same month as that in which Lord Winchilsea's British Produce Supply Association was registered, and at a time when agricultural organisation was very much "in the air"—the Council of the Central and Associated Chambers resolved, by a majority of 21 to 8, "That this Council recognises the desirability of promoting combination for the sale and distribution of farm produce, and for the purchase of farm requisites"; while in the following November the Council further resolved, "That a Committee be appointed to enquire into the extent to which the principle of co-operation has been applied in this and other countries to the sale of agricultural produce; whether it is feasible and desirable to promote its further extension; and, if so, what means are best adapted to that end." The Committee was constituted thus:—The Rt. Hon. J. L. Wharton, M.P., the Rt. Hon. (now Sir) Horace Plunkett, M.P., Mr. D'Arcy Wyvill, M.P., Mr. R. A. Yerburgh, M.P., Mr. W. H. Barfoot-Saunt, Mr. J. Bowen-Jones, Mr. T. Latham, Mr. W. Lipscomb, Professor Long, Mr. Clare Sewell Read, and Mr. S. Rowlandson, with the subsequent addition of Lord Wenlock, Mr. F. E. Muntz and Captain Stuart-Wortley, R.N., while Mr. R. H. Rew, who took an active part throughout in this further phase of the movement, was once more appointed to the position of secretary.

At the outset of their enquiry the Committee invited the

assistance of various authorities on the questions within the terms of their reference, and the following attended the meetings held, and gave the Committee the benefit of their experience :—Mr. M. R. Margesson, British Produce Supply Association; Mr. R. A. Anderson, Irish Agricultural Organisation Society; Mr. Algernon Fawkes, late agent to Lord Vernon; Mr. F. E. Walker, Escrick Dairy Factory; Mr. R. T. Haynes, South Shropshire Farmers' Trading Association; Mr. Alec Steel, Eastern Counties Dairy Farmers' Society; and Mr. H. Cecil Wright. The Committee further convened a conference on agricultural co-operation, held in the rooms of the Society of Arts on December 8th, 1897. Representatives attended from many different associations, and among those who were also present were Mr. (now Sir) T. H. Elliott, C.B., Secretary, and Major Craigie, Assistant-Secretary of the Board of Agriculture. The main purpose of the conference was to consider "the question of the desirability and feasibility of extending the principle of co-operation for the purchase of farming requisites and the sale of agricultural produce, and the means best adapted to that end." It was thought that the chief object in view had been attained by the practical nature of the speeches made, while the direct outcome of the proceedings was the passing of a resolution as follows :—

That this conference considers it is desirable to establish some form of communication between the various British and Irish co-operative agricultural organisations, and respectfully requests the Central Chamber of Agriculture to initiate this movement by calling representatives together on a future occasion.

The report eventually issued by the Committee included a detailed account of agricultural co-operation (1) in Great Britain, (2) in Ireland, (3) on the Continent, and (4) in the United States, Canada and Australasia; and it further gave certain conclusions at which the Committee had arrived. Corroboration was found for the view previously expressed by the Central Chamber, "that co-operation for purchase and co-operation for sale form two separate problems, and that the solution of the one is easy

while that of the other is extraordinarily difficult." The Committee endorsed the recommendation that local associations for the co-operative purchase of farming requisites should be increased, and thought that "in many cases the functions of such an association would form a fitting branch of an existing Farmers' Club or Chamber of Agriculture." In regard to co-operation for sale they considered that, notwithstanding the admitted difficulties, associations of producers in particular districts for the joint disposal of certain classes of produce would be advantageous ; and they proceeded :—

It is not to be expected, however, that such associations will arise spontaneously. They are only likely to be started, even where they may be most desirable, as the result of an organised and systematic mission to explain the principle of co-operation, the probable advantages of its adoption in each particular case, and the constitution, rules, and procedure which must be accepted and followed if the harmonious and successful working of co-operative associations is to be assured. In short, work similar to that done in Ireland by the Irish Agricultural Organisation Society would need to be done in this country by a purely propagandist body.

The Committee hesitate, however, to recommend an addition to the numerous agricultural associations already existing, the more so as they are of opinion that the end would be better attained by utilising to some extent the machinery of the Central Chamber of Agriculture, which already stands in some respects in an analogous position to the Irish Agricultural Organisation Society.

Finally, the Committee recommended the Council of the Central and Associated Chambers of Agriculture to constitute a "Co-operation Section," which should comprise all deputies and subscribing members of the Chamber desirous of joining it, and should have power to take action, within defined limits, and without committing the Chambers as a whole, for the promotion of the principle of co-operation in agriculture.

In the light of subsequent developments, one may well wonder what the history of agricultural co-operation would have been if the movement had been directed and controlled by the Central Chamber of Agriculture as here suggested.

In effect, however, the great services which the Chamber had already rendered in helping to direct public attention still further to the general subject were not to fructify into a definite carrying out of the scheme projected, and the actual establishment of agricultural co-operation as a national movement was to be brought about under widely different conditions.

BRITISH AGRICULTURAL ORGANISATION SOCIETY.

In 1900, there was formed at Newark, Nottingham, by Mr. W. L. Charleton, a British Agricultural Organisation Society based on lines akin to those of the Irish Agricultural Organisation Society.

THE AGRICULTURAL ORGANISATION SOCIETY FORMED.

Within a year of this British Agricultural Organisation Society being established, the decision was arrived at to unite it with the National Agricultural Union, and form a new body, to be called the Agricultural Organisation Society. Mr. R. A. Yerburch, M.P., one of the earliest of Lord Winchilsea's supporters, a member of the Central Chamber of Agriculture's Committee on Co-operation for Purchase, and then President of the National Agricultural Union, accepted the position of President of this new body on the understanding that it adopted co-operation as its fundamental principle ;¹ and it is in accordance with this understanding that the operations of the Agricultural Organisation Society, brought into existence as the final outcome of the series of events here narrated, have been conducted ever since.

B.—PROGRESS AND DEVELOPMENT.

Registered in April, 1901, under the Industrial and Provident Societies Act, the Agricultural Organisation

¹ Mr. Yerburch had previously made it a condition of his acceptance of the presidency of the National Agricultural Union that that body should abandon "Protection and Politics."

Society—otherwise the “A. O. S.”—was constituted as a non-party and non-trading body, whose main purpose was to “secure the co-operation of all connected with the land, whether as owners, occupiers or labourers, and to promote the formation of agricultural co-operative societies for the purchase of requisites, for the sale of produce, for agricultural credit banking and insurance, and for all other forms of co-operation for the benefit of agriculture.” The Society adopted, in fact, on its own account, the principle which had been enunciated by Sir Horace Plunkett at the inauguration of the Irish Agricultural Organisation Society, in 1894, when he said :—“The keynote of our proposals is in the proposition that the farmers must work out their own salvation, and, further, that this can only be done by combination among themselves.”

While, however, public opinion was, by this time, fully prepared to endorse the soundness of the argument, it greatly doubted the possibility of carrying the proposals into effect. It sympathised with the idea of combination among British farmers, but assumed, from the recent experiences, that those who made further attempts to attain the realisation of that idea would simply be following up a forlorn hope.

There did, also, appear to be a certain amount of presumption on the part of the new Society.

The National Agricultural Conference of December, 1892, had brought together the greatest authorities in the British agricultural world, and these had proposed their remedies and blessed the formation of a National Agricultural Union ; but the remedies were found to be of no avail and the National Union came to nought.

Lord Winchilsea had organised his British Produce Supply Association with a capital of £50,000, had secured the support of leading members of London Society, had started operations on an ambitious scale, and had then—failed.

The railway companies, with all their powerful resources, had in turn sought to promote combination among the farmers, and they, too, had—failed.

Notwithstanding these failures, an unpretending little

Society which, at the outset, occupied two small rooms in a block of offices situate in a side street in Westminster, and had at first hardly enough funds with which—apart from the voluntary efforts of an active committee—to pay rent, a secretary, a typist, and the charwoman, and distribute leaflets in addition, had started on no less formidable a task than, not merely inducing British farmers to combine, but practically reorganising their industry, with possibilities of exciting the prejudices, or of arousing the opposition, of powerful commercial interests concerned to the extent of many millions in the allied industries on which agriculture was more or less dependent. Yet the said Society, based on sound principles, and increasing in strength as the years went on, was to attain to such success that it represents to-day a national movement which has not only already achieved important results, but, with the process of reconstitution it has just undergone, should enter upon a fresh and greatly expanded career of practical usefulness alike to agriculture and to the country in general.

The first secretary of the Society was Mr. A. T. Matthews, who had acted as secretary to the National Agricultural Union. Mr. J. Nugent Harris, the present secretary, began his connection with the Society in July, 1901, when he was appointed as dairy expert. Three months later, on Mr. Matthews resigning his post as secretary, Mr. Harris succeeded him in that position.

EARLY DAYS.

At the outset there was naturally a great amount of spade work to be done in preparing the foundations of a system of agricultural organisation designed, at first, to cover not only the whole of England and Wales, but Scotland as well; though, as will be told in detail in the section on "Devolution," the work of carrying on organisation in Scotland from the London headquarters through a small staff, controlling inadequate finances, was so arduous that the A. O. S. readily joined in the setting up, in 1905, of a separate organisation for Scotland.

In these early days even that very word "co-operation," which constituted the fundamental principle of the movement, was misunderstood, and is, in fact, still widely misunderstood even to-day. There were, in 1901, already in existence many Farmers' Trading Companies, Farmers' Auction Marts, Farmers' Insurance Companies and other combinations with the prefix "Farmers'"; but although some of these were genuine co-operative bodies, they were mostly limited liability companies whose gains benefited shareholders not themselves necessarily agriculturists or interested in agriculture apart from the dividends they received. When such combinations failed, or did wrong things, they brought discredit on co-operation because they had quite wrongly annexed that designation; but they were not really co-operative societies in the sense implied in the following explanatory statement contained in a letter sent to the Press by the A. O. S. :—

The best way to form an agricultural co-operative society is to register under the Industrial and Provident Societies' Act, and so to frame the rules that the amount of the nominal capital is not fixed; that shares can be allotted at any time to any farmer applying for them; that the interest payable upon the capital is limited to a small percentage, usually 5 per cent., thus preventing the concern from becoming a mere investment for capitalists; and that the bulk of the profits is divided amongst the members as a bonus upon the amount of their sales through, and purchases from, the society.

Then, however hopeless the prospect of the Society's success may have appeared to many persons, considerable interest was attracted to it even in the first year of its existence. This interest was especially stimulated by the issuing of the following statement (subsequently modified in certain of its details) as to the actual lines on which it was prepared to carry out the fundamental principles already mentioned :—

1. By sending down organisers to address meetings and to give advice as to the proper course to be pursued in the formation of local societies.

2. By providing model rules which have been found by experience to be the best working rules for all similar societies.

3. By sending down lecturers, when desired, to affiliated and other societies.
4. By acting as an information bureau to affiliated societies—
 - (a) For expert advice.
 - (b) For legal matters (especially as regards Industrial and Provident Societies).
 - (c) For co-operative account keeping.
5. By arbitration in disputes arising from the rules and administration of affiliated societies.
6. By assisting in all ways possible the furtherance of combined action between the various affiliated societies in trading matters.
7. By publishing leaflets and circulars from time to time dealing with the various forms of agricultural co-operation, and furnishing trade information.

This was, in the circumstances, an ambitious programme for a young Society, and the work of the early days was naturally imperfect in many directions by reason of insufficient staff and means and the difficulties presented by having both to face the prejudices of generations and to win over the agricultural mind to entirely new ideas. All the same, a certain degree of success was secured from the start, and the progress made, however slow, was sure.

At the end of the first year of its operations, there were already in affiliation 33 societies, some of which had been formed by the British Agricultural Organisation Society, previously to the registration of the A. O. S., though most of them had been established subsequently thereto.

FINANCIAL POSITION.

In addition to affiliated societies, the membership included individual subscribers to the funds; yet even with this support the question of finance presented serious difficulties, so much so that in the report for 1903 it was said :—

Out of the small income, a little more than £700 per annum, which is at the disposal of the Committee, we have to provide a secretary, suitable offices, clerical assistance, trained organisers to give expert advice to local societies, and to furnish, without stint, information by means of printed matter, etc. This can only be done by the employment of men with special knowledge and experience, and to secure their services due remuneration and travelling expenses are obviously necessary.

The insufficiency of funds was, in fact, at this time, and for some years afterwards, a constant nightmare to those concerned in the task which had been undertaken, and a great debt of gratitude is due to those who so loyally supported the Society in this anxious period by money and by personal service. The work had to go on, whatever the difficulties, and it was impossible to retrench in face of the ever-increasing need for further expenditure to meet new developments or even the natural expansion of what had already been taken in hand.

METHODS OF OPERATION.

How the A. O. S. started on its task of organising the agricultural industries of the country may be illustrated by some references to its second annual report, for 1902 ; and it will further be seen therefrom how materially the methods of the Society differed from those that had previously been adopted in this country.

A very good beginning indeed had been made in the Midlands. Five societies had been registered there ; a conference on organised co-operation in agriculture had been held at Worcester under the auspices of the Agricultural Sub-Committee of the Worcestershire County Council and the A. O. S., and the movement was being eagerly discussed on all sides. In the way of accomplished results it was reported that certain of the societies had come into considerable prominence owing to the vigorous action they had taken in breaking up some rings formed by dealers who had sought to control the green pea and cherry markets. One of these societies had acquired the apples and pears in a number of orchards, had had the fruit gathered by trained fruit-pickers, and, utilising a large warehouse, had made up, not only such consignments as the railway people preferred to handle, but consignments properly graded and packed, and likely, therefore, no less to satisfy the dealers. Plums, damsons, and blackberries, together with potatoes, carrots, and other vegetables had been graded and dealt with in the same way, the declared experience of the society being that

“ highly-graded produce, of which the dealer can be assured a continuous supply of a uniform quality, will command a considerably higher price in the market than mixed produce, however good ; and as no one man can possibly pack and grade the crop of his own place, unless he is a very large grower, co-operation offers the true means of competing with foreign products.”

PROGRESS IN WALES.

The report for the same year (1902) shows that “ remarkable progress ” had been made in Wales. There were then in the Principality eleven co-operative agricultural societies, most of which had been formed mainly for the co-operative purchase of agricultural requirements. Four had directed their attention to live stock improvement, procuring pedigree bulls and boars, and others, which had sought to organise collective sale, had been successful in combating a “ ring ” among the poultry salesmen. One society, not registered until February, 1902, had nearly 400 members by the end of the year, had had a turnover of £1,600 and had made a profit of £200 in dealing with fertilisers, seeds, etc., though it had done so in face of the keenest competition ; and it had just taken over from a local dealer some premises which contained a gas engine and a mill for grinding maize, barley, etc. A store-keeper had been appointed, a trade agent was to be engaged to act as an organising secretary, a weekly pig market was to be started ; a comprehensive live stock improvement scheme was being planned ; the store already mentioned was to be further used as an egg-collecting depôt ; and steps were being taken to improve the breed of members’ poultry, a stock of the best winter-laying birds having already been obtained. The other societies were operating more or less on similar lines, and it was reported in regard to the general movement in Wales that, by the formation of these societies, a saving of from 20 to 25 per cent. had resulted to the farmers who were members of them, while a further effect had been experienced in the bringing down of prices all round wherever the starting of

a society was projected. On the other hand the societies had had to meet "a most powerful trade opposition," and it was thought better to establish firmly and consolidate the societies already existing in Wales rather than respond too eagerly to the requests daily coming to hand for the formation of new societies.

One further result of the work in Wales that might be mentioned was the remarkable change in the quality of the seeds, fertilisers, etc., supplied to the districts where the agricultural co-operative societies had been in operation for any length of time. In the days prior to organisation as an active force in agriculture, Wales and Ireland were alike the common dumping grounds for the refuse and the "cleanings" of seeds and for the poorest qualities of fertilisers from England and Scotland; but the tests, analyses or guarantees instituted or insisted on by the societies, together with the rejection of inferior supplies, led to changes in methods from which farmers outside the organisation movement benefited—as they are doing to a still greater degree to-day—no less than those who had given it their support.¹

ADVANTAGES OF THE NEW ORGANISATION.

These examples may serve to illustrate the general lines on which the Society started its operations. There was already in existence a considerable range of societies which had been formed (as distinct from commercial undertakings) to promote in various ways the interests of agriculture, horticulture and allied industries, but none of them fulfilled the same purpose in enabling the British farmer to (1) produce to the best advantage; (2) transport to the best advantage; and (3) sell to the best advantage. The Society took up the practical side of agriculture just where the

¹ In the gardens of the Royal Agricultural College, Cirencester, there is an experimental plot which gives a practical illustration of the result of using so-called "grass" seeds consisting mainly of cleanings. In one section, planted with cock's-foot grass, the crop produced included wild geraniums, thistles and several turnips. In another section the sheep's fescue grass, which should alone have been seen, was almost entirely obscured by an abundant growth of thistles, plantain mustard, ox-eyed daisy, hawk weed and medick.

teachings of science left off, and the economies effected in the joint purchase of agricultural necessities by a group of producers in Worcestershire or elsewhere; the better control they got of the market; the obvious superiority of properly-gathered and properly-graded consignments on a larger scale; the realising of better prices from sales—these and other advantages, steadily increasing in range and extent as the work underwent still further development, were object-lessons in agricultural combination which could not fail to produce a good effect even where the aforesaid earlier efforts had failed; while the policy followed by the founders of the movement was to establish small local societies, and allow these to form the real basis of an organisation eventually to assume national proportions, rather than to work in the opposite direction by starting a national movement first and the local societies last.

In 1904 the Society enlarged the scope of its operations by absorbing the Co-operative Banks Association, and in 1909 came the taking over of the organisation work of the National Poultry Organisation Society, concerning which more will be said in the section dealing with "Eggs and Poultry."

JOINT BOARDS.

Down to 1908 the agricultural co-operative movement was operated on independent lines by the central societies of England and Wales, Scotland and Ireland respectively; but a conference held in Dublin on June 12 in that year by representatives of the three bodies decided, in the words of a pamphlet subsequently issued by Sir Horace Plunkett, "that some permanent machinery should be established whereby mutual consultation in matters relating to organisation, and united action in matters relating to trade, could be resorted to whenever the work of organising the farmers of these islands seemed likely to be furthered thereby." To this end there were appointed two boards, the one a Joint Board for Agricultural Organisation, and the other a Joint Board for Agricultural Co-operative Trade. The former

consisted of representatives of the three central societies, and the latter of representatives of the Agricultural Co-operative Federation, the Eastern Counties Farmers' Co-operative Association, the Scottish Agricultural Organisation Society, the Farmers' Supply Association of Scotland, the North-Eastern Agricultural Co-operative Society and the Irish Agricultural Wholesale Society. Sir Horace Plunkett was appointed chairman and Mr. R. A. Anderson hon. secretary of each Board, with Mr. R. M. Drysdale, Mr. F. C. Smith and Mr. John Portnell joint secretaries on trade.

Meetings of the Joint Board for Organisation, held in 1908, dealt with various important subjects, including co-operative credit and the relation of the State to agricultural organisation.

It was considered that the matters on which action by the Joint Board for Trade might most successfully be taken were (1) the acquisition of agricultural necessities of the best qualities at the lowest prices; (2) the marketing of produce in the most economical manner; and (3) the interchange of commodities between the different societies themselves. The Board held three meetings in 1908, appointed a sub-committee to report on the conditions in respect to co-operative trade in (a) fertilisers, (b) implements and machinery, (c) feeding stuffs, (d) seeds, and also held an important conference with the Fertiliser Manufacturers' Association. In April, 1909, the question of the manufacture and supply of feeding cakes was discussed and referred to the sub-committee.

At recent meetings of the Joint Boards a number of important questions have been discussed.

THE PLAN OF CAMPAIGN.

The system on which the business of the A. O. S. was conducted may be briefly indicated as follows:—

I. Advertisement:

- (a) Holding of meetings at which addresses on agricultural co-operation were given by the President and members of the Committee, or by members of the staff.

(b) The issue of leaflets, circulars, reports, etc.; the publication of the "A. O. S. Journal," and communications to the Press.

(c) A system of expert correspondence on matters relating to agricultural co-operation.

II. Organisation of Agricultural Co-operative Societies :

(a) When invited so to do, the A. O. S. sent an organiser to a district to explain the methods of forming and working an Agricultural Co-operative Society.

(b) The A. O. S. supplied its "Model Rules," and attended to the legal formalities of registration by acting as a medium between the Society and the Registrar of Friendly Societies.

III. The assisting of co-operative societies in the following directions :—

(a) Visits by organisers from time to time, or attendance at annual or other general meetings, opportunities being thus afforded for the giving of advice or direction by members of the central staff.

(b) The publication in leaflets, circulars, and in the "A. O. S. Journal" of articles on co-operative subjects and on matters of importance to the administration of societies.

(c) The giving of expert advice by means of correspondence.

IV. Acting as a medium between co-operative societies and Government Departments, County Councils, Railway Companies and other bodies, and watching, in their progress through Parliament, any Bills which might affect the interests of agricultural co-operative societies or their members.

V. General organisation.

In the carrying on of the work on these lines, the societies were also brought into contact with each other by means of district and other conferences, the *Joint Board for Trade*, etc., these having the effect of encouraging the exchange of experience and information among the societies themselves.

In later years was to come, as will be told in due course, recognition by the State, the carrying out of a "devolution" policy, the building up of many different departments (each of which will here call for separate treatment), removal of offices, and increase of staff, all contrasting strongly with the conditions that prevailed in the Society's early days.

C.—STATE AID AND PUBLIC APPROVAL.

While the Agricultural Organisation Society had started as a propagandist institution entirely dependent on voluntary contributions, the importance of the work it was doing received early official recognition of a character which, in the circumstances, was especially gratifying and encouraging.

THE BOARD OF AGRICULTURE.

At a conference on agricultural co-operation arranged by the agricultural students of the Aberystwith University, and held there on December 1st, 1902, the late Mr. R. W. Hanbury, then President of the Board of Agriculture, said :—

I am not only personally in favour of agricultural co-operation, but I think it is an object that ought to be assisted as far as the Government can reasonably assist it. I do not say it is a panacea for all the evils and troubles of agriculturists. . . . The troubles of agriculturists have got to be removed by applying a great number of remedies, and especially those remedies which are suitable to all places. Although co-operation is not the cure-all, although it is not a panacea, upon my honour I believe it comes nearer to being such than a good many of the remedies we sometimes hear of. . . . It is the best form of self-help. . . . Let farmers consider that theirs is a business. . . . I should like to see the farmers of this country a great deal better organised than they are. . . . You should put pressure upon any Government, by whatever name it may be called, to do justice to this great industry. I therefore ask you, as farmers, to organise and bring pressure upon any Government to see that justice is done.

Mr. Hanbury also attended the first public meeting of members and subscribers held at the Westminster Palace Hotel on April 29th, 1902, on which occasion he said, in the course of another most sympathetic speech—

He did not know that pecuniary assistance could be given to the A. O. S. from the State, but he wished by his presence to show that his department was ready to take an interest in their important work, and hoped that the work of both would be brought into closer touch. They would be pleased to render help and information in every way, and he himself would like to become a member.

By the death of Mr. Hanbury, in 1903, the Society lost a good friend ; but the late Earl of Onslow, who succeeded him as President of the Board of Agriculture, attended the public meeting of the A. O. S. held at Grosvenor House on May 26th, 1903, and declared that he most heartily endorsed the sentiments expressed by his predecessor, adding, "I have the deepest interest in this Association and I intend to do all I can to assist the good work it has in hand."

Lord Onslow's successor at the Board of Agriculture, the Right Hon. Ailwyn Fellowes, was among the speakers at the annual meeting in 1905, and said he considered that the work which had been done by the Society deserved the sympathy and support of everyone. To his mind there was no better form of co-operative organisation than that which the Society advocated, and the Board over which he presided wished them "all luck and all success." They would find in that Board a body which was absolutely with them in almost all their wishes as regarded agriculture in this country, and they would certainly do all they could to assist them.

When Earl Carrington, now the Marquis of Lincolnshire, succeeded to the office of President of the Board of Agriculture, he was no less sympathetic towards the A. O. S. than his predecessors had been. In a speech he delivered at the annual meeting in 1906 he said that—

When the taxation of the country and the income tax were reduced, and they had a little money in the till, then with the greatest pleasure he would tackle the Chancellor of the Exchequer and put it before him in the most forcible language that of all the demands which were being made upon him there was not one that deserved more sympathetic and more practical, hearty support than that of the Society of which Mr. Yerburch was the head. He was glad to have had an opportunity of showing his entire sympathy with, and his practical support of, the co-operative movement, and he could assure them that every member of His Majesty's Cabinet hoped to see a great development of the work of the Society in the future.

Mention should be made, also, of the cordiality shown towards the Society, and the practical help given in many

ways, by all the leading officials of the Board of Agriculture, and more especially by the Permanent Secretary, Sir Thomas Elliott, whose ever-ready assistance has been of great service in furthering the Society's propagandist work, and helping to place the Society itself on a firmer footing. Most useful, also, were the leaflets issued by the Board of Agriculture from time to time dealing with the A. O. S. or with particular phases of its activities, together with the further references thereto in the Board's official journal.

THE HOME OFFICE.

In 1903, also, the Home Office granted the prayer of a memorial from the A. O. S., asking for the removal of certain disadvantages under which creameries in Great Britain laboured as compared with creameries in Ireland, by reason of the special exemptions granted to the latter as regarded the employment of women on Sundays.

THE TREASURY.

Equal success attended the presentation, again in 1903, of a joint memorial to the Lords of the Treasury from the Co-operative Banks Association, the Agricultural Organisation Society and the Irish Agricultural Organisation Society for the removal of certain restrictions regarding the registration of Agricultural Credit Societies designed in the interests of small cultivators and the rural labouring class.

It was asked that in view of the essentially "friendly" character of these village societies, coupled with the fact that no profit or dividend is divided amongst their members, there should be an amendment of such regulations as prevented the societies from being registered as, and sharing in the privileges of, ordinary friendly societies. The amendments desired were—(a) Abolition of the £1 fee for registration and of the 10s. fee for amendment of rules, these fees, it was pointed out, being "prohibitive to the very poor people it was sought to encourage in the direction of economic self-help"; (b) exemption from stamp duty, as per

clause 33 of the Friendly Societies Act, and (c) priority of claims against the estates of officers, as per clause 35 of the Friendly Societies Act. All three proposals were acceded to by the Treasury.

. BOARD OF EDUCATION AND COUNTY COUNCILS.

Indirectly, a certain degree of State-aid was obtained in 1902, through an important concession by the Board of Education.

As the result of several conferences between Mr. C. G. Watkins, secretary to the Education Committee of the Bucks County Council and the A. O. S., a representation was made to the Board of Education, on behalf of the Agricultural Sub-Committee of the County Council in question, that instruction in the "Principles and Practice of Agricultural Co-operation"—which subject was not included in the branches of science and art with respect to which grants were then being made by the Board of Education under the Technical Instruction Act of 1889—was required by the circumstances of the district.

Mr. Yerburgh also waited specially on the then Permanent Secretary to the Board of Education, Sir George Kekewich, in respect to this application, and there was reason to believe that the representations he made had much to do with the granting of the desired concession by the Board. Following thereon, the Education Committee of the Bucks County Council employed, for three months, one of the organisers of the A. O. S. to give instruction in the methods of agricultural organisation, a society being formed as the result of his labours. A circular letter was issued by the Board of Agriculture to the County Councils of England and Wales, bringing the concession under their notice, and several councils, obtaining like sanction, utilised the services of the Society or took other steps to promote the teaching of the principles and practice of agricultural co-operation.

In Wales, where the interest in the movement had, by this time, become exceptionally keen, the County Councils of

Carmarthen, Cardigan and Pembroke sent in August, 1902, a deputation of 18 delegates to Ireland, where nine counties were visited and close enquiry was made into the working of agricultural co-operation there. The Secretary of the A. Q. S. accompanied the deputation, and helped in organising the tour. The Irish Agricultural Organisation Society also gave a good deal of assistance. Much of the success of the tour was due to the untiring efforts of the hon. secretary, Mr. H. Jones-Davies.

In a report subsequently presented for the consideration of their respective County Councils the delegates placed on record their conviction "that the principles of agricultural co-operation, as established on the model of several European countries, and as successfully applied in Ireland, are eminently adapted to further the present condition of agriculture in west Wales, and that their adoption is highly desirable in the farming interest." The delegates thought the comparative failure of the butter factories hitherto established in that part of Wales was mainly attributable to the fact that the elementary principles of agricultural co-operation had not been applied to their formation and subsequent conduct, and they made a long series of recommendations to their Councils with a view to securing the dissemination of these principles in the general interest of agricultural industries in their districts.

The example set by those of the English and Welsh County Councils which had taken up the teaching of the principles and practice of agricultural co-operation was speedily followed in Ireland, so that in this respect, at least, England led the way. County Councils were, indeed, finding that agricultural co-operation was but the logical outcome and practical application of such agricultural instruction as they were already, in many instances, so actively engaged in imparting. The position was put very clearly by one of the County Council instructors in Ireland, who said :—"When farmers have been taught by lecturers and experts everything they can teach them about artificial manures, farm seeds, and feeding stuffs, the farmers naturally want to be

placed in a position to procure these articles of the very best quality and at the lowest prices."

Among other developments of this action on the part of the County Councils mention might be made of the delivery of lectures under the combined auspices of the Worcestershire County Council and of the local co-operative societies; the inclusion, in 1903-4, of "Farmers' Clubs and Co-operation" and "Co-operation in Dairy Work" among the subjects discussed in a series of "Informal Talks" included in the Notts County Council Education Committee's scheme of technical instruction; the formation of a society at Frampton-on-Severn as the result of a lecture on agricultural co-operation arranged by Mr. Turner, director of agricultural education for the Gloucester County Council, the lecturer being an A. O. S. organiser; the delivery in Buckinghamshire of further series of lectures on "The Benefits of Co-operation," by an A. O. S. organiser, in 1907 and 1908, under an arrangement with the Bucks County Education Committee; and the lectures arranged by the County Councils of Cambridge, Lancashire and Wilts.

As will, however, be shown later on, the statement made in the second annual report, for the year 1902, to the effect that "County Councils have not, as a rule, realised the importance of thorough organisation in agricultural matters," remained, generally speaking, still applicable, notwithstanding various gratifying exceptions thereto.

COLLEGES.

From various colleges came much support for the movement, more especially in regard to educational matters.

At the University College, Aberystwith, some courses of lectures on "Agricultural Co-operation" were begun in 1902 by Professor D. D. Williams, and in the following year Mr. Augustus Brigstocke, honorary representative for South Wales, and also a member of the Committee, presented to the governors of the college two scholarships of the value of £10 each to enable diploma students to pursue these courses of lectures.

The Agricultural Department of the University College of North Wales, Bangor, organised a series of "extension lectures" on "Agricultural Co-operation," the outcome of which was the formation of two new societies.

The Council of the University College, Reading, took part in the holding, in that town, on March 21st, 1903, of a conference attended by Mr. Hanbury, Sir Horace Plunkett, Mr. Yerburch, and others, at which a resolution affirming the desirability, in the interests of agriculture, of encouraging "the study and adoption throughout Great Britain of those principles of agricultural co-operation which have been for many years so successfully established in foreign countries, and more recently in Ireland and several parts of England and Wales."

The present Director for Agriculture of the Reading College, Mr. R. Hart-Synnot, is most sympathetic and recently issued a circular letter to the principal newspapers in the counties of Hants, Dorset, Wilts, Berks and Oxon in support of agricultural co-operation.

CO-OPERATIVE UNION.

To the Co-operative Union and its late secretary, Mr. J. C. Gray, the Committee expressed themselves, as early as 1902, "much indebted and very grateful for the advice and guidance given in matters of great importance" to the movement. These acknowledgments were renewed in 1903. At the 1904 Congress of the Co-operative Union the following resolution was passed:—

That this conference notes with satisfaction the growth of co-operation amongst agriculturists, as evidenced by the numerous co-operative societies established during recent years for the purpose of supplying farmers and others with the machinery, implements, manures, seeds, etc., required in their business, and also for distributing their produce on a co-operative system. Believing it desirable that a closer connection should be maintained between all branches of the co-operative movement in this country, the Congress pledges itself to assist in the development of co-operation in this direction by encouraging the Agricultural Organisation Society in its work, and by using its influence towards the establishment of mutual trading relations

between the Co-operative Wholesale Societies and the Agricultural Societies.

The present General Secretary, Mr. Whitehead, continues the policy of his predecessor, Mr. Gray.

FARMERS' ASSOCIATIONS.

Another feature of the good progress made was the number of societies formed as offshoots of existing farmers' associations,—a fact which fully confirms what has already been said as to the supplying of needs not met by the earlier agricultural organisations, however valuable the services they rendered in other directions. Of the 46 societies formed between January 1st, 1905, and June 30th, 1906, seven originated with existing farmers' associations, and eleven more of these bodies were, on the latter date, considering proposals for the formation of co-operative societies. At a meeting of the Yorkshire Union of Agricultural Clubs and Chambers of Agriculture on June 19th, 1906, it was resolved that clubs affiliated to the Union should be urged to form co-operative agricultural societies and a committee was appointed to carry this resolution into effect.

THE PRESS.

To the Press of the country the A. O. S. is indebted for an almost general support, the exceptions being very few, and including various trade papers which thought that the interests of their own particular class of readers might be prejudiced by the movement. The articles published from time to time in London and provincial papers had a powerful effect in making the movement better known, and securing for it a still greater measure of public sympathy and encouragement.

The publication, in 1904, through Mr. John Murray, of "The Organisation of Agriculture," a book which represented a substantial expansion of a series of four articles published in *The Times* at Easter in that year, giving details concerning the development of agricultural organisation in

other countries and the position at home, was also considered to have served a useful purpose.

SMALL HOLDINGS GRANT.

Notwithstanding all this wide-spread approval of its objects and work, the Society continued down to 1909 to be entirely dependent on voluntary contributions for the means by which that work could be carried on, and its powers of usefulness were severely restricted by the inadequacy of its finances. At the end of 1908 the A. O. S. was the central body of 281 affiliated societies, viz., societies for the supply of requirements or sale of produce, 121; small holdings and allotments societies, 111; dairy societies, 13; agricultural credit societies, 20; farming societies, 3; auction markets, 3; industrial societies, 2; fruit-grading societies, 2; together with one motor service society, one milling society, the Agricultural Co-operative Federation, the Central Co-operative Bank, the Agricultural and General Co-operative Insurance Society, and the Scottish Agricultural Organisation Society. These affiliated societies had then a membership of about 15,000, and their turnover for the year was estimated at £770,000, while the financial position, in 1908, of the parent Society, which was pioneering the whole movement and seeking to establish it on national lines, stood thus:—

Receipts—	£	s.	d.	£	s.	d.
Subscriptions	1,222	18	0			
Affiliation fees	78	1	7			
Donations	77	0	1			
Guarantee fund called up ..	670	7	0			
Other receipts	478	8	10			
	<hr/>					
Total receipts				2,526	15	6
Total expenditure				2,477	11	8
	<hr/>					
Balance of receipts over expenditure				49	3	10

Some degree of relief, however, was to come to the A. O. S. in the form of a grant from the Board of Agriculture, made under the following circumstances.

In April, 1905, the President of the Board of Agriculture appointed a Departmental Committee to enquire into the administration and working of the Small Holdings Act, 1892. The members of this Committee included the President of the A. O. S. (Mr. R. A. Yerburgh, M.P.), and among the witnesses examined were the secretary (Mr. J. Nugent Harris), and the then chief organiser (Mr. W. M. Tod) of the A. O. S., and representatives of some of the affiliated societies. In their report, dated December 10th, 1906, the Committee dealt with (among many other matters) the subject of co-operation as applied to small holdings, and said :—

The Committee are of opinion that practical steps should be taken by the Government to promote all forms of agricultural co-operation, and especially to encourage the formation of agricultural credit societies. The Committee have carefully considered the question whether it is desirable that the promotion of co-operation should be undertaken directly by the Government Department, or should be entrusted to a voluntary organisation which should receive a grant from the public funds. The Committee have come to the conclusion that the propagandist work can be more effectively carried out by a voluntary organisation, more particularly if that organisation is of a representative character. They have considered the work which is being done by the Agricultural Organisation Society, and are of opinion that an annual grant should be made to the said society by the Board of Agriculture, under such limitations as the Board may think desirable.

Following on this report, Parliament passed the Small Holdings Act of 1907, consolidated in the following year by the Act of 1908. Small Holdings Commissioners were to be appointed ; a special account, to be called " The Small Holdings' Account," was created ; and there was placed on County Councils the obligation to provide small holdings for *bonâ fide* applicants, compulsory powers for acquiring land being, to this end, given to the Councils and also to the Board of Agriculture in the event of the Councils not performing their statutory duty.

It was further enacted, by Section 49 (4) :—

The Board [*i.e.*, the Board of Agriculture], with the consent of the Treasury, may, out of the Small Holdings Account, make

grants, upon such terms as the Board may determine, to any society having as its object or one of its objects the promotion of co-operation in connection with the cultivation of small holdings or allotments.

As the result of this new legislation considerable demands began to be made upon the A. O. S. for assistance in the formation of co-operative small holdings and allotment societies, and the greater part of the time of the staff was engaged thereon, although the organisation of agricultural co-operative societies in other directions called for increased energy and was pushed forward with, if possible, still greater vigour.

It was evident that, under the Small Holdings and Allotments Act, the scope, purpose and future working of the A. O. S. would be very materially affected, and that, unless the Society were enabled to control larger funds than were then available, it could not possibly show itself equal to requirements. An application for a grant was made to the Board of Agriculture, which eventually agreed, with the consent of the Treasury, to a grant of £1,200 per annum for a period of three years from April 1st, 1909, provided that the income of the Society from subscriptions and donations in each year was not less than £1,200. In the event of the income of the Society exceeding that sum the grant to be made by the Board was to be increased by a corresponding amount, with a maximum of £1,600. Further conditions of the grant were that the Society should have a Committee of Management of twenty-four members, including six to be nominated by the Board of Agriculture and two by the National Poultry Organisation Society; and that the Society should appoint at least three organisers for the promotion of co-operation in connection with the cultivation of small-holdings or allotments, one of the three to be conversant with the organisation of co-operative societies for the production and sale of poultry and eggs.

The six members of the Committee of the A. O. S. nominated by the Board of Agriculture were:—Mr. E. J. Cheney and Mr. M. T. Baines (Small Holdings Commissioners), directly

representing the Board; Mr. C. Roden Buxton and Mrs. Wilkins, nominated to represent the Central Small Holdings Society; the late Mr. J. C. Gray (general secretary of the Co-operative Union); and Mr. D. McInnes (secretary of the Midland Section of the Co-operative Union and a director of the Co-operative Wholesale Society), nominated to represent the Co-operative Union.

The National Poultry Organisation Society nominated the Marchioness of Salisbury and Col. R. Williams, M.P., as its representatives.

In further accordance with the conditions on which the grant was made three new organisers were appointed.

D.—RECONSTITUTION.

The concession of State aid through the grant which had been made by the Board of Agriculture was followed by a complete reconstitution of the Society as the result of a subsequent grant under the Development and Road Improvement Funds Act, 1909, and the amending Act of 1910.

Designed to "Promote the Economic Development of the United Kingdom and the Improvement of Roads therein," this new legislation led to the appointment, in May, 1910, of a body known as the Development Commissioners, by whom the objects of the Act were to be carried into effect. This was to be done through the administration of a "Development Fund," created by the setting apart annually of £500,000 from the Consolidated Fund for a period of five years, supplemented by such moneys as might from time to time be provided by Parliament for the purposes of the Act.

Under section 1 (1) it was provided that "The Treasury may, upon the recommendation of the Development Commissioners appointed under this Act, make advances to a Government department, or through a Government department to a public authority, college, school or institution, or an association of persons or company not trading for profit, either by way of grant or by way of loan, or partly in one way and partly in the other, and upon such terms and

conditions as they may think fit " for a variety of purposes, the first-mentioned of which were :—

Aiding and developing agriculture and rural industries by promoting scientific research, instruction and experiments in the science, methods and practice of agriculture (including the provision of farm-institutes), the organisation of co-operation, instruction in marketing produce, and the extension of the provision of small holdings; and by the adoption of any other means which appear calculated to develop agriculture and rural industries.

The A. O. S. being " an association of persons not trading for profit," and having on hand (as will be explained later on) a scheme of Branch Devolution which would involve a complete reorganisation of its work, applied for an annual grant to meet the cost of that scheme.

An interim grant was made on July 25th, 1911, subject to certain conditions which were duly carried out. The Society removed from Dacre House, Westminster, to more commodious premises at Queen Anne's Chambers, Westminster; it made the stipulated appointments, and it obtained extra clerical assistance in order to meet at once the emergency created by the substantial increase then proceeding in the work.

BASIS OF RECONSTITUTION.

The conditions recommended by the Development Commissioners to be attached to a permanent grant to the Society, so far as they referred to its reconstitution on representative and national lines, were indicated in a letter received from the secretary of the Development Commission, dated May 30th, 1911, following on an interview between representatives of the Development Commission and the Society, at which the matter was discussed. Briefly stated, the conditions were as follows :—

1. The reconstitution and registration of the A. O. S. as a non-profit-earning Association under Section 20 of the Companies (Consolidation) Act of 1908.

2. The governing body to be partly elective and partly

appointed, the appointed members being representatives of the Board of Agriculture, the County Councils Association, the Co-operative Union and other representative bodies.

3. On the District Committees, or Boards, to which would be entrusted the local administration of the Society's business, County Councils within the district should be strongly represented.

The letter further stated that the Commissioners were prepared to recommend the Treasury to make annually to the Board of Agriculture such grants as they may be satisfied are necessary for the energetic promotion of co-operation among agriculturists in England and Wales, and that these grants should be paid by the Board to the Society thus re-constituted.

The necessary resolutions for the voluntary winding up of the old Society, under the conditions of the Development Fund grant, were passed at meetings held in April and May, 1912, and a new Society, with the same title, was registered under section 20 of the Companies (Consolidation) Act, 1908. The first Governors have been appointed jointly by the Board of Agriculture and the Development Commissioners, and are to remain in office until the first annual general meeting, to be held after April 1st, 1914. Their present number is not fixed. Those now holding office are as follows :—

Mr. R. A. Yerburgh, M.P., President.

The Earl of Shaftesbury, K.P., K.C.V.O., Chairman of the Governors.

Mr. F. D. Acland, M.P.

Mr. Duncan McInnes.

Mr. Charles Bathurst, M.P.

Mr. George L. Pain.

Mr. S. Bostock.

Mr. Abel H. Smith.

Mr. W. Fitzherbert-Brockholes, D.L.

Mr. Clement Smith.

Mr. Philip Burt.

Lord Strachie.

Mr. E. J. Cheney.

The Hon. Edward Strutt.

Mr. H. C. Fairfax-Cholmeley.

Mr. A. Whitehead.

Mr. J. S. Corbett.

Mrs. Roland Wilkins.

Mr. Rupert Ellis.

Colonel Robert Williams, M.P.

Mr. H. Jones-Davies.

Sir James Wilson, K.C.S.I.

Mr. Cyprian-Knollys.

Subsequently to the holding of the first annual general

meeting of the Society, after April 1st, 1914, the Board is to consist of 36 Governors, chosen as follows :—

Elective (including the President)	..	..	18	
Appointed by the Board of Agriculture	..		12	•
„ „ County Councils Association			2	
„ „ Co-operative Union	..		2	•
Co-opted by the Governors	..	..	2	
Total	..	..	36	•

Power is taken either to increase or to reduce the number of Governors, provided that the same proportion as in the above list is maintained between the elective Governors (that is to say those who have been elected by the affiliated societies) and those appointed by the Board of Agriculture, though the total number is at no time to exceed 60.

It will be seen that, in the first instance, a guarantee of proper expenditure of grants from the Development Fund is assured by the appointment of the first Board of Governors by the two bodies by or through whom the grants are made, while the fact that a number of the Governors so appointed have been chosen from the Executive Committee of the old Society will no less assure a continuity of experience and policy.

By the end of this first period the Society, as re-constituted, will have settled its policy, and have brought about, through its organising efforts, the formation of a much larger number of affiliated societies, and these will naturally expect to have a share in the work of administration. Hence the introduction of the elective element.

The reconstitution of the Agricultural Organisation Society on this greatly expanded scale of usefulness will have the effect of placing on a permanently established basis a movement previously dependent to so large an extent on voluntary support, though aiming at the accomplishment of a really national work.

DEVELOPMENT COMMISSIONERS' POLICY.

In the second report of the Development Commissioners, being the report for the year ended March 31st, 1912, it is stated :—

The arrangements for assisting the organisation of co-operation in Great Britain have been settled in outline. The principle adopted by the Commissioners has been in substance to utilise the existing voluntary societies which have done the work in the past, and entrust its extension to those bodies, reconstituted and strengthened by the admission of representative elements from outside. Two reasons have weighed with the Commissioners in adopting this policy. In the first place, they think that co-operation is particularly the kind of movement to which it is essential to retain the enthusiasm of voluntary workers. They fear that the grant of Government assistance, and the consequent measure of Government control, may to some extent weaken the spontaneous character of the movement ; but they feel that it has a better chance of surviving under the arrangements now made, than if the necessary assistance which the Commissioners were glad to supply had been given to official bodies. Secondly, the geographical and other limitations of the available public authorities, at least in England and Wales, render them inconvenient and probably expensive agents for this particular purpose. The natural co-operative divisions of the country do not follow county boundaries, nor is the area which one organiser and his assistants can cover confined to one county.

Information is given as to the course taken by the Commissioners (on the lines already stated) in regard to the organisation of co-operation among agriculturists in England and Wales during the year covered by their report, and they say concerning the reconstitution of the Agricultural Organisation Society, in accordance with the terms of their grant :—

Owing to legal and other difficulties, the reconstitution of the Society probably cannot be effected before the end of the present summer. Meanwhile the Commissioners propose to recommend such grants as may be necessary to enable the Society to carry on its work pending reorganisation ; when that event takes place they hope that the new Governing Body of the Society will be able to submit a scheme of extension which will command their approval and the Treasury's.

The action of the Commissioners in regard to the Agri-

cultural Organisation Societies of Scotland and Ireland is also recorded.

In June, 1911, the Commissioners considered an application from the Scottish Agricultural Organisation Society (the story of which will be told in the section that follows) for an annual grant of £1,500. It was decided to recommend an advance for the current year equal to the amount spent by the Society from its own funds, but not in any case exceeding £1,000, and with the proviso that the Committee of the Society should be increased by the addition of members nominated by the chairmen of the County Councils and the Scotch Agricultural Colleges; that the Society's operations should be in harmony with the scheme of work of the colleges; that the Society should appoint an additional organiser and have its accounts audited by an approved professional auditor; and that it should give particular attention in organising agricultural co-operation to the needs of small holders in that direction.

The question of assisting the organisation of agricultural co-operation in Ireland was found by the Commissioners to have been rendered more difficult by complications with party politics. An application from the Irish Agricultural Organisation Society for assistance was opposed both by the Department of Agriculture and Technical Instruction for Ireland and by the Irish Council of Agriculture, the latter body passing a resolution to the effect that any money available for agricultural co-operation in Ireland should be granted to and administered by the Department. A draft scheme, which contemplated a grant of £9,000 and the organisation of co-operative associations for the growing of fruit, early potatoes and flax, bee-keeping and lime burning, was prepared by the Department, but the Commissioners "were not satisfied that it amounted to a scheme for the organisation of agricultural co-operation in the sense which they felt bound to attach to those words," and "they could not, therefore, accept it as the Irish counterpart of the measures taken for that purpose in England and Wales and Scotland." At their meeting in March, 1912, the Commis

sioners heard evidence in support of the Irish Agricultural Organisation Society's application, and subsequently, the report adds, "they have recommended a grant of £2,000 to the Society, with prospective further grants, on conditions designed to secure that the Society's work is confined to purely agricultural co-operation, and that it is carried on without the possibility of any suspicion of political partisanship."

In explaining the "Finance of the Development Fund" the Commissioners say concerning agricultural co-operation :—

This expenditure under this head takes the form of grants to the three existing agricultural societies. £50,000 might be sufficient, but it is possible that this sum may be exceeded as co-operation is a subject to which the Commissioners attach great importance.

Finally, in their "Conclusion" the Commissioners say :—

The scheme for agricultural instruction and research, when in full operation, should at least go some way towards organising into a coherent system the more scientific side of agriculture in this country, as the schemes for promoting co-operation should help in organising its more commercial side.

E.—DEVOLUTION.

Reference has already been made, on page 126, to the fact that when the Society approached the Development Commissioners, in 1910, with a view to obtaining a substantial grant from the Development Fund, it had on hand "a scheme of Branch Devolution which would involve a complete reorganisation of its work."

Devolution was then by no means a new idea. There had been an initial development of this principle in 1904, or within three years of the Society being originally constituted. That particular development took place in regard to the work in Scotland.

AGRICULTURAL ORGANISATION IN SCOTLAND.

Under the original plan of campaign, the A. O. S. was to take up the work of agricultural organisation throughout

Great Britain in general, doing alike for England, Wales and Scotland what the Irish Agricultural Organisation Society was doing for Ireland. In this way some early attempts were made to foster propagandist efforts and promote the establishment of societies in Scotland. Owing, however, both to the labour and expense involved in carrying on such efforts from London and to the limited extent of the funds then controlled by the central body, the actual progress was so slight that down to the end of 1904 only a single co-operative Agricultural Society—one, namely, at Tarff Valley, Kirkcudbrightshire—had been formed.

By this time, however, there had been brought about in Scotland a great awakening of interest in agricultural organisation. Captain John Sinclair, M.P. for Forfarshire, had visited Denmark and been so impressed by what he saw and heard that on his return he sought to induce some of his constituents to make up a party to go to Denmark in order to study the position there for themselves and apply, as far as practicable, to their own farming any lessons they might learn from Danish methods.

The reception given to his proposal can best be described in the words of an official report subsequently issued :—

The idea grew. What was a Forfarshire project developed into a project based upon a larger area of interest. The Secretary for Scotland was good enough to agree that a member of the Congested Districts Board and Crofters' Commission should be invited to join the party. Members of Parliament of both political connexions contributed suggestion and aid in the composition of the Commission. Landlords of extensive acres in some cases became members; in others nominated their estate agents; in others, gave the names of tenants. The Highland and Agricultural Society and the Scottish Chamber of Agriculture appointed representatives. From the Agricultural Colleges, east and west, were drawn several members of the teaching staffs. Apart from these, the larger number of the Commission were well-known farmers hailing from all parts of Scotland, many of them with specialised interests, such as dairying, poultry-keeping and cattle-breeding.

Following on the attention which had already been so widely attracted in Scotland, as in other parts of the United

Kingdom, to the general subject, the report made on its return from Denmark by this Scottish Agricultural Commission of 1904 had a powerful effect on public opinion in Scotland.

In praising the Popular High School system in Denmark, the Commissioners thought they could not too strongly impress upon the sons of farmers, and all others contemplating a farmer's life, the necessity for taking a regular course of tuition at one of the Scottish Agricultural Colleges. On the subject of land tenure they thought a sound case was made out for creating a class of small holdings in the hands of cultivating owners. Concerning egg-collecting, they pointed out that the great and profitable egg export trade of Denmark rested upon numerous groups of peasant proprietors and cottagers who kept from 10 to 100 fowls each, and joined in co-operative societies for collecting, testing and marketing the eggs, and they thought that, although in Scotland the keeping of poultry for profit was less general, the practice would rapidly grow were similar organisations formed. Bacon-curing factories they considered to be clearly a phase of co-operation in which farmers might take the initiative to their common advantage, and they recommended the formation of district committees to consider the subject. By the Danish system of improvement of dairy cattle and keeping of milk records they had been greatly impressed, and they hoped there would be a more extensive adoption of the system in Scotland. In respect to State aid, they had found that in Denmark not only the various educational institutions, but all other organisations formed for the promotion of agriculture in its various branches were assisted and encouraged by grants in aid contributed from the National Exchequer, and they were of opinion that lasting benefit would accrue to British agriculture were the present small grants to colleges, dairy schools and experiment stations largely increased, and were the formation of associations for the promotion of rural industries in any practical and efficient manner also stimulated by assistance from the State.

Finally, on the subject of "Co-operation," the Commissioners said :—

Although one great principle runs through all co-operative societies, the operations of that principle vary with the particular objects. There is much information to be gathered from Denmark, as well as from other European countries, which will be found profitable for guidance in the construction of a union, whether for the purchase of farmers' requisites or for collecting and marketing the products of farm, field and dairy. The tendency to greater co-operation is well set, even large farmers confessing its utility, and the tendency must strengthen with time. Of all origins of a co-operative society, the most natural and the best is the local origin—the unpretentious coming together of the few who are persuaded of the suitability of united action to the local conditions. But as an easily accessible source of information, and as an agency for helping the desires of beginners to take shape, an Agricultural Organisation Society would, it appears to the Commission, have a useful place in Scotland.

On January 18th, 1905, a meeting convened by the Scottish Chamber of Agriculture was held in Edinburgh to consider what action should be taken. The meeting was attended by, among others, Mr. Yerburch, President, and Mr. Harris, Secretary of the A. O. S. Mr. Yerburch delivered an address on agricultural co-operation, and an influential committee was appointed to decide upon the best means of promoting the movement in Scotland. The committee met in April and, in turn, referred the question to a small sub-committee. Invited to attend a meeting of this sub-committee, Mr. Harris did so, and presented a memorandum strongly urging that Scotland should have an independent propagandist society of her own.

As the result of all these deliberations it was decided to form a Scottish Agricultural Organisation Society. An appeal for a guarantee fund of £1,000 a year for three years met with a liberal response; the Scottish Agricultural Organisation Society was inaugurated at a meeting held in Edinburgh on October 25th, 1905, and registered on November 16th; active propagandist work was begun early in 1906; the services of the then chief organiser of the A. O. S.

were placed at the disposal of the society during the month of March, and the new organisation became an established success.

For the A. O. S. this formation of a sister society in Scotland was of great advantage, not only in relieving it of responsibility in regard to that country, but also in building up there an organisation which, though separate and distinct so far as regards all Scottish affairs, was affiliated to, and has joined cordially with, the A. O. S. for all purposes of mutual interest and support.

GROWTH OF THE MOVEMENT.

Thus far, therefore, devolution had been adopted with excellent results ; but there came a time when it was found desirable to carry the principle still further.

So great had been the growth of the movement by 1910 that the Society even though it had been relieved of responsibility in regard to Scotland, was beginning to find the work in England and Wales beyond the powers of direction and control of a headquarters' staff in London. Even if a sufficiently large number of organisers could have been kept there to deal with an unwieldy mass of details, the expenditure of much time and money would have been involved in constantly sending those organisers to all parts of the country, while even then they would not have been able to keep in such close touch with new developments as could be maintained by organisers resident in the district.

This position will be more clearly understood from the following table, showing progressive growth, with number of societies, membership and annual trade turnover, since 1901 :—

YEAR.	SOCIETIES.			MEMBERS.	TRADE.
					£
1901	25	517	9,467
1902	41	1,094	16,274
1903	72	3,245	38,909
1904	98	4,926	136,677
1905	123	7,439	221,524
1906	137	8,700	375,000

YEAR.			SOCIETIES.	MEMBERS.	TRADE.
					£
1907	..	..	163	10,500	610,000
1908	..	..	281	15,000	749,000
1909	..	..	321	19,500	860,000
1910	..	..	396	24,000	1,100,000

BRANCH DEVOLUTION.

So, at the end of 1910, this substantial expansion of the Society's activities led to a beginning being made with a fresh devolution policy.

The fundamental principle of the scheme then drawn up was the division of England and Wales into suitable areas, each of which would eventually have a Branch or Advisory Committee (or, as it was called in the first instance, a "Section") designed to link up the local societies and various local interests, and to deal, through its own administration, with all matters of detail in the general organising work within its own area, affording, to this extent, a material relief to the headquarters' staff, though still looking to the central organisation for control, guidance or direction in regard to questions of principle or matters on which expert advice might be desired. Each Branch was to be centrally situated, and was to have its own committee, its own offices, its own secretary, and its own staff of organisers, these officials being members of the headquarters' staff though working under the supervision of the Branch Committee.

While retaining the independence secured to them under their rules, and having their representation on the Branch Committee, the affiliated societies within each area were to be encouraged to look to the Branch office for such advice or assistance as they might need, as there would be obvious advantages in obtaining this advice and assistance in the aforesaid matters of detail from competent officials on the spot, and familiar with local conditions, in preference to having always to apply direct to London.

Apart from these practical benefits alike to the headquarters' staff and to members of the affiliated societies, the scheme would, it was expected, have a powerful effect in

stimulating local interest and the spread of the movement. A closer intimacy with the farmers would be established ; there would be increased facilities for arranging, holding and attending meetings and following up their results ; and it would be possible, not only to watch closer over the welfare of societies already formed, but also to ascertain the exact conditions prevailing in every part of the country, which information would enable the A. O. S. to formulate and carry into effect a propagandist policy on scientific lines, and suited to the needs of each particular district. Then, also, it was thought that a Branch organisation would be able to adjust any difference that might arise between the various societies in its group in regard to overlapping. When societies are engaged in trade and their business is extending there is the risk that they may seek to push that business still further by invading what another society may regard as its own particular territory ; or, alternatively, new societies may be started in areas which existing societies might consider are sufficiently covered by their own activities. Matters of this kind could all be taken in hand by the local branch, with a consequent avoidance of friction and to the advantage of the operations in general.

Finally it was hoped that a further effect of this Branch Devolution scheme would be the securing of a larger amount of voluntary support.

CONSTITUTION OF BRANCHES.

The precise details to be followed in the formation of the Branch Committees were to depend on circumstances ; but, generally speaking, it was proposed that they should include representatives of the County Councils, the Agricultural Colleges, local sections of the Co-operative Union, the railway companies, the A. O. S., and the affiliated societies in the counties included in the Committee's area.

Three Branches have been formed, namely a North Eastern Counties Branch, with Mr. Philip Burt, Assistant General Manager of the North Eastern Railway Company, as chairman, to deal with the whole of Yorkshire, Durham

and Northumberland, which three counties constitute in themselves a recognised area for agricultural produce; a North Wales Branch, with Lord Boston as chairman, for the counties of Anglesey, Carnarvon, Denbigh, Flint, Merioneth and Montgomery; and a Southern Branch, with the Earl of Shaftesbury as chairman, for Dorsetshire, Wiltshire, Hampshire and the Isle of Wight. The total number of Branches projected, to cover the whole of England and Wales, is fourteen or fifteen; though this number might be increased, should the continued growth of the movement render still further decentralisation desirable.

PRESENT POSITION OF THE A. O. S.

The following statistics of co-operative societies affiliated to the Agricultural Organisation in September, 1912, show the position of the A. O. S. at the time when it is passing under the control of the new Board of Governors:—

Among the larger trading societies the Eastern Counties Farmers' Association still takes the lead with a turnover of £258,378. The business done by some of the other large societies in 1911 as compared with 1910 is shown by the following figures :—

	1910.	1911.
	£	£
Southern Counties Agricultural Trading Society .	87,845	107,186
Carmarthen Farmers' Co-operative Society . .	58,210	83,654
Newport (Salop) and District Agricultural Trading Society .	46,551	50,221
Midland Farmers' Co-operative Association . .	30,734	36,094
Clynderwen and District Farmers' Association .	22,949	28,076
West Midland Farmers' Association	24,317	36,848
Framlingham and District Farmers' Co-operative Association .	18,136	23,981
Guildford and Mid-Surrey Farmers' Agricultural Co-operative Association	13,259	14,843

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Societies for the Supply of Requirements of Sale of Produce ..	164
Dairy, Bottled Milk, and Cheese-making Societies	23
Small Holdings and Allotments Societies	180
Agricultural Credit Societies	45
Eggs and Poultry Societies	24
Miscellaneous Societies	14
Central Co-operative Agricultural Bank	1
Agricultural and General Co-operative Insurance Society ..	1
Scottish A. O. S.	1
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The increases in (1) total membership of the affiliated societies and (2) the estimated aggregate money value of the transactions of the various societies in 1911 over 1910, may be shown thus:—

	1911.	1910.	Increase.
Membership . .	31,020	24,000	7,020
Turnover . .	£1,331,083	£1,053,322	£277,761

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CHAPTER VI.

TRANSPORT QUESTIONS.

It will have been seen, from what has already been narrated on pp. 93-4, that the real beginning in England of the agricultural co-operation movement, as known to us to-day, was the invitation extended in 1895 to Lord Winchilsea and other representatives of the agricultural interests to meet Lord Claud Hamilton, the chairman of the Great Eastern Railway Company, and various officers of that company, and confer with them on the general relations of the railways and agriculture. Prior to this conference, it would seem, Lord Winchilsea's efforts were mainly directed to the idea of securing Parliamentary action ; and it may be assumed that it was Lord Claud Hamilton's strong argument in favour of co-operation among the agriculturists themselves, in order to supplement thereby what the railways could or would do in their interests, that led to the movement taking a more practical direction, and one that, notwithstanding initial disappointments, was eventually to result in the widespread acceptance to-day of the co-operative principle.

RAILWAY POLICY.

The action taken by the Great Eastern was followed by a general movement on the part of the leading railway companies in the direction of affording greater facilities to the agriculturists of the country for the transport of their produce.

It led, in the first instance, to the President of the Board of Trade, Mr. Ritchie, inviting the chairmen of railway companies having their termini in London to confer with him, on January 30th, 1896, concerning the question of facilities for the distribution of agricultural produce. The

conference was duly held, and subsequently Lord Stalbridge, chairman of the London and North Western Railway Company, wrote on behalf of the Railway Companies' Association to Mr. Ritchie, explaining the railway position, stating what the companies were doing or were prepared to do, denying the existence of the alleged preferential railway rates for foreign produce ("equal rates under like conditions and circumstances are required by law and are in general operation") and saying, also :—

As to reductions for large consignments, these are now given by all companies, and are provided for in many cases by the General Railway Classification of Goods Tariff. To obtain advantage of the lower scale under these regulations it is not necessary that all the goods in the larger consignments should be of the same description so long as they are in the same class.

Where the general railway regulations do not apply, lower rates for large consignments are frequently conceded by the companies, who desire to make known their willingness to receive and favourably consider such applications.

Combination amongst agriculturalists to increase the weight of consignments is a matter over which railway companies have little control, but they will gladly aid and co-operate in any effective movements in this direction.

On February 14th, 1896, the chairman, Sir George Russell, several of the directors, and the leading officers of the South Eastern Railway Company met, at the Cannon Street Hotel, representatives of the leading agricultural societies and farmers' clubs in the district served by their line who had been invited to come to London and inform the company, in friendly conference, what they would like the railway to do for them. The chairman announced that the company would be prepared to meet the requirements of the agriculturists "frankly, fairly and generously," and he invited suggestions. These were freely made, and resolved themselves mainly into requests for reduced rates, the delegates having previously agreed to ask the company for a reduction, by 25 per cent., of the rates for agricultural produce in general. At the close of the conference the delegates were invited by the chairman to form a committee of twelve to consult further with the company, and, as the final outcome

of the deliberations thus entered upon, the members of the committee were informed, at a further meeting held on March 30th, that the company had resolved to make a number of material reductions in their rates for agricultural commodities, besides putting on a special fruit train to run from Maidstone to London and connect with trains to the north. Mr. Cosmo Bonsor, then deputy-chairman, remarked in regard to these concessions that "a big instalment had been made in the right direction, and what had been done might be regarded as an earnest of what might be done in the future, the company being thoroughly disposed, in the interests alike of themselves and of the country, to encourage by every practicable means the prosperity of the district they served."

On April 21st, 1896, the Great Western Railway Company had a conference at Paddington with leading landowners and agriculturists in the western and midland counties in order to ascertain their views and requirements, among those present being the Earl of Jersey, Sir W. Cameron Gull, M.P., Sir R. H. Paget, Sir A. F. Acland Hood, M.P., and Mr. Rew, secretary of the Central Chamber of Agriculture. Viscount Emlyn, chairman of the Great Western, who presided, said the question of railway rates had been brought to the front by the large amount of foreign competition, and a good deal had been said about advantages given to the foreigner. The Great Western had no desire to give any advantage to the foreigner; but it must be remembered that the foreigner seemed to have gained his footing by sending his supplies in such a form that they could be handled with the smallest possible amount of trouble and cost to the railways. This was found, for example, in the carriage of meat. From Birkenhead to London train loads of meat, representing a minimum of 30 tons, were sent at a 25s. rate, and the farmers living between Birkenhead and London had wanted to know why they could not have the same rate. To this the Company had replied that if only the farmers would send consignments, not in 30-ton, but in 3-ton, lots, the company would quote them a lower rate.

The consideration thus arose whether the farmers could not do something more to aggregate their supplies, and so secure these advantages. There were the further questions of markets and middlemen. A railway company could not take on its own account a course that might interfere with these interests, and thereby prejudice its own ; but if any outside persons or agency would only take action with regard to these matters, the Great Western Company, with its large staff of servants, would be able to afford very valuable assistance ; and he could assure them that the directors of the company would willingly discuss at any time any proposals put forward for dealing with these problems. Lord Jersey, who was among those taking part in the discussion, remarked that " a railway company might offer the greatest advantages, but these would not be of much use unless the producer did something to help himself."

The company followed up this gathering by sending officers into the principal agricultural districts served by the Great Western system in order both to enquire closely into the particular directions in which the agriculturists thought that further co-operation would be of value and to bring prominently to their notice the fact that, by adopting combination instead of acting independently, they might frequently obtain the advantage of rates for grouped consignments lower than those they were actually paying.

The London and North Western Railway Company did not hold a formal conference in London, as the companies already mentioned had done, but it sent, in this same year (1896), representatives to interview personally something like 1,000 farmers having farms contiguous to their railway and to explain to them how, by combining and sending their commodities in bulk, they could already obtain the lower rates they desired. Commenting on this fact at a meeting of the Newport (Salop) and District Agricultural Trading Society on February 9th, 1905—presided over by the Duke of Sutherland, and attended, also, by the Secretary of the A. O. S.—Mr. Frank Ree, then the chief goods manager and now general manager of the London and North

Western, added :—" In spite of the efforts thus made, barely half-a-dozen farmers showed a willingness even to consider the matter, and the renewal of these efforts in 1903 led to no better results than before." As further indicative of the policy of the London and North Western, mention might also be made of the fact that on the publication of "The Organisation of Agriculture," in May, 1904, the chief goods manager sent a copy to each of the company's district officers in agricultural districts; and in January, 1905, a number of copies were forwarded to them with a letter from Mr. Ree, which stated :—

I am sending you to-day copies of Mr. Edwin A. Pratt's book, entitled "The Organisation of Agriculture." Please make use of the books to the best advantage, going so far as to hand a copy to any large farmer or other person concerned in agriculture whom it will be well to educate on the lines advanced by Mr. Pratt.

It will be seen from these examples—without reproducing others which might be given—that, whereas the attitude of the agriculturists on the South Eastern system, when invited to state their requirements, had been simply to ask for a general reduction of rates on agricultural produce, even to the extent of 25 per cent., without any action being taken by themselves, the attitude of the companies in general was to point (1) to the need for co-operation on the part of the producers, and (2) to the possibility of their obtaining, through co-operation, lower rates on the basis of those already existing. These two points—together with the need for more being done to effect co-operation than the railway companies themselves could do—were brought out very clearly in a letter, dated March 25th, 1903, addressed by Sir Joseph Wilkinson, then general manager of the Great Western Railway Company, to Mr. Hanbury, President of the Board of Trade, in reply to a communication sent to the company on the subject of the railways and agriculture. In this letter it was said :—

It is a matter of general knowledge that in the past the farmers have frequently had just reason for being a suspicious body of

men as regards trusting the sale of their produce beyond their own observation ; and a practical and practicable method of overcoming this difficulty would be hailed with satisfaction. It seems to me that an important duty might be performed if the Department could organise groups of agriculturists in various districts who would be willing to join together in forwarding butter, cream, eggs, honey, fruit and vegetables, mushrooms, game, dead rabbits, dead poultry and such-like products to selected markets and manufacturing towns ; the Department, or some subsidiary authority, undertaking the selection of the persons to whom the consignments were to be sent and guaranteeing fair treatment and due payment to the farmer.

It has always been my opinion that any wide and comprehensive movement to be of a useful and lastingly beneficial character to agriculturists ought to emanate from and be conducted by themselves. There have in the last few years been great, stimulating and educational influences at work, and these, combined with certain elements of prosperity that have appeared, are making the farmer more regardful of outside influences than was formerly the case. If he is assisted with a due share of guidance and protection, and (from my point of view) if he is encouraged to believe that the railways would be his best friends if he would co-operate with them and regard them as such, there are great hopes of better times, in any case for the smaller forms of agriculture.

Sir Joseph Wilkinson expressed the view that these sentiments were universally felt by those responsible for the working of railways, always having regard to the varying requirements of the different portions of the country ; and he continued :—

I would add that my company will be glad to meet in friendly conference any agriculturist who may have practical suggestions to make upon any point of mutual interest, and we are prepared to respond to all invitations and to send experienced officers to attend and give information at any and every meeting of farmers which may be summoned or brought about in our districts in connection with the renewed interest that is happily being awakened in agricultural matters.

As will have been gathered from what has already been told in the section on “ Earlier Efforts,” the railway companies were attempting at this time an almost hopeless task in endeavouring to secure combination for transport and sale without that preliminary education of the producers in

co-operative effort which an independent propagandist body like the Agricultural Organisation Society could alone supply. None the less does the sincerity of the efforts made deserve recognition.

LOWER RATES : INCREASED FACILITIES.

The fact must be further recognised that the railway companies which were thus urging the importance of co-operation, and pointing to the advantages in transport to be secured thereby, did, also, concede lower rates in certain directions, and offer increased facilities to the producers in others, with a view to rendering to them such assistance as they then considered practicable.

To meet, for example, a desire which had been expressed for lower rates for fruit, vegetables, meat, poultry, rabbits, butter, eggs and other produce sent by fast merchandise train, new tables conceding such rates were prepared and issued, authority being given to the senders to lump together or aggregate the various kinds of produce under conditions that would allow of such loads being made up as would justify the running of through trucks direct to the towns to be served ; yet one company at least, the Great Western, found that the response of the farmers approached on this subject was not always encouraging, many of them being distinctly averse to any departure from established practices.

The companies were more successful with the special trains which (in addition to ordinary services) they ran to meet the requirements of seasonal traffic, such as broccoli, new potatoes, fruit, etc. Arrangements were also made by various companies for the supply, in return for moderate charges, of hampers, baskets, and cloths for meat and poultry traffic.

It might here be mentioned that, long before Lord Winchelsea came on the scene at all as the self-sacrificing champion of farmers' interests, the London and North Western Company had made special efforts to expand the Aylesbury duck industry, not only supplying cloths and hampers, but

sending a man to collect the produce, carrying it by rail, delivering it to the London salesmen, and even obtaining from them the amount due to the sender, and remitting it to that person. This arrangement was a most convenient one for the senders, who were mostly producers of the "small" type, and in 1880, when the business was in an especially prosperous condition, the accounts thus collected by the railway company for the senders amounted to over £3,000. On the Post Office granting increased facilities to the public for the remittance of small sums, the company found it no longer necessary to act as financial intermediaries for the Aylesbury duck-raisers, who, however, can still obtain from the railway company the hampers in which to send their ducks to market.

Several companies followed the example set by the Great Eastern in establishing the system of consignment, direct from farmer to consumer, of produce packed in non-returnable wooden boxes, of various sizes, supplied at a low charge by the railway company. Thus under the arrangements adopted by the Great Western Railway Company, in 1904, any farmer who wished to send consignments of produce, up to 24 lbs., from a station on the Great Western system to a householder in London, could obtain from the company, at prices ranging from twopence to fivepence halfpenny each, wooden boxes holding just such supply of poultry, eggs, butter, cream, fruit, etc., as might be desired; while the railway company would carry such a box a distance of fifty miles by passenger train, and deliver it, within a certain radius, at the house of the consignee, for an inclusive charge of sixpence.

Some of the companies—including the Great Eastern and the Great Western—also incurred considerable expense in compiling and publishing pamphlets giving the names and addresses of farmers and others on their respective systems who were prepared to supply urban householders with regular or occasional boxes of produce; but the actual results, from a traffic point of view, were disappointing, while the box system itself was adversely criticised by leaders of the

agricultural organisation movement, who held that it tended to encourage individualism on the part of the farmer in place of that principle of co-operation in which the greatest hopes of effecting an improvement in his position were centred.

The policy adopted by the railway companies in regard to the milk traffic is dealt with in the section on "The Dairy Industry," and references to the egg and poultry demonstration car in South Wales in April, 1910, will be found in that on "Eggs and Poultry."

THE A. O. S. AND THE RAILWAYS. "

Much attention had naturally been paid throughout by the A. O. S. to these questions of cost of transport, which it regarded as often being no less important to the grower than the two other items that influence so materially his final balance sheet—namely, cost of production and market prices. Where there is but a comparatively small margin between these two, an undue cost of transport may, of course, convert an otherwise possible profit into a loss.

While, however, there may have been, at first, a certain degree of prejudice entertained towards the railway companies in respect to their transport of English farm, market garden, or dairy produce, further experience showed that, although the action of the railways in regard, more especially, to various matters of detail, might still afford scope for criticism, the great need of the situation was, not to abuse the companies for their unwillingness to carry produce at unremunerative rates, but to induce the agriculturists themselves to adapt their business to the transport conditions which would enable them to secure the lower rates already often available, provided these conditions were fulfilled.

The complaint as to preferential rates, which had formed a leading item in Lord Winchilsea's original programme, appeared less substantial to the Society when it was looked at from the points of view here suggested ; but there came

a time when it was thought producers still had a grievance against the railway companies, inasmuch as, even when the societies were able to give very large orders for fertilisers, the companies would not quote lower rates than those that applied to much smaller quantities.

To this it was replied by the companies that when they fixed their minima for specially low rates at ten, four, or even at only two tons, they did so with the idea of enabling the small as well as the large producer to take advantage of them, and with the full expectation that large consignments, to which the rates would equally apply, would still be sent. It was further declared that the British farmers who could consign in 2-ton or 4-ton lots were being granted special rates which on Continental railways might be conceded only in respect to 5-ton or 10-ton lots, such concessions being made by the English companies to meet the agricultural and trading conditions of this country; but there was no idea on the part of the companies that, as soon as consignments of 10, 20 or 40 tons or more could be made up, fresh series of minimum rates should be fixed to apply to these greater quantities. One company, in fact, protested that its rates for 4-ton lots of fertilisers or other agricultural commodities had been fixed at "a very low basis which left no room for further reductions for lots of more than 4 tons."

As for any occasional huge consignment of fertilisers or other commodities which required the running of a special train, traffic of this sort was affirmed to be less acceptable to a railway company than the consignment of a few additional truck loads at a time, over a series of days, inasmuch as the special train would involve a certain amount of dislocation of the regular service, whereas the extra truck loads day by day, added to the ordinary goods trains, would not interfere with the regular service at all, and would, also, cost less, in proportion, in the way of working expenses.

The policy of the A. O. S. in regard to these questions of rail transport thus resolved itself mainly into one of showing

how, by means of combination for the sending of large, in place of a series of small, consignments, material savings might be effected on the basis of existing railway rates, apart from any question of appealing to the railway companies for further concessions.

SAVINGS ON RAIL TRANSPORT.

Many examples of the economies possible in these directions came under notice.

Reference has already been made, on pp. 143-4, to the meeting of the Newport (Salop) and District Agricultural Co-operative Trading Society on February 9th, 1905, at which the present general manager of the London and North Western Railway was one of the speakers. In addition to the matters mentioned as having been touched by him on this occasion, Mr. Ree further stated, on the subject of railway rates for agricultural produce, that a table which had been prepared by his company, giving details as to the traffic in the Newport district and the actual rates paid per consignment by the farmers, showed that, under the conditions then existing, over 80 per cent. of the consignments were carried at the higher rates on the company's rate books, and only 20 per cent. at the lower. By means of combination, in order that consignments could be sent in large quantities coming within the range of these lower rates, the small farmers who were members of that society could save something like 19 per cent. on their payments for rail transport.

In the issue of *Co-operation* for October, 1910, reference was made to the fact that the 90 members of an agricultural co-operative society had been found to be sending each his own particular lot of produce to one and the same market. Such individual consignments generally averaged about half a ton, the charge for which, at the rate of 9s. 2d. per ton, was 4s. 7d. There was, however, a special rate of 6s. 3d. per ton for consignments of not less than 4 tons, and it was shown that if eight growers each put his half-ton lot

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to make up this minimum the saving effected would work out thus :—

	TOTAL COST.			COST PER SENDER.	
	£	s.	d.	s.	d.
8 consignments in separate $\frac{1}{2}$ -ton lots	1	16	8	4	7
8 consignments in one 4-ton lot..	1	5	0	3	1 $\frac{1}{2}$
	<hr/>			<hr/>	
Saving	11	8		1	5 $\frac{1}{2}$

The average weekly payments per grower for rail transport came to £1, and the average annual saving per grower made possible by the figures just given would have been £17. Multiplying this by 90, the number of members in the society, it will be seen that the total saving per annum that might have been effected by them in railway rates, by means of combination, and without their asking for any further concessions, was no less than £1,530.

The following further example of possible savings in the same direction has been thus recorded by one of the organisers of the Agricultural Organisation Society :—

As the result of an arrangement between the Cambridgeshire County Council and the A. O. S., I paid a series of visits to that county in the spring of 1911. The first place I visited was Cottenham, where I found that the small holders were at a great disadvantage in matters of transport. They were consigning—mostly vegetables—at a rate of 15s. per ton to London, for small quantities, and at one of 26s. 6d. per ton to Manchester. I pointed out to them that there were special rates of 7s. 1d. per ton to London and 15s. 5d. per ton to Manchester, which would enable them to effect a material saving if only they adopted the principle of co-operation and grouped their consignments into the stipulated quantities. They acted on my suggestion, a whole season's produce has since been despatched from Cottenham at the lower rates, and the small holders have expressed the warmest thanks for having the matter brought to their notice.

Thus the Agricultural Organisation Society has often succeeded where the railway companies themselves had previously failed in bringing about the combination needed for taking advantage of lower rates already on the companies' books ; and this result may be attributed mainly to (1) the distrust with which the naturally suspicious mind of the

British agriculturist had regarded the earlier advances made by the railway companies—a distrust inspiring the idea that the companies were merely seeking some advantage for themselves; and (2) the absolute need for independent educational and propagandist efforts as a means of converting the producers from their old prejudices, of bringing home to them the practical advantages of combination, and, still more, of providing the machinery by which such combination can be carried into effect.

MOTOR SERVICES.

One interesting development in the application of combination to transport is represented by the motor wagon service established in 1904 by the North Eastern Railway Company as a means of communication between their railway system and the depôt—now a commodious building—of the Brandsby (Yorkshire) Agricultural Trading Association, Limited. The service has been of great advantage in many ways to growers in the district, but the inauguration of it would have been wholly impracticable had there been no local society to group consignments, to bulk orders for requirements, and otherwise to organise the traffic generally, supplementing efficiently, in these respects, the means which the railway company themselves were prepared to adopt in the joint interests of the agriculturists and of their own traffic.

A like service was also established by the Great Western Railway Company in the Teme Valley; but in this instance the results were not considered sufficiently encouraging to warrant the continuance of the arrangement. There would, in fact, seem to be a tendency on the part of agriculturists to assume that, when a railway company provides the motor wagon, they need only send by it when their own horses, vehicles and drivers are otherwise engaged, the consequence being that there is a risk of a regular service not paying expenses. Whatever the reason, it is a matter for regret that these motor services have not been established far more generally.

RAILWAY STATION DEPÔTS.

Another outcome of organised effort is to be found in the setting up at country railway stations of depôts to constitute the headquarters of the local agricultural co-operative society in the collection, storing or distribution of members' produce or necessities consigned or received by rail.

In the first instance the railway companies themselves constructed these depôts, and charged the societies a rental sufficient to cover interest on capital expenditure. There arose, however, the risk that a want of success on the part of a local society might leave the depôt on the hands of the railway company. The societies, in turn, say that in certain instances the railway companies, in their desire to assist the movement, incurred greater expenditure in connection with the depôts than was really necessary. More recently the railway companies have been reluctant to provide the depôts at their own cost, though they have offered facilities to the local societies to build depôts for themselves by letting them have the necessary land in return for a nominal rental; and this, probably, will be found the better arrangement.

In one or two instances the difficulty has been solved by the railway company partitioning off part of an existing goods shed at a country station, and letting such portion to the local society. In still other places, where only a limited amount of accommodation has been required for such purposes as egg collecting and grading, the railway company have provided for the society—and again at a nominal rental—an old goods van which had been retired from active service on the line.

At Holsworthy (Devonshire) the London and South Western Railway Company constructed some years ago, on their station premises, a slaughter-house for the convenience of dealers purchasing fat cattle in the district, the cattle being taken to the station, killed in the slaughter-house, and consigned by train in such quantities to the London markets that at certain times of the year six or eight truck loads of meat are dispatched. The members of the local agricultural

co-operative society, being under the impression that the slaughter-house could be used by the dealers only, requested the Society to approach the London and South Western Railway Company with a view to the provision of similar accommodation at Holsworthy station for its own members. A deputation accordingly waited on the chief goods manager of the railway company, who replied that the members of the society were entitled to use the slaughter-house equally with the traders on their making the payments fixed by a scale of moderate charges, and the officer in question added that if the society could make any suggestion as regarded additional accommodation on other parts of the line, and could show that the provision of it would not involve a loss, he would gladly support any such application that might be made to his company.

CLASSIFICATION OF CUCUMBERS.

Then an important concession has recently been obtained from the railway companies in an altered classification of cucumbers which, though of special benefit to the Worthing and District Market Growers' Association, applies to the lines of all the companies connected with the English Clearing House system, and is thus of far greater value than a concession in the interests of Worthing only would be. The Worthing Association, it might be added, was originally formed mainly to enable the growers to secure the lower rates offered by the London Brighton and South Coast Railway on bulk consignments of grapes, tomatoes and cucumbers.

FRUIT TRANSPORT.

In another direction the Swanwick (Hampshire) Fruit Growers' Association adds to its other useful functions by making known to the railway companies the needs of the district with reference to the fruit traffic and by seeking to bring about the general use of baskets of uniform size and holding standard weights of fruit.

RAILWAY CO-OPERATION WITH THE A. O. S.

Mention has already been made of the fact that Mr. Philip Burt, Assistant General Manager of the North Eastern Railway Company, is chairman of the North Eastern Branch of the A. O. S. and a member of the new Board of Governors.

To show still further the practical assistance which the railways are giving to the movement, it might be added that Mr. G. T. Phizackerley, District Traffic Superintendent of the London and North Western Railway at Chester, has been appointed on the executive committee of the North Wales Branch of the A. O. S., and is showing great activity in promoting the movement in that part of the country. It is, in fact, understood that the London and North Western Railway Company are taking considerable interest in the work of the Agricultural Organisation Society, that the whole tendency of their policy is to encourage the formation of agricultural co-operative societies, and that they have, from time to time, given to their officers definite instructions—recently renewed—to offer every encouragement to, and every facility for, the setting up and successful operation of such societies, this line of action to be taken throughout the company's system.

With direct representation of the railway companies, not alone on the Board of Governors of the A. O. S. but, also, on all the Branch committees which, it is suggested, should eventually be formed to cover the whole of England and Wales, the possibility of ensuring harmony and co-operation in the mutual relations of agriculturists and the railways, to the advantage of both, should be still further very materially increased.

ROAD TRANSPORT.

Cost of transport by rail is, in many instances, only one of two important items of expenditure in getting produce from farm or small holding to market, the other being cost of transport by road, either as between farm and railway station or as between farm and market, the latter provided that the commodities can be sent the entire distance by road.

When the individual farmers or small holders are left to their own resources in getting their produce to the railway, it may happen that the cost, even although the station is only a few miles away, will work out at a higher rate per ton than the charges for consignment by rail to destination. For instance, the sums per package paid by a group of small holders at Cottenham, Cambridgeshire, for the transport of their individual consignments of potatoes and vegetables to Oakington station, on the Great Eastern Railway, situate only two miles away, were found to represent a road transport rate equal to about 24s. or 25s. per ton ; whereas the same produce was being carried by rail from Oakington to London, a distance of 62 miles, at a rate, for small consignments, of 15s. per ton, which would have been reduced to one of 7s. 1d. per ton if the senders had made up consignments of 4 tons.

Should a district be situated at any distance from a railway station with which frequent communication is maintained, great advantage is to be derived from the setting up of a motor wagon service, in combination with a local co-operative society, for the collection and transport of the produce of farmers and small holders within a certain area, thus relieving them of any need for making individual arrangements ; and the advantage is greater still when the same service can be used for bringing from the railway, on the return journey, commodities necessary for use on the farm or holding.

LIGHT RAILWAYS.

Light railways constitute another phase of the transport problem, and one which, as an alternative either to motor wagons or to the much more expensive type of ordinary railways, is certain to attract increased attention in the near future.

Road motors, operated in conjunction with an agricultural co-operative society, may, indeed, to a certain extent be regarded as the precursors of light railways inasmuch as

their tendency, under an efficient system of operation, is to expand the traffic to such an extent that a motor service may become no longer adequate in the course of a few years, and the need will then have been created for still further facilities which a light railway would be best adapted to supply.

These conditions are well brought out by the Light Railway Commissioners in their fifth annual report to the Board of Trade on their proceedings to December 31st, 1911, wherein they make the following references to motor traction, light railways and co-operation in agriculture :—

With regard to the great development in recent years of motor traction upon public roads, it is of interest to note that, in our experience, confirmed by the two cases of proposed light railways which we have most recently had under consideration, the establishment of a service of motors (in each case combined with the organised co-operation of the agricultural and other local industries) has tended to stimulate the desire, and to emphasise the need, for better railway facilities, rather than (as it is sometimes supposed would be the case) to supersede them, or to take their place. In these cases evidence was brought to show the considerable extent of saving to the road authorities in the annual cost of maintenance which would follow from a transference to a railway of the traffic otherwise carried on the public roads ; this point was also in accord with our previous experience as bearing on the economy of transport by railway.

In making these observations, we appreciate that in districts where it is not practicable to construct a railway, and where the traffic is not sufficient to support one, a motor service (especially when combined with some "co-operative" system) may be of much use, and in many cases would develop the traffic to a point at which railway facilities would become requisite and feasible for the further progress of the district.

One especially significant example of the tendencies in question is afforded by the aforesaid Yorkshire village of Brandsby, where the success of the motor service connecting with the North Eastern Railway system has led to an application being made to the Light Railway Commissioners for an order sanctioning the construction of a light railway. An enquiry into the matter was held by the Light Railway Commissioners at York on February 20th, 1912.

It was shown at this enquiry that the motor wagon service

is now carrying about 2,000 tons of goods a year for the Agricultural Association established at Brandsby, the population of which place is 325. Not only has the service been of great practical advantage, but it has become wholly unequal to present requirements. In certain parts of the district which cannot take advantage of the service at all the cost of haulage to or from the railway is prohibitive. Farmers there are obliged to be content with making butter, though they would gain more—if only adequate facilities were available—by sending their milk to York, which is the natural market for the district. In some localities, through which the proposed light railway would pass, the only direct communication with York is by a carrier's cart, occupying three or four hours on the journey. Farmers at a distance of five or six miles from the railway are unable to obtain, at a sufficiently low cost for transport, the manures which would increase the production of their crops. Even at Brandsby itself the farmers may be deprived of the use of the motor wagon when, in wintry weather, the roads are impassable.

Hence the proposal for a light railway. Starting from Brandsby it would have a total length of nine miles, and connect with the North Eastern system at Haxby, four miles north of York. The district it would serve comprises 20,000 acres, and has a population of about 3,000. In this district there are eleven villages, the present average distance of which from a railway is five miles. The line is to be a full gauge one ; it will have three stations and two halts, and it will be operated with a single engine, (steam), and practically without signals. The estimated cost is £34,000, including £1,500 for land and £2,500 for contingencies. It is proposed to raise £36,000 by ordinary shares and £12,000 by debentures.

In regard to prospective traffic, the Brandsby Agricultural Trading Association itself expects to provide at least 3,200 tons a year. A good milk traffic is anticipated ; the greater use of manure should ensure more traffic in itself and further increase the output of produce available for

transport ; improved facilities for travel should develop the residential possibilities of the district, while a still further argument put before the Light Railway Commissioners in favour of the proposed line was that a light railway would save the local rates by lessening the wear and tear of the roads.

So conclusive was the case thus made out in favour of the scheme that the Commissioners had no hesitation in deciding in favour of granting an order authorising the construction of the line. This order they have since made and submitted to the Board of Trade for confirmation.

The position at Brandsby is deserving of this detailed reference because it is, in many ways, typical of the position of many agricultural districts throughout the country, and, also, because it foreshadows what may be expected to happen in other places where an improvement in existing transport facilities is begun with an organised motor wagon service under some mutually satisfactory arrangement between a railway company and an agricultural co-operative society, itself receiving the loyal support, in this particular matter, of members seeking, if only in their own interests, to make the scheme a success.

The main-line railway system of the country may be regarded as practically complete ; but there is still great need for the building of more light railways which would link up undeveloped or inadequately developed districts where railways of the ordinary type would not pay, while the choice for such light railways of the standard gauge of main line railways would allow of a ready transfer of rolling stock from the one system to the other.

The whole subject is so intimately connected with the welfare of agriculture, with the possible success of colonies of small holders, and with the further development of our national resources, that it may well claim the special study and attention of the Agricultural Organisation Society.

FROM FARM TO MARKET.

With the improvements brought about in motor construction and in the roads of the country there is certain to be a

considerable development in the transport of farm and market garden produce by road in place of transport by rail. The new conditions allow of a steady expansion of the suburban area within which such road transport is practicable, while the railway companies, with their heavy outlay on lines, stations and goods depôts, and the increase in their wages bills, taxation, and other items falling under the head of working expenses, are heavily handicapped in meeting the competition of a road transport that, among other advantages, has fewer expenses to cover and can convey produce direct from farm or local depôt to market.

On the other hand it has to be remembered that the possibilities of road transport are still limited by distance ; that where agricultural produce is carried in large quantities the locomotive, counting as a single unit, may still be a more economical form of transport than an equivalent number of motor lorries, each counting as a separate unit ; that in proportion as the increasing road traffic takes business from the railways, the latter may seek compensation by encouraging still further their long-distance traffic, with a corresponding effect on the markets, and leading to still greater risks of gluts thereon, unless precautions are taken along the lines of a scientific marketing of agricultural produce operated through the agricultural co-operative societies which the A. O. S. has sought to establish, and that, as the example of Brandsby shows, the setting up of an organised motor service may, for a variety of reasons, be only the precursor of demands for increased rail facilities.

CHAPTER VII.

WORK DONE OR PROJECTED.

A.—CO-OPERATIVE SALE.

As compared with the simpler forms of the co-operative principle represented by combination for the joint purchase of agricultural necessities, co-operative marketing is a matter involving great complexity and presenting manifold difficulties.

Assuming that production has been conducted under the best and most economical conditions, and the crop duly harvested, there is presented, in the first instance, the question of grading.

What this may mean to the grower can be illustrated by the concrete fact that a certain expert market gardener who grades most of his produce and sells it to a wholesale dealer, received, in 1912, £5 10s. a ton for his graded potatoes at a time when the ordinary market price was only £3 10s. per ton. As the crop he had grown would work out at about seven tons to the acre, this higher price meant for him a difference of £14 an acre in his receipts.

Packing is the next consideration. Foreign fruit may find greater favour on the market than the English, not because it is of better quality, but because it looks better in the well-packed boxes in which it is sent over.

Combination for the bulking of a collection of small lots—all going from the same country station to the same town—into a grouped consignment in order to obtain the lowest available railway rates, is no less essential if transport is to be secured under the most favourable conditions.

Then comes the question as to whether the produce shall be sold on the spot or sent away to be sold in a town.

In the former case the grower may not get the best

possible prices should he be left to his own resources in dealing with the middleman buyer.

In the latter case he ought to know which will be the best markets for him to send to—that is to say, not simply the best markets as a general rule, but the markets where his produce would be most likely to bring a good return on the day when it will be sold. Whatever their advantages under ordinary conditions, Covent Garden and the markets at Manchester and Liverpool might be already overstocked with the very commodity which a particular grower thought of sending to them, and he might—if he only knew the exact condition of the markets at the moment—have a far better chance by sending elsewhere. So important, in fact, is this knowledge of the position both of markets in general and of markets from day to day that the spending by the Peninsular Products Exchange of Maryland, U.S.A. of £2,000 a year merely on gaining this information for its growers must obviously be regarded as money well laid out, since otherwise it would surely be saved.

Having ascertained the best markets to send to, the producer still wants to be assured that he will get a thoroughly trustworthy return on the sales effected.

In the past most of these essentials to good marketing have been applied by enterprising traders who, taking advantage of the inexperience or the inefficiency of the growers, have themselves “organised” collection, transport and marketing on thoroughly business lines, but mainly to their own advantage, representing in this respect still another development of these great commercial interests which have grown up alongside of agriculture in its latter-day expansion on more scientific lines, and have flourished on its growth, once more annexing profits of which the actual producers should have retained a much larger share.

These intermediaries performed a useful function as distributors so long as the growers were unable, by reason of their extreme individualism, to collect, distribute and market efficiently for themselves. When, in fact, the railway companies began to urge the farmers to combine in

order to take advantage of the lowest available railway rates, they were simply advising them to do what had already long been done by enterprising middlemen who bought up the produce from a number of growers, graded and packed it, and sent it away in the quantities which allowed of consignment by lower rates than the individual grower could get for his own particular lot. It was not only, therefore, that *foreign* produce was carried by rail at a lower rate, by reason of its bulk, etc., than the British farmers' small lots, but the same was the case, also, and for exactly the same reasons, in regard to collections of *British* produce, grouped by British middlemen.

So the obvious course for the producers to adopt was to be found in combination with a view to their doing for themselves much, if not most, of what the middleman was doing, and putting all they could of the intermediate profits into their own pockets ; but this meant, not simply combination for transport, but combination throughout the full and complete list of essentials specified above.

That this result could only be brought about by such a body as the Agricultural Organisation Society was self-evident ; yet the difficulties to be overcome might well have been regarded as almost insurmountable.

On the one hand there was the rooted prejudice of the agricultural mind to all innovations ; there was the inveterate suspicion of any new ideas coming from the towns ; there was the habitual distrust of neighbours and competitors.

On the other hand there was the fact that, as the direct result of the inadequate attention the farmer had paid to the science of marketing in the past, there had grown up those powerful vested interests which, though flourishing upon his output, might well oppose the idea of surrendering any of the advantages they had obtained.

Influenced by considerations such as these, and ever bearing in mind the unfortunate trading experiences of Lord Winchilsea, with their tragic consequences in helping to bring his career to an untimely end, the Agricultural Organisation Society decided from the outset against any

hasty action in the development of schemes for co-operative sale. In the course, however, of eleven years' experience, the Society has accumulated valuable information and expert knowledge which might be utilised in the development of this especially difficult phase of co-operative effort, and the question arises whether much more should not now be done in this direction.

WHAT HAS BEEN ACCOMPLISHED.

A few examples might be offered by way of indicating what is already being done in the way of co-operative sale of fruit and market-garden produce.

The East Anglian Farmers, Limited, was originally formed, in 1900, as the East Anglian Farmers' Co-operation, with the object of affording an outlet for the sale of its members' produce, in large or small lots, at Stratford Market, in the East of London. It acquired its initial experience at the price of some heavy losses, but has since profited from them so well that it is now selling, not alone for its own members, but for several societies of small holders. It also does business, on commission, for growers generally. For 1910 the society paid a bonus of 3 per cent. to all members on the value of the produce sent in by them, and in 1911, when its turnover amounted to £28,000, one of 2½ per cent. The society has now opened a branch in Covent Garden Market. The committee of management consists of representatives of agricultural co-operative societies and of industrial co-operative distributive societies, together with individual members.

The Federated Growers, Ltd., was formed in 1910, at the instance of a number of fruit growers, market gardeners and agricultural co-operative societies, with headquarters at Smithfield Market, Birmingham, to provide better outlets and greater facilities for the disposal of produce. It operates on lines similar to those of the East Anglian Farmers, but as yet is only in its initial stage.

At Pershore, Worcester, a satisfactory local solution has been arrived at in a marketing problem which had caused

a considerable degree of perplexity and dissatisfaction. Pershore is in the centre of a great plum-growing district, about 4,000 acres there being devoted to fruit-production or to market-gardening ; but the arrangements for disposing of the fruit were for a long time unsatisfactory, the growers often failing to obtain what they considered an adequate return on their enterprise. There was but one local market available, and that at Evesham. They could, also, dispose of some produce at Worcester ; but this meant a journey of four miles in the former case, and one of seven miles in the latter. They had the further alternative, which some of them adopted, of consigning to Birmingham, Manchester, or Liverpool for sale there on commission ; but here, again, the results were too often unfavourable. The growers also felt that some of their produce, which has a high reputation, suffered from being sold with inferior qualities from other districts.

With the help of the Agricultural Organisation Society, a co-operative fruit market was organised at Pershore in June, 1909, a society being established for that purpose by a group of growers whose holdings range from a fraction of an acre to 100 acres ; and arrangements were made for selling the fruit in this market as occasion required, (generally about three days a week), without sending it away for sale elsewhere.

At first it was thought there would be some difficulty in getting buyers from distant towns to attend ; but this has not been the case. As soon as the buyers found they could purchase, under the hammer, produce of a guaranteed standard, the success of the market was practically assured, while the growers realised better prices, and disposed of their produce under more satisfactory conditions generally, than had been the case before.

So well has the scheme answered that in 1911 the Pershore Co-operative Fruit Market, Ltd., as the society is called, had a turnover of £11,000, paid 5 per cent. to the shareholders, carried 25 per cent. to a reserve fund, presented 5 per cent. to the employees, and gave to the members a bonus equal

to $1\frac{1}{4}$ per cent. of the profits, on the value of the produce they had sent in for sale.

Incidentally it might be mentioned, in connection with the Pershore co-operative auction market, that whilst the commission system will, no doubt, always remain as a means of distributing fruit and market garden produce, many salesmen are finding that they cannot get, on the commission principle, all the produce they want, and they have, therefore, of late years, purchased largely at fixed prices direct from the grower; though these fixed prices have in many instances been considerably below what the grower might have got had a rural auction market been available. Hence the special significance of the course taken at Pershore; though, in effect, the growers there did no more than follow, consciously or otherwise, the example already set—and with no less success in their case, also—by the fruit and market garden produce growers of Holland.

At Nantwich (Cheshire) a problem closely resembling that which arose at Pershore, but relating to a different class of produce, is being dealt with. The Urban District Council own a market building in which a general market is held every Saturday; but Saturday is too late in the week for the purposes of a wholesale market for farm and garden produce, poultry, eggs, etc., and local sellers and buyers of such produce have hitherto had to go to Crewe (4 miles distant), Sandbach (8 miles), and other places. What was specially desired was that Nantwich should have a weekly wholesale market of its own which would not only serve local purposes but attract buyers from Manchester, Liverpool, and other large towns of Lancashire and the Staffordshire Potteries. Such desire has now been attained through the formation, again with the help of the A. O. S., of a co-operative society known as the Nantwich Wholesale Produce Market, Ltd., at whose disposal the Urban District Council have placed their market building in return for a nominal rental.

Altogether there are over twenty co-operative societies

which are at the present time engaged in the sale of fruit and market garden produce for their members ; and it is evident that those difficulties in the way of inducing British growers to combine for the purposes of sale which once appeared so great are now being steadily overcome.

NEED FOR FURTHER ACTION.

The special need to-day for further action being taken in regard to co-operative sale is due to the expansion of the small holder movement.

Production of fruit and market garden produce must be considered the mainstay of the small holder growing commodities for the market since he will require, by means of a more intensive cultivation, to obtain a larger return per acre from his land than would satisfy the ordinary farmer ; yet the fact is recognised by all who are concerned in agricultural organisation that if more and still more supplies of such produce are merely sent to the existing markets, under existing conditions, the results may be unsatisfactory for producers all round.

So the small holdings societies affiliated to the A. O. S. have been looking to that body for advice and assistance, and, as a result, the East Anglian Farmers and the Federated Growers, referred to above, have had special attention paid to them in the hope that they would provide outlets for the produce of the small holdings societies.

The first proposal was that each should act as the central body for societies within its district, those societies being affiliated to it and forwarding to it, for sale, the collected produce of their members, the sum total thereof providing the requisite varieties and quantities for ensuring satisfactory trading. The different societies in each district were invited to fall in with this arrangement. It was further designed that similar central societies should be formed, under like conditions, in other districts.

Experience has shown, however, that in order to do an adequate business a central society for sale must draw supplies from places beyond its own particular district ;

and this fact has already led to an overlapping which must needs increase as more societies of this same type are formed. Then there is the further difficulty that inasmuch as the central marketing society receives supplies only from small holders' societies in affiliation with it, the latter must, as at present arranged, become affiliated with every central society with which they may seek to deal in their desire to consign to a variety of markets. This means an increase in those working expenses which it is one of the main purposes of agricultural organisation to keep as low as possible, and in more than one instance members of the local societies have been deterred from consigning to the co-operative depôts, and have dealt with private salesmen elsewhere.

THE SMALL HOLDERS' OPPORTUNITY.

That organisation on national lines would be the small holders' opportunity is suggested by two examples typical of the conditions under which the members of many a colony of small holders now settled on the land are struggling to make a living under conditions in which they may be hopelessly handicapped by lack either of proper guidance or of adequate facilities.

In the one instance a group of small holders cultivate, altogether, 194 acres (giving an average of from ten to twelve acres each), on which they grow potatoes for sale. They produce, however, on this quantity of land, no fewer than nine different kinds of potatoes, with the result that each grower must hawk round and dispose of his own particular stock as best he can, since the wholesale dealers will not look at such a collection of varieties. In a case of this kind a National Organisation would advise the growers to confine their attention to one or two kinds of potatoes only; and, when they had grown a sufficiently large crop thereof to be worthy of consideration on a wholesale market, the means would be available for them to dispose of the output at a co-operative dépôt or otherwise

with the least trouble to themselves and the best assurance of a fair return on their labour.

In the other instance about thirty small holders have settled on some Crown lands in Lincolnshire, situate about five miles from the nearest railway station. They formed a co-operative society for purchase in March, 1912, and within six weeks they had saved £15 on the clover seed and manures they had bought in common; but, under existing conditions, each provides for the transport of his own particular lot of produce to the railway station, *en route* for his own particular salesman in London or the northern counties. Each thus requires to keep a pony and trap or a donkey and cart, though sometimes one of them will confer a favour on a neighbour by taking his consignment for him, and saving him a journey. Allowing both for the actual cost of cartage to the railway station and for the time that may be lost through the majority of the group having to be their own carriers, one sees how (apart from the risks of marketing) the people who are being encouraged to go "back to the land" may be faced from the outset by practical difficulties in the path of success unless they resort to co-operative effort in regard, not simply to one phase, but to all the various phases, of their activity as producers.

In addition to fruit and market garden produce there are other branches of agricultural production—the dairy industry, eggs and poultry, live stock, grain, hay, seeds, etc.—in regard to which co-operative sale has already been organised, and there are others, more especially wool and hops, for which co-operative sale is projected. These will be dealt with in the sections that follow.

B.—THE DAIRY INDUSTRY.

One especially important phase of scientific marketing of agricultural commodities relates to the sale of milk.

Mention has already been made of the fact that the British farmer gains more from the sale of whole milk than

he would from converting the cream from it into butter, and it has, also, been shown that imports of whole milk from the Continent constitute a negligible quantity, so that in this respect, at least, our dairy farmers have nothing to fear from such foreign competition as they would meet with in regard to butter.

Under these conditions, and as shown by the latest available figures—those for 1908—70 per cent. of the total milk production in Great Britain is sold as whole milk, 20 per cent., it is estimated, is used for cheese-making purposes, and 10 per cent. for butter and cream. As for the financial aspects of the industry, the figures already given on page 61 show that the value of the 850,000,000 gallons of whole milk estimated to have been the output in Great Britain in 1908 was no less than £24,820,000.

MILK TRAFFIC ON RAILWAYS.

There is difficulty in grasping the full significance of these figures. A more concrete idea of what the milk industry really means may, perhaps, be gained by showing (approximately), as is done in the following table, the proportions of the milk traffic on four of the leading railway systems of the country in 1911:

RAILWAY COMPANY.	NUMBER OF CANS CARRIED.	IMPERIAL GALLONS.	PROPORTION RECEIVED IN LONDON.	
			Cans.	Gallons.
Great Western ..	3,176,416	47,636,240	1,273,100	19,096,500
London and North Western ..	2,600,000	34,000,000	870,000	11,300,000
Midland ..	1,386,000	17,505,000	481,700	6,478,000
Great Eastern ..	924,421	13,866,315	166,750*	2,501,250*

* Figures for Liverpool Street station only, exclusive of London suburban stations.

No less remarkable is the extent of the area over which the milk industry is distributed. At one time the dairy

farmers, dissatisfied with the profits they were making, began to lay the blame on the railway companies, and the latter sought, in or about the year 1896, to meet them by, among other things, codifying a previously complicated system of charges, and bringing the milk rates within a mileage scale which works out thus, per imperial gallon :—

Up to 20 miles .. .. .	..	..	..	$\frac{1}{2}d.$
Above 20 miles, and up to 40 miles .. .. .	..	..	..	$\frac{3}{4}d.$
.. 40	100	..	..	$1d.$
.. 100	150	..	..	$1\frac{1}{4}d.$
.. 150 miles, irrespective of distance .. .. .	..	..	..	$1\frac{1}{2}d.$

Minimum charge, as for 12 imperial gallons per consignment.

Fractions of a gallon to be charged as a gallon for each consignment.

Fractions of $1d.$ to be charged as $1d.$ for each consignment.

One effect of this revised scale of charges has been that beyond 150 miles the distance from which the milk may come makes no difference in the railway rate. The most distant point from which milk has been brought to Euston is Toome, in Ireland, a station on the Northern Counties Committee (Midland) Railway, 513 miles from London. On the Great Western Railway, 1,549 cans were brought to Paddington during 1911 from St. Erth, Cornwall, 320 miles from London, while there is a regular milk traffic on that line of railway from places about 130 miles distant. The bulk of the milk supply for London comes from farms within a radius of from 40 to 100 miles, and would thus cost for rail transport an average of one penny per gallon.

In addition to putting their milk rates and charges on a uniform basis, the leading companies greatly improved their milk train services, opening branch lines for Sunday traffic, constructing special milk vans on framework similar to that of the best passenger rolling stock, concentrating milk from specified districts at suitable junction stations, and carrying it thence in special and often non-stop milk specials run at a speed of over 40 miles an hour, and setting apart, more especially at London stations, certain lines, with platform and approach road, exclusively for milk traffic.

They found, however, in regard to the reductions they had made in their milk rates with the view of assisting the dairy farmer, that that person was not always deriving from their action the benefit they had designed. There was between what the dairy farmer got for his milk and what the consumer in the towns paid for it a big difference which was in no way accounted for by the average of a penny per gallon paid to the railway companies. It was even found that when, on the occasion in question, the railways reduced their milk rates, certain of the buyers reduced to a corresponding extent the prices they paid to the dairy farmers, who were thus no better off than they had been before. The benefit went in these instances to the middleman at the expense of the railway companies, and the view thus not unnaturally taken by the latter was that, in the absence of combination on the part of the producers, any concession granted in their favour might fail to attain its object.

This combination the A. O. S. sought to effect ; but, in order that the situation may be clearly understood, it is necessary that the conditions under which the milk industry is carried on should first be explained.

THE MILK TRADE MIDDLEMAN.

In actual practice a dairy farmer contracts to send all his milk to a wholesale dealer in some large town, the arrangements being generally made twice a year on the basis of summer prices and winter prices. The wholesale dealer, who may receive thousands of gallons of milk a day from many different sources, disposes of it to the retail vendors who, in turn, take it round in their milk carts to the householders. The wholesale dealer, acting as middleman in passing on the milk from the farmer to the retail dealer, fixes the price he is prepared to pay to the one and the price at which he is prepared to sell to the other. He runs a certain risk because he may get more milk than he can dispose of, and he has then either to utilise the surplus as best he can or to waste it. All the same, it is he who has the best chance of taking most of the profit. He offers, in fact,

another example of those purely commercial interests which have grown up alongside of agriculture, are flourishing at its expense, and are annexing gains which ought to flow to a far greater extent into the pockets of the farmers themselves.

In some instances a large wholesaler will sell to a smaller one who will sell to a smaller one still, until there may be as many as five distinct profits made after the milk leaves the producer and before it gets to the consumer. This fact was stated by Mr. J. S. Corbett in the course of a speech he made at a meeting of agriculturists held at Chippenham, Wiltshire, in August, 1910.

In London, especially, owing to the following up of a policy of absorption and amalgamation, the tendency of late years has been for these intermediate interests to get into fewer and still fewer hands, so that to-day the wholesale dairy trade of London is carried on mainly by three or four large and powerful firms linked with each other so closely in questions of policy as to constitute, in effect, a milk "trust" or "combine," and this trust, it is contended, would have continued to control the situation as regards the dairy farmers of the Western, the Midland, and the Eastern counties if a policy of self-defence had not been entered upon by them.

HOW CO-OPERATION CAN HELP.

A useful purpose has been served by the Dairy Farmers' Protectionist Societies, which assist their members in the making of contracts, fix minimum prices, seek to prevent undercutting, and "protect" the interests of the farmer in other ways, also, as against the middleman.

Much more than this, however, is needed, and the further requirements can only be supplied by co-operative effort, which has especially aimed at:—

1. Establishing closer relations between producer and retailer ;
2. Setting up central depôts at which, by means of the most perfect machinery, the milk can be subjected to cleansing and proper cooling before being despatched by train ;
3. Regulating the quantities of milk sent to the towns, in

order to avoid any fall in prices owing to the supplies forwarded being in excess of the demand ;

4. Retaining the surplus and converting it into cheese or some other marketable commodity, thus not only avoiding a fall in prices for the milk, but ensuring additional profits in other directions.

5. Opening up possibilities of a further resort to co-operation by the joint purchase of feeding stuffs, fertilisers and other requirements ; and

6. Encouraging the keeping of cows by small holders, as is the case on the Continent, there being good reason for expecting that, with co-operative marketing of the produce, the cow may become the mainstay of the small holder.

In the carrying out of this programme there is no idea of increasing the price of milk to the consumer. All that is required to improve the position of the dairy farmers, small holders and other land occupiers can, it is believed, be secured by them through co-operation and without prejudicing the interests of any one except the middleman. Happily, too, not only have steps already been taken in this direction, but much more is now being done.

CO-OPERATIVE DAIRYING IN ENGLAND.

Although at the present time Denmark is recognised as holding the premier position in co-operative dairying, it is not generally known that several co-operative cheese factories were started in England during the early seventies.

Through good and bad seasons they have continued their operations for upwards of forty years, a period which has seen great developments in the commercial life of this country.

It is to be regretted, however, that notwithstanding the early commencement of co-operative dairying in England the subsequent development of the industry has been exceedingly slow when compared with that which has taken place in this direction in other countries.

As far back as 1874, a number of farmers, in the Manifold Valley, Derbyshire, met to consider the advantages of combining together to build and equip a cheese-factory for their joint use. This they eventually did, each member

contributing an equal share towards the cost of erection and equipment.

They did not adopt the present-day methods of company promotion and create funds by the issue of shares, but each member agreed to send his milk to the factory, and at the end of the season, when all the cheese had been sold and expenses paid, the remaining balance was divided out, according to the number of gallons of milk delivered by each.

They still retain this method of payment, although if a member requires to draw a sum of money on account, he can do so, provided the value of the amount so drawn is not greater than the estimated value of the amount of milk which he has delivered to the factory. Each member also agrees to purchase from the factory a quantity of whey in proportion to the quantity of milk delivered.

The Croxden Dairy Association, Ltd., Croxden Abbey, near Rocester, which was established in 1884, is also deserving of mention. This society, as well as the Manifold Valley society, makes upwards of 60 lbs. of whey butter per week, and, as the butter finds a ready sale at 8*d.* per lb., it follows that the profits of the members are benefited to the extent of about £2 per week.

The manager is paid by contract for the whole of the season, in one case, and in the other at the rate of so much per cwt. of cheese made; but in both cases the manager agrees to find any extra labour he may require.

The methods in vogue at each of these factories are very similar to those adopted in Denmark, and they afford admirable examples of up-to-date co-operative dairying, worthy of more extensive imitation.

Their records show that during the autumn months they can produce 1 lb. of cheese from 8½ lbs. of milk, whilst in spring and early summer it takes 10 lbs. to 12 lbs. of milk to make 1 lb. of cheese.

All milk is bought by weight, and the net prices per 10 lbs. of milk received by the supplier are—from 6*d.* to 7*d.* during summer and 8½*d.* to 9½*d.* during autumn and winter.

The Dovedale (Derbyshire) Dairy Society, Ltd., and

the Yoxall (Staffordshire) & District Co-operative Dairy Society, although of later date, are dealing with over a thousand gallons of milk per day during the season and return remunerative prices to their suppliers.

The operations of the Water Orton Dairy Society, near Birmingham, will be of interest to farmers in the vicinity of large towns. All the members of this society sell their milk to Birmingham retailers, but during the early summer months they found they had a surplus supply of milk which they were not prepared to deal with at home. A room on the farmstead of one of their members was accordingly fitted up for cheese-making, and the occupier, Mr. Walley, agreed to make their surplus milk into cheese for a certain sum per gallon. This deals very economically and effectively with the surplus milk problem in the district. During recent years farmers have repeatedly had to meet a series of adverse circumstances, all of which have tended to make farming both onerous and more or less unremunerative, and it will be unfortunate if agriculturists do not pay more attention to co-operative buying and selling in order to improve their returns.

The Eastern Counties Dairy Farmers' Co-operative Society, which was established in 1896 as an offshoot of the Eastern Counties Dairy Farmers' Association, has for its special purpose the protection of the interests of dairy farmers in Essex.

Experience had shown the dairy farmers there that in order to obtain better prices for their milk they required a closer combination; and this was sought by the formation of a co-operative society with 52 members, each of whom took twenty £1 shares, on which 10s. per share was paid up. The society began business by selling its members' milk on commission; but as it grew stronger it adopted the method of making contracts both with the retail dealers and with its members. At the headquarters in Stratford, E., there is a refrigerating, cold storage, pasteurising and separating plant of the most sanitary and up-to-date type. If, on any one day, there should be a glut in the market,

such surplus as the society cannot profitably dispose of is pasteurised or put into cold storage, and held over until the following day, or is separated if there should be at the time an outlet for cream.

In 1909 the society, in order to overcome the difficulty caused by a great surplus of milk on the market during the months of May and June, acquired a cheese-making plant at Bilsden, converting there into cheese, in that year, 11,223 gallons of milk which otherwise might have increased the glut of milk in London and have affected prices accordingly. The society has also bought some land close to Ongar station, and built on it a milk depôt and cheese factory having facilities for dealing with 1,000 imperial gallons daily.

The Wensleydale (Yorkshire) Pure Milk Society was formed in 1905, on the model of the Copenhagen Pure Milk Company, for the supply of pure milk to the principal towns in the North of England. The contracts made by the society with its members are based on a number of conditions in regard to feeding, milking and general arrangements which are rigidly enforced with a view to ensuring absolute purity and wholesomeness of the milk, while the cows of the farmers supplying the milk must be certified by the society's inspector. Delivered at the society's depôt at Northallerton, immediately adjoining the lines of the North Eastern Railway Company, which has done much to foster the scheme, the milk is first scrupulously tested, being rejected if the quality should be unsatisfactory. It is then subjected to various processes, bottled, and so sent out to the consumer, the bottles, each labelled with a different coloured label for each day in the week, being packed in crates and conveyed to their destination in improved vans specially constructed by the North Eastern Railway Company for the purpose. In 1908 the society installed at its depôt new machinery which has been found most effective and economical. It deals with about 400,000 gallons of milk a year, and has a turnover of between £20,000 and £25,000.

The Scalford (Leicestershire) Dairy Society, Ltd., which is

in its tenth year, has been especially successful in manufacturing Stilton cheese, having completely refuted the old idea that the finest quality of that cheese can be manufactured only from the milk of a particular herd, and not from mixed milk. In 1911 the society made nearly 5,000 cheeses, which realised an average price of 10½*d.* per lb.

Good work has also been done by the Nidderdale (Yorkshire) Dairy Society and the Walkden (Lancashire) Farmers' Milk Supply Association, Ltd.

The most recent developments are represented by the Wiltshire Farmers, Ltd., the Cheshire Milk Producers' Depôts, Ltd., and the Cornwall County Farm and Dairy Co-operative Society, Ltd.

Wiltshire is one of the chief centres of milk supply for London, and the general conditions in regard to the relations between the farmers and the wholesalers, as already told, prevailed there in full force until the opening, in January, 1911, by the Wiltshire Farmers, Ltd.—a co-operative association of dairy farmers in Wiltshire—of their Chippenham depôt. Here the milk supply of a large proportion of the 500 members is received and passed through the milk cleaners and pasteurisers, and then over copper milk coolers, which, together with other appliances and the general arrangements of the building, are of the most up-to-date type, the whole of the plant being the best that science can suggest and engineering skill furnish. Run into 17-gallon churns on the dairy floor, the milk is either despatched at once to London from Chippenham station, on the Great Western Railway, or placed in one of three specially-constructed cold rooms until the following day, no change whatever taking place in the nature of the milk so kept. Surplus milk not wanted at all for despatch to London is converted into cheese, for the making of which every necessary appliance, once more of the best possible type, is provided. So well does this arrangement answer that during the three months of May, June and July, 1911, about £7,000 worth of milk was turned into cheese, this being milk which, under previous conditions, would have been thrown

on the London market—with the risk of keeping down prices there—because of the lack of means of dealing efficiently, economically and profitably with superabundant supplies on the spot.

The total cost of building, plant, machinery and formation expenses has been over £10,000. In regard to sale and distribution the society deals direct with retailers. A large proportion of the milk it sends to the Metropolis goes to an organisation known as the London Retail Dairymen's Mutual, Ltd., which is no less desirous of dispensing with the wholesalers. At first there was an idea that the society should itself start a retail trade in London; but further consideration and inquiry led to the conclusion that it would be more expedient if the society contented itself with supplying the retailers, and sought to dispense with the wholesalers only.

That the large milk contractors should have shown the most vigorous opposition to the new society was only to be expected, but the society has done so well that its turnover for the first half of 1912 was about £66,000.

The Cheshire Milk Producers' Depôts, Ltd., is a co-operative society formed by the milk producers of Cheshire, Shropshire, Derbyshire, and Denbighshire to deal with the milk supply of these counties with greater advantage to the producer. It had the cordial support of the landowners of the district, who took up shares and loan stock, and the Co-operative Wholesale Society, together with the Industrial Co-operative Societies, rendered much assistance by the orders they gave; but a formidable opposition was raised by certain interests in Manchester and Liverpool, whose association passed a resolution boycotting the society. The difficulty thus created was met by the society setting up numerous depôts at which milk not sent to the towns could be converted into cheese. At the Balderton depôt an average of 3,000 gallons of milk was being dealt with daily at the end of April, 1912. The maximum received there in one day had been 4,500 gallons.

The Cornwall County Farm and Dairy Co-operative

Society, Ltd., has been established mainly through the zeal and activity of Viscountess Falmouth, of whom the annual report of the A. O. S. for 1910 says:—"She has spared neither time nor trouble, and has been the means of creating an enthusiasm for the undertaking that is unique in the history of our movement." Among the objects of the society are the following:—

1. Unification of the dairy industry in Cornwall.
2. Increase of the dairying area by encouraging and stimulating production.
3. Uniform standard of produce, and consequent improved status of supplies for the London and provincial markets.
4. Control of output by means of cold storage in order to secure regularity and continuity of sale at remunerative prices.
5. Reduction of cost in reaching market by economy in management and consignments in bulk.

Collecting depôts and a central factory with offices, cold-store plant and separating station, have now been established. "It is believed," the annual report further says, "that the society will have the effect of greatly stimulating the dairy and poultry industry in the county, and of leading to such developments and extensions, concurrently with greater excellence of manufacture and uniformity of output, as will be of marked advantage to suppliers and indirectly of benefit to the community at large. There are districts in Cornwall where there is little dairying, notwithstanding suitable conditions, and this society hopes that the facilities and inducements for developing the dairy industry and promoting the general agricultural production in such places will be made clear to the people."

A DAIRY SOCIETIES' FEDERATION.

It is now proposed to follow up the establishment of these various societies, and to prepare for others still to come, by forming District Federations of Dairy Societies with a view to the holding of periodical conferences by society managers, to discuss questions of common interest.

RETAIL DAIRYMEN'S INTERESTS.

etailers in the towns are no less interested than milk producers in the country in dispensing with the middleman wholesaler and his profits ; yet in the one case as in the other there may be practical dependence on the tender mercies of a " milk trust " so long as those concerned act only as individuals. Not only, therefore, are the dairy farmers themselves combining, but the milk retailers, also, are beginning to adopt a like policy.

Some years ago there was formed in London a Retail Dairymen's Association, the object of which was to provide the retail dairymen of the Metropolis with the means of safeguarding their own interests. The association secured sundry trade reforms and other advantages, but the majority of the retailers found themselves still prejudiced by having to obtain their milk supplies through the wholesale contractors who constituted the London milk trust.

The question then arose whether, by means of combination, the retailers could not control their supplies independently of the middlemen whom they had hitherto regarded as " a necessary evil," but against whose " immense profits " they were now disposed to rebel. It was felt, however, that a combination of milk retailers would require to deal with a combination of milk producers, in order to be certain of getting adequate and regular supplies.

A deputation was thereupon appointed to wait on the secretary of the A. O. S., who gave all the assistance in his power, with the result that the Retail Dairymen's Mutual Supply, Ltd., was formed and registered under the Industrial and Provident Societies Act, 1893. Whilst being a co-operative society of milk retailers, the society was really designed to take the place of the wholesaler for its members, with the advantage that through affiliation with the central body it would be brought into touch with the co-operative societies of dairy farmers also affiliated thereto. By this means supplies could be obtained from organised sources with probably less friction than in the case of dealing with

individual producers ; but the society itself was to act exclusively as a wholesale milk contractor, and was not to engage in the retail trade in competition either with its own members or with other retailers.

Starting operations with sixty-five members in March, 1911, the society had 115 in August, 1912, at which date, also, it was being supplied with 25,000 gallons of milk a week, including 18,200 gallons from the Wiltshire Farmers, Ltd. It is found possible to pay slightly more per gallon to organised sources of supply, such as the Wiltshire Farmers, Ltd., than to individual farmers, the reason being that the former are able to arrange more conveniently to send the exact quantity needed, and to deal with milk not required. The policy of the society is to make contracts with the best dairy farmers in the best milk-producing districts ; stringent precautions are taken to ensure purity and good quality ; the society supplies genuine retail dairymen only ; all members pay the same price and receive the exact quantities they require ; and selling prices, which are to be uniform throughout London, are fixed at the making of each contract.

Coupled with what the dairy farmers themselves are doing, this most interesting and most significant development among the retailers would seem to foreshadow some material, if not, indeed, some revolutionary, changes in the future of the dairying industry, to the advantage both of producers and of actual distributors, and without any detriment to the consumers.

ORGANISATION OF MILK RECORDS.

The efforts to bring about more remunerative methods of milk distribution are now being supplemented by endeavours to increase still further the financial returns of dairy farmers and small holders through the effecting of improvements in milk production.

It is hoped to attain this end with the help of a system of milk records and milk testing organised on lines similar to those so successfully followed by co-operative societies

established expressly for the purpose in Denmark and elsewhere.

If, as is pointed out in an article published in the issue of *Co-operation* for February, 1912, the milk production of the average cow could be considerably increased, the whole dairy industry would be placed on a firmer basis, and individual farmers would be enabled to better the conditions under which their milk is produced, and to carry out many other improvements that might now involve a financial loss. Any increase in prices to the consumer being undesirable, the dairy farmer is faced by the twofold problem (1) how to increase the yield of every individual cow in his shed ; and (2) how to lessen per gallon the cost of production. In solving this problem he requires to know, as nearly as possible, the quantity of milk produced annually by each cow in his herd ; the quality of that milk (and more particularly the percentage of butter fat it contains) ; and the cost of each cow's food for the year. This information being obtained by a system of milk records, the farmer must then seek (1) to eliminate unprofitable cows ; (2) to select the best milkers for breeding purposes ; and (3) to adjust rations in proportion to the milk yielded. By operating on these lines he may once more hope to conduct his business of agriculture in greater accordance with business principles.

The advantages of the system are undeniable, and they need not here be further discussed. The only question for consideration is how best they can be secured. In Ayrshire and Dumfriesshire the farmers have formed their societies for the keeping of milk records, and the average milk yield of the Ayrshire cow has, in consequence, been largely increased. In Ireland, also, there are co-operative societies of this type. It would, of course, be hopeless to expect every dairy farmer or small holder in the country to make regularly his own tests and keep his own records, nor is it necessary that he should when the work can be much more efficiently done through the co-operative employment of experts who would visit each farm or holding at fixed

intervals, and make the weighings and tests with the apparatus or appliances specially adapted thereto.

It has been suggested that there should be adopted in England and Wales, with modifications suited to our own conditions, the system already found to answer elsewhere—that is to say, a system under which the farmers and small holders in a certain district would form themselves into a society, adopt rules properly drawn up, raise funds by means of entrance fees and annual subscriptions based on the number of cows to be tested in each member's herd, and employ an expert who would make his tests, enter the results in suitable books, and give a certificate for each cow, at the end of her lactation period, showing the amounts of milk and of the butter fat therein which she had yielded.

Two schemes for the formation of Co-operative Milk Records Societies have been drawn up by the secretary of the A. O. S., giving approximate estimates of the cost of working for the first year and for the second or subsequent years respectively. The first scheme is in respect to a society of twelve members, to whose farms the expert would pay fortnightly visits. The second scheme is for a society of twenty-four farmers, who would themselves weigh their milk each week, the expert paying monthly visits to their farms to supervise the weighing and sampling, and to do the actual testing.

CATTLE AND THE TUBERCULIN TEST.

One of the affiliated societies, the Wensleydale Pure Milk Society, has adopted a line of policy which, if generally followed up, should have a further important influence on the future of the dairy industry.

In addition to the other means adopted by the society, as already told, to ensure a pure milk supply, attention was directed to the taking of efficient means for dealing with the question of tuberculosis in cattle.

This further item on the society's programme was found to be a difficult proposition, inasmuch as the farmers had to

be won over to the idea of having their herds tested by means of tuberculin. Strong prejudices were not unnaturally encountered, and, although two farmers consented, in 1906—7, to the test being applied to their cattle, the other farmers in the district expressed disbelief therein, and would not then follow the example set to them. Gradually, however, their objections have been overcome, and to-day practically all the farmers concerned have adopted the test, and show confidence in it, some of them now buying their fresh stock subject to the animals passing the test.

Such confidence has been fully deserved. The milk from cows certified to have passed the test is marketed, in bottles, as tuberculin-tested milk, is sold in thirty towns in Durham and Yorkshire, and has become a well-recognised standard article. The healthiness of the cattle, too, has materially improved.

So great is the importance it has attached to this action on the part of the Wensleydale society that the A. O. S. has called the attention of its co-operative dairy societies in general to what has been done. It is felt that there should be an especially good opening for the societies to supply guaranteed milk of the type in question to the sanatoria to be set up under the National Insurance Act, while there is no doubt that the consumption of milk as a beverage would be greatly increased in the towns if a guarantee of absolute purity could be offered to would-be consumers. There are already great possibilities of a further increase in the consumption of milk ; but with the guarantee here in question those possibilities would be greater still, and, with an improved and a more profitable system of distribution, the position of the British dairy farmer would be far more satisfactory in the future than it has been in the past.

Thus the general situation of the British dairying trade has materially changed since the late Mr. Hanbury interested himself in this and other phases of agricultural production in 1903 ; but the improvement effected has been mainly due to the co-operation which at that time appeared so difficult of attainment.

C.—EGGS AND POULTRY.

An early effort to bring about better conditions in the egg and poultry industry in Great Britain was begun in 1898 by the National Poultry Organisation Society. The would-be organisers of that date, however, started without much experience and with the disadvantage of having to encounter considerable prejudice. Nor, at first, did the society operate on purely co-operative principles.

Then, as now, there were two lines along which work required to be done—teaching and organisation.

There was a great necessity for teaching in regard to methods of production; there was equal need of effective organisation for sale. Farmers and small holders required to be shown exactly what to produce and how to supply it; but they wanted, in turn, a guarantee that when they had produced the qualities and the quantities desired they would be able to market them to advantage.

It was the second of these two functions that the National Poultry Organisation Society took in hand. Educational work it regarded as falling within the province of the educational authorities, and notably within the schemes of technical instruction undertaken by the County Councils.

When the Agricultural Organisation Society came into existence, in 1901, it naturally included the egg and poultry industry within the purview of its operations. It agreed with the earlier society on the point as to poultry instruction, and was equally disinclined to undertake responsibilities in this direction. In dealing, however, with organisation only, there was the risk of the two societies overlapping. Steps were taken to avoid this, and in the annual report of the A. O. S. for 1903 it was said:—"We are pleased to be able to report that we have come to an arrangement with the National Poultry Organisation Society that will prevent overlapping in our respective propaganda." Where the work undertaken by the A. O. S. was especially useful was in the direction of inducing producers to adopt co-operative methods.

Proposals for a combination between the two societies were under consideration for some years, but there were difficulties in the way of adopting this idea. The National Poultry Organisation Society not only thought it desirable that the promotion of the poultry industry should be specialised and kept distinct from that of agriculture in general, but the society had felt compelled, in the interests of affiliated local societies, to organise trading, whereas the Agricultural Organisation Society was a non-trading body.

ARRANGEMENTS WITH THE NATIONAL POULTRY SOCIETY.

These difficulties were overcome in 1909 by means of a working agreement, in virtue of which the A. O. S. undertook the organisation of local societies, the N. P. O. S. retaining the other branches of its work. In July, 1911, the National Poultry Organisation Society transferred its marketing section to the British Poultry Federation, Ltd., which had been formed by a number of local co-operative societies engaged in the collection and marketing of eggs and poultry, and undertook sale on their behalf. The federation, which opened premises at 27, Hozier Lane, E.C., in January, 1912, is registered under the Industrial and Provident Societies Act, and is operated on a co-operative basis.

By reason of the arrangement with the A. O. S., the National Poultry Organisation Society was enabled to devote more attention to the technical side of its work, and this was of the greater importance inasmuch as comparatively little was then still being done by the County Educational Committees in the matter of instruction in poultry keeping. Although, too, a few colleges had taken up the subject, the provision for teaching was totally inadequate.

The work of the A. O. S. was especially directed to bringing before agricultural co-operative societies—where the holdings of their members were moderate or small in acreage, and the conditions generally were favourable—the desirability of adding the sale of eggs to other operations.

Hitherto the great majority of the societies had devoted

their attention to the purchase of supplies for members, and the sale of members' produce was a new departure which required careful consideration and judicious direction.

The desirability of offering better opportunities for the profitable disposal of eggs had long been great enough, but it had now become greater than ever owing to the operation of the Small Holdings Act. More people were being induced to settle on the land, and it was evident that the keeping of poultry would, in most cases, be essential to the success of a small holder in helping to provide for him a constant and adequate income.

Here we get back to the two fundamental principles of (1) instruction both in the production of just those supplies that should bring in the most profit and in preparing them for market; and (2) the organisation of such marketing methods as will ensure the producer obtaining the best possible return for his labours.

EGG AND POULTRY DEMONSTRATION TRAIN.

Wide scope exists for increased instruction, the need for which was felt so keenly by the Agricultural Organisation Society and the National Poultry Organisation Society that in 1910 the two bodies combined in order, by arrangement with the Great Western Railway Company, to run an egg and poultry demonstration train on a tour through parts of South Wales, this being the first occasion of a trip of this kind being made in Europe, though agricultural demonstration cars are, of course, well-known in Canada and the United States. Concerning the results of this trip the official who was in charge has reported:—

Nothing in which I have been permitted to share, concerned with promotion and organisation, has had equal influence, considering the time and money expended. Wherever I have gone since that time, at home or abroad, references have been made to it. It evidently struck the imagination of many people, not alone by its novelty so far as Europe is concerned, but its practical educational value. Doubtless part of the success was due to the great publicity given to it by the Press, which, in turn, was in some measure owing to recognition of the fact that it was a

Poultry Institute on Wheels. The results are considerable. Collecting depôts have been established at four centres ; the important place which poultry should hold in relation to general farming has received recognition to an extent never known before ; and the educational value of this demonstration train has been manifested, not alone by increased production, but by adoption of better methods of marketing, and by a striking advance in the values of eggs, especially throughout the various districts visited, in some instances as much as 2s. per great hundred.

This widespread interest in the egg and poultry train experiment has led to definite demands that similar trains should be run in North Wales and in Dorset and Wilts. At least a dozen other trains have also been suggested, and offers have been received from various railway companies to afford facilities on their respective systems ; but inasmuch as the cost of such a train is considerable, the two societies which defrayed the entire expense on the first occasion feel that they could not bear the financial responsibility unaided in other parts of the country as well, and the question arises whether the running of demonstration trains of the kind in question might not be regarded as a branch of educational effort which the Development Commissioners or the County Councils would be warranted in assisting.

POULTRY INDUSTRY INSTRUCTION.

The whole subject of poultry industry instruction requires reconsideration from a national standpoint. We are notoriously behind other countries in the matter. In Canada and the United States the poultry industry has undergone remarkable expansion ; but this fact is not surprising considering that sixty-five experts are there engaged in poultry teaching and investigation at agricultural colleges and experimental stations. "Guelph College, Ontario," it is said in an article in *The Times* of August 26th, 1912, on "The Poultry Industry and its Future," "has earned a world-wide reputation for successful experiment and research ; the MacDonald College of St. Anne-de-Bellevue, in the Province of Quebec, possesses a poultry plant larger

than all of those in England combined. Cornell University, of New York State, possesses a larger staff than is to be found in all the agricultural colleges of this country." As for our own colleges, evidence given to the Reay Committee showed that out of eighteen colleges and schools of agriculture ten have no provision at all for poultry teaching; eight make provision of some kind for practical instruction, but only five give courses of lectures, and of these five there are three which do not provide specialist instructors, the final result being that in only two or three of the colleges does the subject receive adequate attention.

A certain advance is being made, however. A proposal has been mooted for the formation of a National Poultry Institute which would be a centre for training teachers and others, and for the conduct of experimental work and research in the many problems which present themselves for solution. The Development Commissioners and the Board of Agriculture have approved the scheme, and the former have stated that they are prepared to recommend the Treasury to make a grant of £8,500 for establishment and equipment and of £2,000 a year for maintenance, conditionally upon equal amounts being obtained from other sources. The Committee of the National Poultry Institute are endeavouring to obtain the sums requisite to placing them in a position to obtain these grants.

In the next place, as the result of a conference held in London in July, 1912, there was formally established, with Mr. Edward Brown as its president, an International Association of Poultry Instructors and Investigators which, in reflecting the "world-movement" now proceeding in the investigation of many problems of poultry production awaiting solution, should have some effect in helping to raise English conditions to a better state of efficiency.

MARKETING.

All this educational work is, of course, far beyond the range of A. O. S. activities; yet in the organisation for sale which is the logical outcome of teaching for production there

is also good scope for the Society's action. In some parts of the country—Cornwall for example—the trade in eggs and poultry is almost entirely in the hands of higglers, who give what prices they like, and, as a rule, pay only just sufficient to induce the farmers or small holders to keep on providing them with supplies. In some districts the barter system is still very prevalent, eggs and poultry being given to a local shopkeeper—who himself fixes the values—in exchange for groceries or other household goods, the cottager or small holder thus, possibly, being allowed too little in the one case and paying, in effect, too much in the other.

So it often happens that the whole marketing system is conducted on the most antiquated lines. The produce itself may not be worth so much as it would be if put on the market under better conditions ; but the material difference, even then, between the prices paid to the producers in the country and the prices paid by the consumers in the towns represents a considerable range of middlemen's profits which it is one of the objects and purposes of agricultural organisation—supplementing efforts in the direction of improving the production—to abolish.

SOCIETIES AND EGG-COLLECTING.

This particular purpose can only be achieved through co-operation, and the one debatable point is, not as to the principle itself, but as to the particular form of co-operation that may best be recommended.

In actual practice, co-operation as applied to the sale of eggs means that, as far as possible, the members of an agricultural co-operative society should send all their eggs, as frequently as possible, to their society's depôt, where they will be tested, graded and paid for according to size, freshness and shape, and thence be despatched for sale in accordance with the arrangements made to that end by the society. The producer is thus saved all trouble and expense in marketing ; he should, where the quality is satisfactory, get a better price for what he supplies, and any sum left as profits, after

interest has been paid on share capital, is generally returned to the supplier in the form of a bonus in proportion to the value of the business done.

Where the debatable point arises is on the question as to whether co-operative egg-collecting should be taken up, preferably, by societies devoting themselves exclusively thereto, or by societies which regard it as only an addition to their other work or undertakings. There are societies of each type, and the experience already gained suggests that societies which exist for egg-collecting alone can only be run with advantage in districts where eggs are very cheap, and a sufficiently large margin can be secured to cover expenses. Owing to the small capital at their disposal, these societies may be at a great disadvantage in operating against competitors possessed of substantial financial resources, or even as against higglers who, when the society offers a slightly higher price—in order to ensure the support of members—themselves also give a higher price, doing so the more readily because, in addition to dealing with eggs, they trade in butter and other products, smaller gains in one direction being thus made up by the returns in another. Societies depending on egg-collection only have not the same resource, and in 1911 four societies established on this basis were dissolved because they could not make the business pay.

Where, on the other hand, egg-collecting is adopted as an adjunct to other activities, the society is in a stronger position. It has the same advantage as the aforesaid higglers in not having to depend on only one set of profits. When, for instance, a dairy or a trading society, operating in a district where good prices for eggs are already obtainable, starts an egg-collecting branch, it can, on account of the other business done, afford merely to cover expenses, or even to bear a slight loss on the egg-collection, which it will find an advantage in continuing because the addition of egg-collecting to its other branches may bring in more members, and so lead to more capital being available for the society's purposes in general. Under these conditions co-operative egg-collecting is carried on successfully even by

societies devoting themselves chiefly to eggs and poultry in districts where a society confining itself exclusively thereto could scarcely hope to avoid failure, though the majority of agricultural co-operative societies have been reluctant to undertake this work.

The best example of a co-operative society's success in the direction of egg-collecting is afforded by the Framlingham (Suffolk) and District Co-operative Society. Originally formed, in 1903, mainly for the purchase and supply of agricultural requirements the society started egg-collecting as a subsidiary branch of its main line of business. The experiment answered so well that in 1907 the society sold for its members 1,593,000 eggs, and paid them, according to the calculations made, between £1,000 and £1,500 more than they would have received before the society was established. In addition to the central depôt at Framlingham, a number of branch depôts have been opened throughout the district for receiving and dealing with eggs, and the business has grown so substantially that in 1911 the society sold for its members 3,922,000 eggs, of a value of £16,000.

In the same year the egg department of the Eastern Counties Farmers' Co-operative Association sold over 1,225,000 eggs, for which £3,614 was received.

The complete returns for 1911 in respect to the two classes of societies undertaking egg-collection show the following totals :—

SOCIETIES.		NUMBER.		VALUE OF EGGS.
				£
Trading and dairy	12	25,700
Egg-collecting only	21	8,600
Total	33	34,300

These results are, however, only approximately satisfactory, since there is still a great deal to be done.

NEED FOR FURTHER ACTION.

"Until," as was said in the annual report of the A. O. S. for 1910, "we have a thoroughly practical training of

managers, making them feel that their future in connection with the egg movement is dependent upon loyal acceptance and adoption of regulations laid down for collecting, grading and testing of produce, co-operation for sale will fail, to accomplish its purpose."

Still more needs to be done to bring home to the minds of poultry keepers the fact that they must do all they can to further the aim of the movement in advancing the character and quality of the home produce, thus capturing the highest class of trade.

Societies should be encouraged to develop egg-collecting branches of their present work, and to bring all possible persuasion to bear on their members to send in their supplies, instead of being content only with purchase of requirements from their society.

Measures might well be taken to ensure control and continuity of British supplies. "It is generally admitted," the Society's report for 1910 further says, "that the success of the Danish egg societies is largely due to the regularisation of supplies by adoption on a large scale of preservation, or 'pickling.' The advantages of this system are not alone that eggs for cooking purposes are available during the periods of scarcity, but that prices are steadied by the eggs being kept off the market in the cheap season. As production of eggs increases in the United Kingdom, the tendency will be to overload the market and so reduce returns."

Pressure, again, should be brought to bear on the local authorities concerned in technical education to appoint a larger number of practical instructors in poultry keeping.

OVERLAPPING.

For some time it has been apparent that there is considerable risk of societies engaged in the sale of eggs and poultry competing with each other in the great consuming centres. Already this has been experienced to a limited extent, but with increase of production and of local societies

it would become a serious problem. Those operating in the cheaper districts would be able to cut out others and yet find the business profitable. The prices at which these were able to sell would be the determining factor.

IMPORTS AND OPPORTUNITIES.

All the world over the consumption of eggs and poultry is increasing, and this is especially the case in countries where the leading of "the strenuous life" favours a lighter dietary, more particularly for the mid-day meal, or in Continental countries where, again, boiled eggs are being more and more eaten as an addition to the orthodox coffee, rolls and butter for breakfast, while increasing wealth allows of a more general indulgence in small luxuries.

This greater consumption by the world in general has led to decreased imports and increased prices in this country, as is well shown by the following table, which gives imports, in great hundreds (a "great hundred" is 120 eggs), and values for the years 1906-9:—

YEAR.				IMPORTS.	VALUE.
				<i>Gr. hundreds.</i>	<i>£</i>
1906	..	..	..	18,874,059	7,098,122
1907	..	..	..	18,567,901	7,135,530
1908	..	..	..	18,210,070	7,183,112
1909	..	..	..	17,710,431	7,233,932

In 1910, and again in 1911, there was an increase in imports; but, comparing the returns for the first six months of 1912 with the corresponding period of 1911, we find a reversion to the decline in imports, with a continuance of the rise in values:—

FIRST HALF OF				IMPORTS.	VALUE.
				<i>Gr. hundreds.</i>	<i>£</i>
1911	..	..	..	8,569,492	3,407,200
1912	..	..	..	8,073,233	3,375,345

Thus against the drop in imports of 496,259 great hundreds, or 60,000,000 eggs, in six months there was a decline in total values of only £31,855. In other words,

whereas the value of 120 imported eggs in January-June 1911, was 7s. 11d., the value of the same quantity in January-June, 1912, was 8s. 4½d., an increase of 5½d. per 120 in this short period.

Of the total imports of eggs in 1911 Russia sent no less than 52·69 per cent., or more than all the rest of the world put together. Denmark, which imports eggs from Russia for domestic consumption, sent us, of her own better qualities, equal to 20·95 per cent. of our total from abroad. Only one other country, Austria-Hungary, exceeded 5 per cent.

As showing the distance of the countries from which eggs are brought to Great Britain, it might be mentioned that imports reached us in 1911 from, among other places, Morocco, Canada, Asiatic Turkey, the United States of America, Roumania, Gibraltar, China, Bulgaria, Servia, Canary Islands, New Zealand, European Turkey Madeira, and the Cape of Good Hope, the quantities from these different countries diminishing in magnitude in the order given. To what extent the eggs imported from the more distant countries may have been used for various manufacturing purposes cannot be told.

When one bears in mind that the genuine new laid egg favoured on British breakfast tables should not be more than three days old, the initial advantage which the English egg-raiser has over his foreign competitors is abundantly manifest; and this initial advantage becomes greater still in proportion as the foreigner keeps more of his eggs at home for his own consumption, or, alternatively, as Germany absorbs more of the eggs that might otherwise come to us in still greater volume from Russia and Southern Europe.

In regard to poultry the maximum value of imports attained in 1908, namely, £934,679, has not since been surpassed, while it is significant that, though the imports from Russia have shown a large increase, those from the United States—where consumption is so steadily overtaking production—have shown a marked decline, as will be seen from the following table :—

YEAR.				VALUES OF IMPORTS OF POULTRY FROM	
				Russia.	United States.
				£	£
1906	..	..	..	185,635	243,750
1907	..	..	..	271,357	202,065
1908	..	..	..	354,394	153,544
1909	..	..	..	351,303	149,552
1910	..	..	..	303,260	88,144
1911	..	..	..	404,994	137,469

It need hardly be said that fresh-killed English poultry ought to have a better chance on our own markets than poultry from either Russia or the United States, or elsewhere. Certain it is, also, that poultry ought to enter far more largely into the dietary of the average English household than is actually the case; yet the co-operative fattening and sale of poultry—in which there is a vast field awaiting development—has hitherto scarcely been touched.

So it may be suggested that the remark as to the opportunities for a development of the egg and poultry industry here having never been greater than they are at the present time is in no way exaggerated; yet full advantage can be taken of those opportunities only by adherence to the dual principles laid down by the Agricultural Organisation Society and the National Poultry Organisation Society, namely, better teaching to secure improved production, and organised marketing to ensure more remunerative sales.

D.—SALE OF LIVE STOCK.

Progress in the co-operative sale of live stock has hitherto been comparatively slow. Apart from the ordinary difficulties in the way of organising combination for sale there are, when such combination relates to live stock, great and powerful vested interests to be faced. "Rings" of traders naturally object to, and fight against, innovations likely to diminish their own profits, and even buyers who have not formed such rings may strongly disapprove of changes in established methods until it is shown that they, too, may benefit through those reductions in the scales for

commission to which the sellers themselves look for increased gains.

Yet although the co-operative sale of live stock may be growing only very gradually as a whole, there are several examples of a noteworthy success, establishing the soundness and practicability of the principle, and offering good encouragement for the future.

In 1905 the Eastern Counties Farmers' Co-operative Association added to its other undertakings the sale of its members' pigs. The reasons which led to the taking of this new departure were told in a lecture delivered in 1911 by Mr. W. Wilson, junr., chairman of the association's live stock committee. Suffolk, he claimed, is, for its area, the largest pig-breeding and pig-fattening county in England. It cannot be called a "dairy county"; it possesses no bacon factory; it is a long distance from thickly-populated industrial centres, and yet it has become so much the fashion to keep pigs in Suffolk that Mr. Wilson says "it is no uncommon thing to find as many as 500 pigs on one farm." The combination of a large industry and a small local demand has nevertheless led to the question of outlets becoming one of vital importance.

Prior to the formation, in 1904, of the Eastern Counties Farmers' Co-operative Association, the general practice was to send the pigs to (1) local auction sales; (2) Birmingham salesmen; or (3) private customers; but there were disadvantages in each of these methods, and the final outcome of a resort to any one of them was too often the making of very poor prices. In regard to the local auction sales this result was especially attributed to the existence of strong "rings" among the dealers.

The association considered the matter, decided against the setting up of a bacon factory, and eventually adopted a scheme which is thus described in the A. O. S. report for the eighteen months ended June 30th, 1906 :—

A pig expert is employed who is paid a fixed salary and a commission on every pig dealt with by the society. The expert, who is in touch with all the markets throughout the country,

attends members' farms and advises as to whether the pigs inspected should be sent to the West of England, Birmingham, Sheffield, or other distant markets, or should be marketed locally. The pigs are forwarded to the selected market in the name of the association, or, if the member prefers to sell them locally, the expert attends the market and sees that they realise their proper value. If they fail to do so they are bought in.

An immediate success was secured by this scheme. In the first eight months of its operation pigs to the value of £17,352 were sold, and the association's report for 1905 said:—"This new departure has no doubt greatly, if not entirely, neutralised the effect of the 'ring' operations which have been carried on so frequently in the past, to the detriment of sellers."

So well, too, has the initial success been followed up that in 1911 the number of pigs sold by the association was 21,154, of a total value of £85,925.

The Winchcombe (Gloucestershire) Co-operative Auction Mart, Limited, established in 1904, began business in 1905 with an auction market which became at once "a complete and striking success," and has maintained its position ever since. It holds 15 sales in the year, and in 1910 it disposed of 6,325 cattle, sheep, pigs and calves.

At Winchester (Hampshire) a movement for the co-operative sale of live stock was set on foot in 1906. The Winchester Agricultural Trading Society, having such sale as its main object, was formed, and began operations early in 1907. It held weekly sales by auction of all kinds of fat stock in the Southampton market, as well as sales of sheep and lambs at Overton and Alresford fairs, and special spring and autumn sales of store stock at Winchester. The new system was found advantageous alike to sellers and buyers, and the business done steadily advanced, the turnover in 1910 being £46,762. The stock sold in that year comprised 802 beasts, 1,710 sheep, 716 calves and 86 pigs. In 1909 the name of the society was changed to "The Southern Counties Agricultural Trading Society, Limited."

Other societies have also undertaken co-operative sale of live stock.

The results thus far accomplished in the co-operative sales of live-stock may be looked upon as encouraging ; yet when one considers the large proportions and the substantial value of the live stock sold off the farms of Great Britain, as shown by the figures given on page 61, it is obvious that in this particular department co-operative effort is still merely at the beginning of things.

E.—SALE OF GRAIN, HAY, SEEDS, ETC.

A number of the affiliated societies have done useful work for their members by undertaking for them the sale of their grain, hay, seeds, etc.

The Eastern Counties Farmers' Co-operative Association, to whose sales of members' pigs reference has already been made, undertook, in 1905, to dispose of its members' clover, trefoil, trifolium and other seeds of the same class, disposing of them on Mark Lane or to wholesale seed merchants, and securing prices 5s. or 6s. per bushel in advance of those which the members would have secured locally. A cargo of beans sent by sea to a firm in the North of England realised 2s. per quarter above the local market prices. Wheat, barley, oats, and straw were also sold for members by the Association, which, in its report for 1905, said :—

In this branch, although of course there are exceptions, members have, as a rule, obtained very great advantage indeed, and instances can be adduced where clear gains, up to as much as £10, have accrued to members who have placed their seeds with the Association for disposal.

The example set by the Eastern Counties Association was followed in 1907 by the Southern Counties Agricultural Trading Society, which sent a representative to Mark Lane to sell corn by sample for its members.

In 1908 there was a steady development of co-operative sale of the commodities mentioned, the other societies taking it in hand, in addition to those mentioned, including the Midland Farmers' Co-operative Association, the Newport

(Salop) Agricultural Co-operative Trading Society and the East Sussex Farmers' Co-operative Society. The Midland Farmers' Co-operative Association published the following in its monthly price list :—

We are prepared to sell members' corn for them at a commission of 3*d.* per quarter. Send on your samples to the manager, with particulars as to the quantities and stations you can deliver at. You may put on a limit to the price you wish him to make, or leave it to his discretion.

The Newport Society reported that it had done a large business in the sale of grain for members, and that the best prices had been obtained for barley, wheat, oats, etc. On the sales of barley the society had been able to obtain from 2*s.* to 3*s.* a quarter more than the members themselves would have got.

In 1909 there was a further steady increase in the number of societies selling grain, hay, seeds, etc., for their members. The A. O. S. report for that year said :—

The first step to starting this business is the appointment of a manager who can devote his whole time to the work of the society, and it is the general experience that when a society appoints an expert manager it is not long before it begins to sell produce as well as to supply requirements.

The manager of the corn, coal and feeding stuffs department of the Eastern Counties Farmers' Co-operative Association gave, in 1909, the following examples of the advantages gained by members selling through that department :—

A member of our society brought us a sample of blue peas, for which he asked 30*s.* per coomb. We informed him that he was not asking full value, and gave him 33*s.* per coomb. He informed us that a local man had bid him 28*s.*, at the same time stating that he was offering more than the market value.

At Ipswich market, a certain merchant bought sixteen bushels of seed from a farmer at 20*s.* per bushel. We heard of this, and to find out if the merchant knew the value of the stuff, we bid him 30*s.* per bushel. This he would not accept. Had the farmer been a member of our Association, and brought the seed direct to us, we should have had no hesitation in giving him 35*s.* per bushel.

In this same year the manager of the East Sussex Farmers' Co-operative Society made an arrangement with a merchant to purchase the members' hay on favourable terms, the annual report of the A. O. S. saying in regard thereto :—

On being notified by the manager that a member has hay to sell, the merchant will send a representative to view it, and will give full market price for it, besides allowing the society a small commission on the transaction.

It is very difficult for a farmer who only sells his hay or grain once a year to deal on equal terms with a merchant who is constantly buying and selling, and it is an immense advantage to be able to sell through a society which has the same knowledge of the market as a merchant, and will place that knowledge at its members' disposal.

A still further increase in the number of societies selling for their members the commodities mentioned was reported in 1910. "The advantages," remarked the A. O. S. report for the year, "of being able to get in touch with sound firms who are prepared to give the full market value for produce have enabled the societies to assist their members to an extent not hitherto possible." The business done by the Eastern Counties Farmers' Co-operative Association in the sale of members' produce has undergone steady expansion and has now assumed considerable proportions, additional accommodation having had to be provided for dealing with seeds.

F.—ORGANISATION OF THE WOOL INDUSTRY.

The imports of sheep's or lamb's wool into the United Kingdom in 1911 amounted in value to over £33,000,000, those from Australasia alone being calculated at close on £22,000,000. The number of sheep in various large producing countries of the world in the years stated was as follows :—

COUNTRY.	YEAR.	NUMBER OF SHEEP.
Australia	1910	91,676,231
New Zealand	1910	24,269,620
Argentina	1908	67,212,000
United Kingdom ..	1910	31,184,587

These figures show the relative importance of the home grown wool to the foreign wool. English farmers undoubtedly have to face severe competition in the wool supplies from abroad, yet they should still be able to maintain a fair position for their own wool—if properly marketed. It is here, however, that the difficulty arises, and, inasmuch as the English wool is too often not properly marketed, our farmers are at a double disadvantage.

Wool from abroad is carefully graded into different classes, packed in bales, each bale containing a recognisable class of wool, and sent in large consignments to the London market, where buyers from all parts of the world bid against one another for it ; whereas the English wool is not graded, or very imperfectly so, is packed in bulky sheets, is sold in small or comparatively small lots either through local brokers or at local auction fairs, fetches a lower price because the dealer has to buy all sorts together, and in many cases passes through several hands before reaching the woollen manufacturers, intermediate profits being thus made which ought to go into the pockets of the sheep farmers themselves.

Individually the farmers might not be able to alter conditions which are so much to their disadvantage ; but the opinion is entertained that, by a resort to combination on co-operative lines, and by improving the conditions under which their wool is offered to the buyers, they would be in a better position to compete on the London market with wool from abroad, or, alternatively, should be able to get better prices when selling their wool, for home use, on other English markets.

In January, 1912, a conference of those interested in the wool-growing industry was held at the offices of the Society to consider the whole question, and a resolution was passed to the effect that the advantages to be obtained by the sheep farmers of England and Wales from a scheme of organisation of the wool industry on co-operative lines appeared to be very great, and that it was, therefore, desirable that action should be taken in the matter.

G.—ORGANISATION OF THE HOP INDUSTRY.

The hop industry is one that offers considerable scope for co-operative effort, though the general position is one of great complexity, and any efforts that are made to deal with it on lines that would be really effective must needs be attended by considerable difficulty.

Under existing conditions hops are, as a rule, handled by four groups of persons in their passing from the hop fields to the brewer's tun—(1) the actual grower ; (2) the factor, otherwise the grower's agent ; (3) the hop merchant who buys from the factor, and (4) the brewer who buys from the hop merchant. There are thus at least two intermediate profits made by traders whose main purpose, it would seem, is to act as middlemen in passing the hops on to the brewer. The rates of commission charged are various, but they are regarded by the growers as unduly high for the services rendered. In Herefordshire the difference between what the grower receives and what the brewer pays is said to be generally about 15 per cent.

Years ago the hop merchants bought up practically the whole crop by the end of the year, if not by the end of November, only determined holders keeping their production on hand after that period. In this way the merchant served a really useful purpose towards the grower, who received the money for one crop before he required to start on the raising of another.

More recently the merchants have adopted the practice of making smaller purchases at intervals all the year round, on a "hand-to-mouth" principle. It is even alleged that some of them do not really deal in hops, but merely buy, on commission, such supplies as may be asked for from them by the brewers to meet immediate requirements.

As the result of this change of practice on the part of the merchants, the grower's capital is locked up, and he may find it necessary to make constant efforts to sell in the autumn—thus helping to bring about a fall in prices—after he has

already had to depend on the obtaining of advances on his growing crop.

In no other branch of farming does the practice of advances, both on the growing crop and on the crop itself after it has been harvested, prevail to the same extent as is the case in the hop industry. A grower may get as many as three separate advances before he finally sells his crop—(1) in June or July, when he wants money to meet the cost of washing the plants; (2) at picking time, to pay the pickers (whose wages are one of the heaviest items in the cost of hop growing); and (3) when the produce has been lodged in the factor's warehouse. The seeking of these advances has become a regular practice in the hop industry. They are obtained from the factor, who, incidentally, strengthens his hold over the grower thereby, and, in these circumstances, controls the situation. He does so, too, the more completely because in accordance with his business policy he rarely allows the grower to know the name of the merchant to whom he passes on the hops he handles.

It is, again, an established practice for hop growers not to pay until the end of the year for their manures and other necessities, and, in the circumstances, it may be assumed that they pay much higher prices than would be the case if they were to purchase through an agricultural co-operative trading society.

As the final outcome of these various conditions the hop growers do not get as much as they ought, and the brewers pay more than they should, while the industry itself is described by a leading authority as "always in a thoroughly demoralised state from top to bottom."

The problem that arises resolves itself into the question as to the possibility or otherwise of the growers adopting some method of co-operation by means of which they would be brought into closer touch with the brewers, the intermediate profits thus being saved, or reduced, to the advantage of both. This consideration should appeal to the brewers no less than to the growers, considering that the financial position of the former has been so greatly affected by recent

increases in taxation and licence duties. In the 1911 season a leading brewery company did buy direct from the growers. Could this procedure be expanded by organisation into a recognised system?

It has been suggested that the growers should form societies which would set up co-operative hop exchanges where the hops would be stored until they could be disposed of at satisfactory prices. By means of such combination, also, it is thought the growers would be able to transact business on a sufficiently large scale to attract the ultimate buyer without the intervention of middlemen.

The provision of these exchanges, with the requisite cold storage in order to keep the hops in good condition, would, however, be a costly undertaking, and probably beyond the means of growers who already depend on advances to pay the cost even of raising their crops, though expenditure on this account might be avoided to a certain extent by making use of existing hop warehouses.

Assuming that the society could overcome the difficulty in regard to the stores, there would still be left the further serious question in regard to credit.

With combination and, also, with direct dealings between the growers and the brewers, there should be a greater possibility of disposing of the crop in good time, and in this case the need for credit would be lessened; but the view is entertained that credit could not be dispensed with altogether. There would still be growers of various types who could not do without advances.

Would a co-operative society be able to control the large amount of capital, and, also, secure the extremely able and careful management, needed to enable it to face the risk of advances on growing crops in so notoriously hazardous a business as hop production? True it is that the factors are prepared to face the risk, and if they do there may seem to be no reason why a co-operative society should not; yet though, in a general way, the risk may be small, there is always the possibility of heavy losses, as, for instance, from the appearance in the hop plants, at the last moment, of

"mould" or "red spider"; and it would be a question whether such losses could be met by a co-operative society of only limited resources.

H.—CO-OPERATIVE BACON FACTORIES.

The oft-repeated enquiry, "Why cannot we grow, or produce, these things ourselves?" would seem to be especially applicable in the case of bacon, in regard to which there are no considerations as to "vast expanses of virgin soils in new countries," "cheapness of ocean transport," "difference in seasons," and so on, to account for the magnitude of our imports; and how great in extent the imports of bacon into the United Kingdom really are is shown by the following figures for the year 1911:—

BACON IMPORTS FROM						VALUE.
						£
Denmark	..	..	..	..	..	6,690,937
United States of America	..	..	..	..	..	5,067,533
Canada	..	..	..	..	..	1,793,946
Other countries	..	..	..	..	..	910,998
Total..	..	..	..	..	..	14,463,414

The problem is an extremely difficult one to solve, and presents considerations which would probably not occur to individuals who, being unacquainted with the facts of the situation, might think that more might, and should, already have been done in the direction stated.

One important matter of detail, for instance, is that to conduct a co-operative bacon factory successfully it is necessary to have always a regular and adequate supply of pigs; though a no less important matter of detail, and one upon which great stress is laid, is that the pigs supplied should be of the right quality, since unless this condition also be fulfilled, failure might still result, whatever the proportions of the supply.

The definite minimum with which a factory can deal and continue to be financially successful has not yet been established; but it is quite certain that the working expenses

are not increased proportionately to the number of pigs handled. From experience it seems to be tolerably certain that the working expenses in dealing with 500 per week, while greater, are still comparable with the expenses when only 100 pass through the factory weekly, though in the latter case the initial cost of construction and equipment would be considerably less, yet even then not proportionately so. Judging from the co-operative factories established in other countries and from private concerns in our own, it seems that a weekly supply of from 300 to 500 pigs is necessary, the latter figure being the more desirable. The smaller of these quantities represents a supply of over 1,500 per annum, a number sufficiently large to be secured only with some difficulty even in those districts which are noted for their output of pigs of the right size and quality, suitable for manufacture into high quality bacon.

Hence, to begin with, a co-operative factory would have to be located in a district where an adequate supply of pigs would be available. Even then, however, there would require to be a guarantee of absolute loyalty on the part of the members towards their society, owing to the danger that they might yield to the temptation of private bacon factories, and accept higher prices offered with the design of withdrawing supplies from the co-operative factory, though such prices would, of course, only be given until the new factory had collapsed.

In Denmark, where co-operative bacon factories have been highly successful, the difficulty here in question is met by the members of a society voluntarily binding themselves, under a penalty, to send all their pigs to the co-operative bacon factories. It is feared, however, that in England, where the co-operative idea is not yet so fully established as in Denmark, there would be great difficulty in securing acceptance of the principle of such a penalty as this.

Another no less important matter of detail is that for the starting of a co-operative bacon factory on a sufficiently large scale capital to the extent of from £15,000 to £20,000 would be necessary. Building and equipment would alone

cost about £7,000. This capital should also be supplied, in the main, by the farmers themselves in order that they might have a sufficient financial interest in the concern to ensure their being loyal thereto.

Other conditions essential to success are, that the factory should be within sufficiently easy reach of a large industrial centre to allow of a ready sale for offal and by-products ; that the manager should be thoroughly conversant with all branches of the trade, and should understand the best and most remunerative methods of dealing with the by-products of the pig ; and that the directors should be alike capable business men and farmers having a good knowledge of the pig trade.

At Roscrea, Tipperary, Ireland, a co-operative bacon factory was started in 1909, as a society under the provisions of the Industrial and Provident Societies Act, 1893. It has a subscribed capital of £15,000 and some 2,800 members, mostly farmers, there being thus a widespread interest in the undertaking and especially among those who are looked to for the necessary supplies. The members of the Roscrea society, like those of the Danish bacon factory societies, agree, under a penalty, to send to the factory all the pigs they may raise which are of bacon weights. There are, also, about 50 private bacon factories in various parts of the United Kingdom. As regards co-operative bacon factories in England and Wales, one is now being put up at Hitchin, Hertfordshire, under a scheme in which Lord Lucas is interested. The West Sussex branch of the Farmers' Union has decided to adopt a scheme on co-operative lines, and has appealed for guidance to the A. O. S., which is drawing up rules with a view to the early registration of a co-operative bacon-curing factory. The subject is also under consideration in other districts.

BACON IMPORTS.

It is a matter for consideration whether the time has not come for the making of more vigorous efforts to promote bacon production at home.

The total supplies from abroad, and more especially those from certain countries, have been steadily diminishing of late years, and retail prices have risen so much that bacon is likely to become a luxury for the well-to-do rather than remain a favourite item in the popular dietary.

In the matter of bacon imports the significance of the figures in the following table will be readily appreciated :—

FROM	1906.	1907.	1908.	1909.	1910.	1911.
	cwts.	cwts.	cwts.	cwts.	cwts.	cwts.
Denmark	1,463,880	1,806,934	2,051,148	1,809,745	1,794,416	2,122,087
U.S.A. . .	2,775,919	2,280,644	2,541,945	2,189,053	1,306,921	1,817,835
Canada .	1,190,524	1,192,401	1,004,126	443,386	411,935	615,807
Other countries	112,299	85,626	88,523	183,279	350,117	313,009
Total . .	5,542,622	5,365,605	5,685,742	4,625,463	3,863,389	4,868,738

Comparing 1906 with 1911 it will be seen that in the last-mentioned year there was a decline of 958,084 cwts. in the importations from the United States, and one of 574,718 cwts. in those from Canada,—a total of 1,532,802 cwts., mainly due to the fact that the increasing consumption in those countries is leaving only a steadily diminishing quantity available for export. It is true that we are importing more from Denmark and from “other countries,” but the net result shows a decline in the total imports in 1911, as compared with 1906, of 673,884 cwts.

It must, of course, be remembered that what is known as “swine husbandry” is, to a large extent, an adjunct of the dairy industry, bacon production in Denmark, Canada and Ireland being mainly dependent on the feeding of the pigs on separated milk from the butter factories or otherwise. In England there are only comparatively small quantities of separated milk because the farmers gain more by sending their whole milk to the towns instead of making butter.

DANISH BACON FACTORIES.

It is further to be borne in mind—should the starting of more of these factories be taken in hand—that in Denmark, as told by Mr. Loudon M. Douglas in his pamphlet on “Co-operative Bacon Curing,” the breeding of swine is looked upon as so important a feature of farming that the swine husbandry of the country is directed by a special State adviser, who has a staff of seven assistants. This, says Mr. Douglas, is undoubtedly the reason why the pigs of Denmark have reached such perfection ; and he proceeds :—

To begin with, the native pig was wholly unsuited for bacon purposes, and various foreign breeds were introduced, notably the Yorkshire breed from England. Under the skilled guidance of State officials, a new race of swine was produced, and is universal throughout the country, under the title of the Land Race, from which the bacon is now derived. Another great feature of swine husbandry in Denmark is the existence of breeding centres, which have been known since 1893. These breeding centres are meant to control the whole business of swine husbandry throughout the country, and they receive a substantial subsidy from the Government to enable them to carry on their work, which they do under the following rules :—

1. The hogs in the breeding centres must be either of the pure Danish or of the pure Yorkshire breed.
2. The breeding centre must be under the control of a committee appointed by the local agricultural society.
3. The breeding centre must consist of not less than one selected boar and three selected sows.
4. The directorate of the local agricultural society, or a committee appointed by the local agricultural society, select the hogs, which must be approved by the district committee.
5. The owners must see that the breeding animals and their offspring are marked.
6. The owner of the breeding centre must keep a record of pedigrees and sales. The record must be approved by the district committee.

In this way the best type of bacon pigs are produced, and the whole farming community benefits accordingly ; but co-operation is applied to this industry in other ways besides the organisation of individual factories. The various factories co-operate together to give each other mutual help and advice, and in the disposal of the products in the United Kingdom there is also co-operation, so that the expenses of distribution are reduced to a minimum, the net result being that the bacon industry of Denmark is the most prosperous development of its agriculture.

THE PROBLEM FOR CO-OPERATORS.

While the opportunities for an increased production of bacon appear to be so great, the aforesaid risks and difficulties in the setting up of co-operative bacon factories, in the United Kingdom have led to the question being raised as to whether agricultural co-operative societies should not, preferably, content themselves with ensuring to their members greater opportunities for the remunerative sale of live pigs. What has been done in this direction by the Eastern Counties Farmers' Co-operative Association, Ltd., is told in the section dealing with the co-operative sale of live stock; and in some quarters where the subject is being very closely considered there is a strong impression that the Eastern Counties farmers have done better by selling their live pigs co-operatively than they probably would if they had started bacon factories on their own account. In any case it is thought desirable that the question should be looked at closely from the dual standpoint here suggested.

I.—GRIST MILLING.

As a means of obtaining, for their live stock, feeding stuffs of assured quality at moderate prices, a number of societies have resorted to co-operative milling, either taking over one of the existing mills, disused or otherwise, to be found in many different parts of the country, or else setting up an entirely new milling plant.

In some instances members send their own barley to the co-operative mill, and have it ground there, with an assurance that they will get their own barley back again after it has been ground at a lower rate than an ordinary miller would charge. In other instances the society itself procures the grain, prepares the meal, and sells to its members. In most cases the co-operative milling is carried on as an addition to the special purposes for which the societies have been formed—sale of agricultural necessities or eggs and poultry, or so on—and they find the milling a useful adjunct to their

other activities. The Sherston (Wiltshire) Co-operative Milling Society devotes itself exclusively to milling. The members, all of whom are pig-feeders, have taken over a mill previously operated by a private owner. It is worked by water power, but there are times when this is inadequate owing to the lowness of the water in the stream from which the water supply comes. To remedy this defect, the society has put in a gas engine which allows of the mill being worked when it would otherwise have to stop. The society has fattened pigs on its own account as a means of utilising any surplus meal after supplying the want of purchasers.

The Harwarden (Cheshire) and District Co-operative Farmers Society took over, in June, 1910, a mill that was erected as long ago as 1750. It is one of the usual type of old country mills, having two pairs of stones, worked by an overshot wheel, and is in good working order still. The society has found in the grinding of maize, oats and barley for its members a good source of revenue.

As against this example might be put that of the Milton (Cambridgeshire) and District Small Holders Co-operative Society which, established in 1911, has set up, at a cost of about £100, a modern milling plant which is operated by an oil engine and combines simplicity in working with a low cost of running. The mill is useful for the crushing of oats as well as for grinding, and the members not only get good feeding stuffs for their live stock but divide a balance of profits at the end of the year.

The Eastern Counties Farmers Co-operative Association has for several years had a mill which turns out large quantities of pig feed, etc., the mill often being at work both night and day.

The Preston and District Farmers Trading Society has a mill which is operated by electricity, the premises being also fitted with electric lighting. The society has already a branch mill, in addition, and contemplates taking over still another.

In June, 1912, the Whiteparish (Wiltshire) and District Agricultural Trading Society, Ltd., an offshoot of the Southern

Branch of the Agricultural Organisation Society, and only formed in October, 1911, opened a grinding and crushing mill which is to be operated on co-operative lines and is fitted up with machinery equal to meeting a large demand. The necessary capital was advanced to the society by its chairman, Mr. W. T. Spark, on terms advantageous to the co-operators, who hope to pay off the purchase-money in a few years and so have the mill as their own, while in the meantime they will get their milling done at lower terms and participate in the profits made.

There is scope for much more to be done in one or other of these various directions. A revival of milling in English villages would mean the revival of a decayed industry for which there is still much scope alike in the direct advantages offered to farmers or small holders and in the provision of another means of rural employment. It has been found that within the area of the Southern Branch of the A. O. S. there are about 250 water mills, namely, in Wiltshire 145, Hampshire 50, and Dorsetshire 55; and these figures suggest a considerable range of opportunities in the country in general of which agricultural co-operative societies, whether specially formed for the purpose or otherwise, might take advantage.

K.—CO-OPERATIVE CREDIT.

By agricultural co-operative credit is to be understood a system of credit which assists persons already in occupation of land to cultivate it efficiently, or otherwise to command capital designed to meet exclusively reproductive purposes. Agricultural credit societies, though often confused with them, thus differ essentially from "land banks" designed to assist persons in acquiring the ownership of land. To the former object the Agricultural Organisation Society has paid much attention; the latter is one that does not come within the scheme of its own particular operations.

As regards agricultural co-operative credit proper, what

has thus far been done by the Society has led to a laying of the foundations, rather than to the actual creation, of an adequate system in England and Wales.

Whilst the results attained may have fallen below anticipations, it has to be remembered that in Germany it took about twenty years to form the first credit societies, and that in various other countries the advance made at the outset was so slow that the pioneer efforts here do not compare at all unfavourably with theirs, allowing for a corresponding period of time. Then there are the further facts (1) that exceptional circumstances in England and Wales have retarded the expansion of the Raiffeisen system here as compared with the present-day proportions thereof in Continental countries and in Ireland ; (2) that even in those countries the advance of the system was due to special causes ; and (3) that developments are now taking place which should lead to a greater rate of progress being made in England in the early future.

In order that the whole situation may be clearly understood, it is desirable that an outline of the various stages in the policy adopted by the A. O. S. in respect to agricultural co-operative credit should be given.

The first step taken was in the effecting of an amalgamation, in 1904, with the Co-operative Banks Association, several agricultural credit societies which had then already been established by the latter body thus becoming affiliated to the former.

Efforts were made by the A. O. S. to increase the number of these societies through its propaganda work ; but one of the greatest difficulties lay in the direction of raising the necessary capital. There had been an expectation that much of this capital would be provided by means of deposits through the utilisation of the credit societies as savings banks, savings already gained through production being thus used over again for production ; but the practical difficulty arose that money on deposit, and subject to repayment on demand or at short notice, could not well be advanced by a society of limited means to borrowers who might not be able

to repay before the completion of the agricultural operations for which they obtained their loans.

CENTRAL CO-OPERATIVE AGRICULTURAL BANK. "

It was sought to overcome this difficulty by forming a Central Co-operative Agricultural Bank, a number of gentlemen interested in the movement having undertaken to subscribe the necessary initial capital. Such bank was registered late in 1906 under the title of the Central Co-operative Agricultural Bank, Ltd., though business was not commenced until September, 1907. The special purpose of the Central Bank was to make advances to agricultural credit societies, and a number of new societies of this type were started. In 1908 the annual meeting of the A. O. S. passed a resolution in favour of the Central Bank making advances also to co-operative societies of other kinds, and in 1909 a scheme for extending the business of the bank on these lines was adopted by the directors.

It was proposed, under such scheme, to raise the necessary working capital by (a) the issue of shares ; (b) guarantees, and (c) the receiving of deposits from societies having surplus funds or, alternatively, the obtaining of loans from joint stock banks under conditions more favourable than those which local societies could command when acting separately. It was further hoped to make advances, not only to local affiliated credit societies (though not direct to individual borrowers), but to local agricultural co-operative societies which might need funds for—

1. The erection, for trade purposes, of such buildings as dairy factories or sheds for the storage of feeding-stuffs and other agricultural requirements.

2. The holding of large stocks, societies finding, in many circumstances, that it is impossible to develop any considerable business when they buy only against orders.

3. The appointment of expert managers.

4. The purchase of expensive implements for hiring to members.

5. Organisation of the sale of produce on such lines, apart from cost of depôts, as will enable a society to pay for the produce

on receipt, and thus compete with the higglers and others who pay cash down.

6. Purchase of pedigree animals for the improvement of members' live stock.

If such a programme as this could have been fully carried out, the powers of usefulness of the Central Bank would have been greatly increased, and a very considerable impetus given to the movement generally by the inclusion therein of a much wider range of agricultural interests than could otherwise be embraced.

It was felt, however, that the Central Bank would require to have a credit of at least £25,000, and the hope was entertained that the Treasury would be willing to help by giving it a guarantee to that amount.

DIFFICULTIES AND HINDRANCES.

Apart from these questions of finance, there were hindrances in other directions to the rapid advance of the co-operative credit movement.

Social and economic conditions among the agricultural classes in England and Wales are somewhat different from those of the corresponding classes in most of the countries where Raiffeisen banks have developed into a great institution.

Those banks have their best chance of success in countries or in localities where the people are all, or mainly, on an approximately equal footing; but in England there is a much greater variety in the social standing of agriculturists in general than is the case in the other countries in question, while in England, also, the average small farmer would be as little disposed to join with the agricultural labourer in the unlimited liability of a Raiffeisen bank as the large farmer, in turn, would be to join in with the small farmer. Raiffeisen banks in England are thus most likely to succeed when they can be established among colonies of small holders on a footing of social equality with one another, and having wants in common which call for collective action, though it must

be distinctly borne in mind that Raiffeisen banks are not established with any idea of making a profit.

Economically, although there is much scope for the agricultural credit system in England and Wales, the actual need for it may not be so great as it is in, say, Germany, India, or Ireland, owing, partly to the better financial position here, class for class, of those concerned, and partly to our own more highly developed joint stock banking system. Experience shows that Raiffeisen banks are generally developed according to the urgency of national requirements, and this urgency may especially depend on, among other factors, the extent to which those it is hoped to benefit may already be in the clutches of usurers.

Supplementing these social and economic considerations comes that innate conservatism of the British agriculturist which makes him reluctant to adopt new ideas of any kind, and more especially so in regard to an innovation which involves, not only the borrowing of money—a procedure which many of his class seem to regard as in itself a moral iniquity—but going before his neighbours, explaining to them his needs, and putting himself under an obligation to them for an advance they are to make to him at their joint and individual risk. He has still to be convinced that growing produce or raising stock for sale is a business, and that, under present day conditions, all business enterprises are run on credit.

SOCIETIES FORMED.

The number of agricultural credit societies affiliated to the A. O. S. is forty-one, while the amount of business done is not large. Returns in respect to thirty-one societies, summarised in a leaflet (No. 260) issued by the Board of Agriculture, show that at the end of 1910 they had 663 members, an average of twenty-one per society; that during the year they advanced 119 loans to their members, so that less than one in five of the members took out a loan during the year; that the loans aggregated £1,390 and averaged £12 per loan, with a range of from £3 to £40 in individual

cases ; and that the net profit of the thirty-one societies on the year's working was £15. Some of the societies are doing very well, and this is especially the case with those at Scawby and Friskney, Lincolnshire ; Wiggenhall and Whissonsett, Norfolk ; Coggleshall and Tiptree, Essex ; and Hedge End, Hampshire ; but others are doing very little, and still others are on the point of being wound up.

BENEFITS OF THE SYSTEM.

Whilst it is perfectly true that the actual need for special credit and banking facilities for the agriculturist is not so great in England as in various other countries, it is great enough both to justify all that it has been sought to do and to call for still further action.

Growers who have inherited and still cherish the prejudices of their forefathers against raising a loan for carrying on their business of agriculture have no hesitation in depending on long credit obtained from some dealer or trader ; though in the result they may pay heavily for the favour, finding themselves bound to purchase from the dealer or trader all their requirements, of such quality as it suits him to supply, and at such prices as he may please to ask ; or they may, alternatively—if not in addition—be under an obligation to let him have their produce, when it is ready, on practically his own terms.

In such cases as these an agricultural credit society would, among other things, restore the grower to independence of the credit-giving but much-exacting dealer, and, while providing him with the means to conduct his business on a business footing, leave him free to buy and sell under the most favourable conditions. Although, too, the extent of the operations carried on may appear small, the reports made by the societies show that much benefit has been conferred by them on many a small grower by supplying him with a modest sum which, though insignificant from the point of view of London financiers, may have helped him to raise stock or to cultivate his holding with a success he might otherwise have hoped for in vain.

TYPICAL SOCIETIES.

A few typical examples will show more clearly the lines on which the societies operate.

The Scawby society is the oldest of the agricultural co-operative credit societies now in England. Scawby is a rural parish in Lincolnshire, two miles from the market town of Brigg, has a population of about 1,000, and an acreage under crops and grass of 2,825 acres. The land is held in 39 holdings, of which 26 are under 50 acres each. The society was formed as the final outcome of a public meeting held on July 3rd, 1894, under the chairmanship of the principal landowner of the parish, and addressed by the secretary of the Agricultural Banks Association, but was not registered, under the Friendly Societies Act, until November 1st, 1895.

The object of the society, as stated in the rules, is to create funds to be lent out to its members; but every loan must be one that, in the opinion of the society, offers a sufficient prospect of repaying itself by the production, business or economy which it will enable the borrower to effect. No part of the funds can be divided by way of profit, bonus, dividend or otherwise among the members. Any surplus accruing to the society after payment of the costs of management must be carried to a reserve fund which by vote of the general meeting of the members can be drawn upon to meet exceptional losses. Only persons (male or female) owning or occupying land or residing in the parish of Scawby or its immediate neighbourhood can become members, and applicants must be approved by the committee. Each member has only one vote, and all are liable to an equal levy in the event of funds being required to make up any deficiency in the working of the society; in other words, all the members are equally, jointly and severally liable for any debts incurred by the society, and no limit is fixed for their liability. There are no shares, and neither is there any share capital. The affairs of the society are conducted by the chairman, a committee of six,

(elected annually by ballot at the general meeting), and an honorary secretary and treasurer, this particular post having been filled from the outset by the rate collector of the parish.

With an initial membership of nine, (increased by the end of 1910 to 32), the society started by opening an account with the local branch of a joint stock bank, the chairman, in his own name and that of the society, giving a guarantee to the extent of £100 for sums due to the bank. At one time the overdraft amounted to £94, but subsequently, with the growth of deposits, the society has generally had a balance to its credit. The bank charges 5 per cent. on overdrafts and allows 2 per cent. on current account credit balances. The society pays 3 per cent. on deposits, and these amounted, at the end of 1910, to £186. Deposits are to be left with the society for not less than three months, and one month's notice must be given of withdrawal.

The chief purpose of the society is to make loans to its members for profitable purposes at a low rate of interest. In the total of 32 members at the end of 1910 there were included eleven small farmers, three market gardeners, three blacksmiths, two carpenters, two labourers, a butcher, a horse-dealer, a carter, a woodman, a miner, and a foreman, most of whom, in addition to their main occupations, cultivate small holdings or allotments. The first loan granted was one of £30 to a small holder to enable him to buy some lambs, the amount to be repaid in eight months. In the first year two loans were made, in the second only one, and in the third two, but in 1910 six were made, aggregating £175. In sixteen years the society advanced to its members 78 loans aggregating £2,300, and ranging from £5 to the maximum of £50, with an average of nearly £30. At first the society charged 5 per cent. per annum on loans ; it soon raised the rate to 6 per cent. in order to build up a reserve fund, and on attaining this object it put back the rate to 5 per cent. again. Loans are granted mainly for the purchase of cows, sheep, lambs, pigs, or seeds, or to enable a borrower to hold over stock or corn for better prices. On

three occasions sureties have been called on to make good part of a loan ; but the society itself has made no bad debts and has incurred no loss. " Several of the members," as told in Leaflet No. 261 of the Board of Agriculture, from which these details are taken, " say the existence of the society has enabled them to undertake profitable transactions with sums borrowed from the society which they could not have obtained elsewhere, and one family, at least, has, by its own thrift and industry, risen from the position of day-labourers to that of substantial small farmers."

The Wiggenhall (Norfolk) Agricultural Credit Society, registered in 1896, was started with the help of a sum of £70 placed in the hands of the treasurer (a representative of a local joint stock bank) as deposits by the chairman and two other members of the committee, and the purposes for which loans are granted are such as purchase of live stock, feeding stuffs, seeds, implements or manure, repairing and working greenhouses, and hire of horse labour. The membership at the end of 1910 was 45, and nine loans were granted during the year, the aggregate amount advanced being £127.

From the reports of various other societies the following might also be given :—

MOUNTSORREL CREDIT SOCIETY.—Three of the borrowers are small holders under the County Council, which placed an excessively high valuation on the holdings, thus absorbing practically all the applicants' capital. The loans proved an invaluable assistance in enabling the borrowers to properly stock and equip the land they had acquired. . . . All the monthly payments have been made with exemplary punctuality.

HEDGE END CREDIT SOCIETY.—One member was able to plant a particular field with potatoes through a loan. Many of them could not have put labour into their holdings but for loans.

FRISKNEY CREDIT SOCIETY.—We lent money in two instances to labourers to buy seed potatoes and pigs, and also to assist three young men to take holdings, one to buy implements, another stock, and another to retain stock which he would otherwise have had to mortgage.

CRADLEY AND DISTRICT CREDIT SOCIETY.—Our society is a great help to its members. We have had several applications for £50 loans, mostly for buying cattle and pigs.

INCREASING NEED.

Then, whatever the exact proportions of the need to-day, the planting of more small holders on the soil will increase that need still further, while the creation of small-holder colonies should greatly facilitate the formation of credit banks among groups of cultivators of the same social standing.

Nor is it the small holders alone whose wants require to be considered. There are other growers, of the type of small farmers, who stand in want of credit on a somewhat larger scale, and for whom provision should no less be made, more especially in view of the increasing difficulty they have found of late years in dealing with the ordinary banks, owing to the steady conversion of local private banks into country branches of great Metropolitan banking concerns.

Altogether, the actual need for greater credit and banking facilities for agriculturists must be regarded as much less a question of the day than the problem as to the best way in which those facilities can be afforded.

ATTITUDE OF JOINT STOCK BANKS.

Further action by the Central Co-operative Agricultural Bank has been in abeyance of late owing to (1) the limitations of its available funds; (2) the declared intention of the Government to deal with the question of agricultural credit; and (3) the formulating by the Board of Agriculture of certain plans which at one time made it seem possible that a continuance of the operations of the Central Bank might be less necessary.

These plans referred especially to the prospect of the Board being able to arrange with leading joint stock banks, having branches in rural districts, for the financing of agricultural co-operative credit societies. Certain of the banks in question have expressed their willingness to allow the managers of their country branches to help in the formation of credit societies among small holders and allotment

holders ; to give advice to the officers on matters of book-keeping ; to assist free of charge in the audit of the annual returns ; and, when a society is being conducted on sound business lines, to accept the post of unpaid treasurer. The banks in question have also agreed to allow the societies interest at the rate of 2 per cent. on daily credit balance on current account, and $2\frac{1}{2}$ per cent. on any reserve fund deposit, and, further, to give favourable consideration to applications from such societies for advances, " but without departing from ordinary banking principles."

This particular condition gives rise to difficulties, since agricultural credit banks established on the basis of Raiffeisen unlimited liability do themselves depart from " ordinary banking principles," while the stipulation to be imposed would require the societies seeking advances to give security to an extent and of a nature which would be beyond the powers of, at least, the majority of them.

ALTERNATIVES.

One thus naturally reverts to the principle of the Central Credit Bank and to the obviously much more practical idea that, instead of the joint stock banks and the agricultural credit societies being left to deal direct with one another, the Central Credit Bank should act as an intermediary, and itself be enabled to give to the joint stock banks an adequate guarantee for any advances it might arrange with them to make to the local societies. The Central Credit Bank would thus in no way work to the prejudice of the joint stock banks, but would, in effect, facilitate their operations by giving them the security they required ; while the principle of a Central Credit Bank, one must remember, forms the basis of the system adopted in Germany, India, and many other countries, including even Ireland itself.

If the alternative here in question were adopted, the main question left to be decided would be the particular form of support which could, or should, be rendered to the Central

Credit Bank to enable it to fulfil a most useful function, for which it would be pre-eminently suited.

Considering the wide extent of the very practical aid that Continental Governments render to the Central Credit Banks of their own country, it would not be unreasonable to expect from our own Government some degree of financial assistance to the movement here, more especially as the amount involved would be comparatively small, while it would be a matter, not of making an actual grant, but either of advancing a certain sum on loan or of giving a State credit for such sum on the guarantee of shares (unpaid), subscribed for by responsible persons under the constitution of the present Central Co-operative Bank. There is no doubt that, with the desired credit of £25,000, the Central Co-operative Credit Bank would have been able to do much more than has, in the circumstances, been within its powers ; and all that is now required in order that it may begin in earnest with the carrying out of its full programme is the control of some such amount of credit as this.

It was to a Central Credit Bank operating on the lines here indicated that the A. O. S. looked for a solution of the problem which has arisen ; and it entertained the view that the Government would incur no risk in regard to the small guarantee that would suffice to set up and maintain in working condition agricultural credit machinery of unquestionable importance, not alone to agricultural organisation, but also to the final success of the elaborate scheme of land settlement by small holdings which it is being sought to establish under the Small Holdings Act.

The President of the Agricultural Organisation Society has long taken a practical interest in this question of co-operative credit.

On the initiative of Mr. Yerburch, the Central Chamber of Agriculture appointed a Committee in November, 1894, " to inquire and report how far the system of agricultural credit banks may be extended to this country." The Committee took the views of various authorities on the subject and presented a report in May, 1895. Pointing to

the disadvantages of the agricultural as compared with the mercantile and commercial classes in obtaining credit, they said :—

There is no doubt that farmers have a difficulty in obtaining advances, and are often forced to realise stock or produce which they might otherwise more profitably hold.

One result of the absence of legitimate and recognised facilities for obtaining credit has been in many instances to drive farmers into the hands of money-lenders of the worst type. In one case brought before your Committee, it was stated that, during seven months of last year, 105 bills of exchange were given by small farmers and dairymen to a money-lending agency operating in agricultural districts—all of them for the minimum sum of £30 allowed by the Act. It appears that in a large majority of instances in which loans are thus given the amount of interest charged is 60 per cent. or more.

The Committee considered that the extent to which the abuses of money-lending existed, especially in rural districts, called for the serious consideration of the Legislature. There appeared to them, however, to be difficulties inseparable from the conditions of farming in the way of assimilating mercantile and agricultural systems of credit, and, though they considered that the principle of the agricultural credit banks advocated by the Agricultural Banks Association was a sound one, it was important to remember, they said, that while such banks might probably be of considerable service to labourers, small holders and village tradesmen in strictly limited areas and under favourable conditions, they would be of no use to the larger tenant farmers. As for the Continental agricultural credit banks designed for the accommodation of large occupiers of land, they appeared to offer no advantages not already secured here through our highly developed system of joint stock banking. The report concluded :—

In view of the great difficulty attending the whole subject, and of the alterations which would be necessary in the law before agricultural could be assimilated to commercial credit, your Committee regret that they are unable to make any definite proposal which might lead to the improvement of the methods now in operation for obtaining agricultural credit.

In 1895 Mr. Yerburgh, in the House of Commons, asked the Chancellor of the Exchequer, "Whether, in view of the great benefits which have accrued to the poorer agricultural classes of the community from the operations on the Continent of the Raiffeisen system of co-operative credit, as set forth in the Reports furnished to the Royal Commission on Labour upon Germany and Italy, and of the further fact that the Austrian Provincial Governments have assisted in the development of the said system in Austria, he will appoint a Commission to visit those countries and take evidence on the subject"; and, although it was not considered necessary to appoint a Commission, a series of reports on co-operative agricultural credit associations was obtained by the Government from her Majesty's representatives in various Continental countries, and duly published.

Mr. Yerburgh was also the means of bringing about the appointment, in 1897, of a Select Committee on Money Lending, himself being appointed a member thereon; and in the Report ultimately presented by this Committee it was said:—

Your Committee have received important evidence as to the operation of co-operative banks on the Continent and in some parts of the United Kingdom. It appears that the establishment of such banks has been of great use in abolishing, or greatly diminishing, the trade of lending money at exorbitant rates of interest to the poorer classes.

Your Committee are impressed with the extreme usefulness of these institutions, and they are of opinion that they must meet a real want, especially in agricultural districts.

Mr. Yerburgh also induced the Small Holdings Committee of 1905, of which he was a member, to include the following in their Report:—

They are further of opinion that in view of the great advantage offered to the small holders by the employment of the form of credit known by the name of its founder, Raiffeisen, some system should be adopted such as that advocated by the Agricultural Organisation Society, and put forward by Mr. Sutton Nelthorpe in his evidence, under which an advance from the Post Office

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Savings Bank's deposits would be made available for the use of village co-operative credit societies, on such approved security as might be offered by a central co-operative agricultural credit association.

In connection with this proposal for the utilisation of Post Office Savings Bank deposits for the financing of co-operative credit societies, and enabling them to make advances for reproductive purposes, it might be mentioned that in Belgium a law of June 21, 1894, authorised the Savings Bank of that country to utilise part of its funds as loans to co-operative societies of agricultural credit, the object of this modification of the previously existing law being—as stated by M. Mahillon, Director of the Belgian Savings Bank, in a Manual on Credit published by him—to favour the development in Belgium of co-operative credit societies similar to those that had succeeded so remarkably in Germany, and had multiplied so greatly in recent years throughout Central Europe in general.

Further, a suggestion has been made with regard to modifying in certain cases the principle on which, up till now, credit societies in this country have been formed.

All the existing agricultural credit societies, registered under the Friendly Societies Act, are based on unlimited liability of the members. There is, however, still a certain amount of prejudice entertained towards this principle, and there is, besides, the need to provide for the special requirements of small farmers who may desire a ready means of securing larger advances than a Raiffeisen society could make, but who may also themselves be averse—especially when these large advances come into question—to unlimited liability.

These difficulties, it has been thought, would be overcome if the rules applying to co-operative credit societies were so altered that, while the societies were still registered under the Friendly Societies Act, they might, by special authority of the Treasury, and if they so desired, operate on the principle of liability limited by guarantee.

Particularly, it has been suggested, might the principle of a limitation in the liability of members be found to be applicable to those places which are not strictly rural, and in which, owing to a changing population, it is almost impossible to insist on one man pledging himself, with no limit, for the default of a neighbour about whom, perhaps, he knows practically nothing.

The soundness of liability limited by guarantee has in the case of agricultural credit societies, working under conditions especially favourable thereto, been established in Germany, where ~~the~~ the advantages of the dual system have been greatly appreciated; and a like alternative might be beneficial to the movement here.

A NATIONAL PROBLEM.

In one respect the position may be considered to have been rendered worse rather than better by recent changes in land tenure.

In former days the losses due to bad weather or deficient harvest fell to a material extent on the landlords, who met the situation by granting reductions of rent, or otherwise giving practical assistance to their distressed tenants, helping, in the aggregate, thousands of such tenants to keep going until better times came round again.

To-day the whole tendency is in the direction of abolishing the individual landlord, and substituting for him either a County Council or peasant proprietary. With the political or other advantages claimed for either or both of these systems we have here no concern; but each of them offers considerations which have a direct bearing on the question of agricultural credit.

As a public body, a County Council cannot be expected to be so sympathetic towards its small-holding tenants as the landlord whose place it is taking. Dealing as it does with public money, it has to consider that any special concessions granted to these tenants might have to be made good by the general body of the ratepayers, so that

due payment of rent must needs be demanded, as long as the land is occupied, whatever the position of the occupier.

Nor is the peasant proprietor necessarily in a more favourable position. Should there still be a mortgage or other financial obligation on his land (and this would be the case in the vast majority of instances) he might find the payment of interest even more exacting than the payment of rent, while even if he did escape foreclosure, he would still have to find, as best he could, the money he required, not alone for cultivation and for buildings, etc., but also for repairing the ravages on his own land of such floods as those of the autumn of 1912.

So far as regards the granting of State assistance to British agriculturists in a time of great emergency, that is a question which public opinion and the Government may be left to decide. The function of a society is, rather, (1) to advise, on the basis of expert knowledge, as to the best means by which the aid could be applied; and (2) help, through its own organisation, in a resort to such means.

"A loan from the State, repayable in easy instalments, would," it was said in a leading article published in *The Standard* of September 3rd, 1912, "often enable the farmer not, indeed, to recover what is already lost, but to save himself from some portion of the further losses which threaten to overwhelm him." Granted the irresistible force of this argument, there still remains the practical question, How would the loan from the State reach the farmer? What machinery would pass it on from the one to the other, and afterwards collect the instalments by which it would be repaid?

It is on these important matters of detail that the Agricultural Organisation Society should be in a position both to advise and to act.

The advice it would give to the Government would probably be, "Don't create a new State department to have direct financial dealings with farmers or small holders,

Support, rather, by grants or by Government guarantee, a Central Agricultural Bank which would finance provincial federations of local co-operative credit societies themselves having direct dealings with the persons to be aided, distributing the loans and collecting the repayments without the trouble, cost and complications that would arise if the State did the work itself."

As regards definite action, the Society could point to the existence of a Central Co-operative Agricultural Bank and its affiliated societies as already constituting the foundations on which a national scheme could be built up to meet, not only an actual national emergency of to-day, but the inevitable requirements of agriculturists, and especially of small holders, in the future.

L.—CO-OPERATIVE LAND RENTING.

Desirous of establishing the principle of co-operation in the initial process of acquiring and holding land, as well as in the subsequent process of cultivating and developing it, the A. O. S. aimed almost from the outset of its activities at promoting a system of co-operative land renting. Certain difficulties arose, however, in regard to the interpretation of section 4 (3) of the Small Holdings Act of 1892, which was to the following effect :—" The County Council shall have power to sell, or, in the case of small holdings which may be let, to let one or more small holdings to a number of persons working on a co-operative system, provided such system be approved by the County Council." The question arose as to whether the power thus conferred on a County Council did not relate exclusively to the selling or the letting of land direct to persons actually engaged in the cultivation of the land, and whether, in this case, a County Council could make its arrangements with a co-operative society which would sub-let to the individual cultivators.

Doubt on this point was set at rest, however, by the Small Holdings Act of 1907, which provides that, in addition to the power granted under the earlier Act, " a County Council shall have power . . . to let one or more holdings to any

association formed for the purposes of creating or promoting the creation of small holdings, and so constituted that the division of profits amongst the members is prohibited or restricted." The Act further authorises County Councils to promote the formation or extension of societies, on a co-operative basis, having for their object, or one of their objects, "the provision or the profitable working of small holdings or allotments."

ADVANTAGES.

It was confidently hoped and anticipated that considerable use would be made of these powers, which had so much in their favour from the point of view both of the County Councils and of the small holders.

The prospective advantages to the County Councils were:—(1) that the work of a Council in providing small holdings would be greatly facilitated through the formation of Co-operative Land Renting Societies, since the Council would then deal, in any district, with a single body instead of with a large number of individual holders; (2) that the Council would receive the rents in one lump sum from such single body, which itself would collect the rents from the tenants and would be in a better position to undertake the task than the officials of a local governing body; (3) that provided the society had an adequate amount of uncalled share capital, full security for payment of the sum total of the rent would be given, since the failure of any member to pay his own rent would not relieve the society from its responsibility for the whole amount due, while the society itself would have the means of meeting all claims; (4) that the Council would be spared responsibility in supervision and control; and (5) that the members of a local society would be better able than a County Council to judge of the suitability and capacity of applicants for land, and would have a direct interest in seeing that their fellow members cultivated their land properly.

For the small holders themselves the advantages expected were:—(1) That they might be in a position to obtain land

more readily and at lower rents through a co-operative society than if they were left to their own resources as individuals ; (2) that, owing to their mutual liability, they would have a joint interest in looking after one another and helping one another in case of need ; (3) that a society of small holders would be able to make, and enforce, more stringent tenancy regulations than a County Council could do in the case of a large number of individual holders ; (4) that, once joined together co-operatively, for the purpose of land renting, the small holders might be expected to develop other forms of co-operative action in the way of purchase of necessities, transport, sale, credit, insurance, etc. ; and (5) that in these various ways the prospect of the small holders being able to work their holdings with benefit to themselves would be greatly increased.

These advantages for the small holders had already been clearly proved by such examples, for instance, as that of "The Aylestone Allotments" (fully described in Chapter XXI. of "The Transition in Agriculture"), this being a case in which a group of men employed in the boot and shoe and hosiery trades of Leicester formed a co-operative society in order to rent from a private owner, and sub-divide among their members, a plot of land under conditions that were far more favourable both to themselves and to proper cultivation than if the men had been left to act individually instead of collectively.

It was no less found that there were great social advantages in the system of co-operative land renting, since it helped to establish comradeship, to create a community of interests and to spread a spirit of mutual helpfulness among those who thus joined together co-operatively, the general tone of the group concerned being distinctly raised.

ATTITUDE OF COUNTY COUNCILS.

In October, 1907, the A. O. S. addressed a circular letter to the County Councils of England and Wales calling attention to the provisions of the new Act, suggesting that

steps should be taken by the Councils to bring about the organisation of co-operative societies having power to acquire land and to sub-let it, and offering to provide model rules for such small holdings societies, to send organisers to explain how the societies should be formed, and to give subsequent guidance, when needed.

Among the would-be small holders themselves there was an evident belief that action would be taken by the County Councils along the lines indicated. From many parts of the country applications were made for assistance in the formation of Co-operative Land Renting Societies for the making of collective application for small holdings or allotments, and 80 of such societies were formed within nine months of the passing of the Act.

Cordial support of the action thus taken was given by the Small Holdings Commissioners of the Board of Agriculture who, in their annual report for 1910, said :—

The provision in the Act empowering councils to let land to associations formed for the purpose of creating or promoting the creation of small holdings, and so constituted that the division of profits amongst the members of the association is prohibited or restricted, has proved one of the most satisfactory and practical methods of establishing small holdings, and we are strongly of opinion that Councils would be well advised to encourage such associations as much as possible, provided they are properly constituted and are financially sound.

The Commissioners were further able to report that since the Act came into operation, 4,135 acres had been let to 30 associations by 15 County Councils in England and Wales, and three Councils of county boroughs, and this land had been sub-let by the associations to 553 tenants. In his report for 1911 the Chief Commissioner states that 4,597 acres had then been let by County Councils to 39 Co-operative Small Holdings Associations, which had sublet the land to 732 of their members.

While, however, some of the County Councils have been thoroughly sympathetic, have made concessions in the cost of management, and have encouraged the Land Renting

Societies as far as lay in their power, others have shown themselves averse to the principle of co-operative action, and are reluctant to offer any encouragement whatever to the newly-formed societies. As it happens, too, although the County Councils are under an obligation to act in the case of individuals who require land—the Board of Agriculture having authority to call upon them to produce a scheme should they refrain from so doing—there is no similar obligation on the Councils to provide land for Co-operative Land Renting Societies, the power given in respect to the latter being merely permissive, and not compulsory.

DISCOURAGEMENTS AND SUCCESSES.

As the result of this unwillingness on the part of County Councils to take any action at all, and of the tedious delays due to the prolonged negotiations of others, a number of the Land Renting Societies lost heart, and either languished and died, or else survive to-day in a more or less moribund condition, but still hoping for land.

Notwithstanding these discouragements, many of the societies have secured land for their members in circumstances under which land might otherwise have been unattainable by them, and they have followed up co-operation for land renting by combination for a variety of other purposes besides.

COUNTY COUNCIL POLICY.

That there is scope for a considerable expansion in co-operative land renting through County Councils will have been gathered from what has already been said, and there is, too, a prospect of further action being taken in the matter.

At a meeting of the Public Health, Housing, and Small Holdings Committee of the County Councils Association, held on April 24th, 1912, the following memorandum on the subject of County Councils and Co-operative Small

Holdings Societies was presented by Mr. Christopher Turner :—

The question of letting land to Co-operative Societies of Small Holders has not received the attention it merits, largely owing to the fact that the advantages of dealing with such societies do not seem to be fully realised by the majority of County Councils. "

These advantages, from the County Council point of view, may be summed up as follows :—

1. In the case of any Co-operative Society renting land from a local authority, when the rent is not guaranteed by reliable persons outside the Society, the members are bound to hold share capital in the Society equivalent to three years' rent of the land they occupy, or to pay six months' rent in advance and hold share capital equal to two years' rent. The amount paid up on each share is usually small, leaving a heavy uncalled liability hanging over each member. The Society is managed by a Committee elected by the members, and this uncalled liability is the guarantee for the careful management of the Society.

2. The selection of tenants by the Committee of a Society whose members, one and all, stand to lose financially if unsatisfactory tenants are admitted is bound to be conducted on careful lines. No Committee of a local authority can possibly be placed in so good a position to decide on the merits of prospective tenants as the members of a society consisting of the applicant's neighbours, who are working side by side with him year in and year out.

3. The focussing of the demand for land in a locality to one application from a Co-operative Society is of assistance to the Council in the acquisition of land. The Committee of the Society, from its local knowledge, can give valuable assistance in suggesting suitable land to be acquired.

4. A Society is responsible to the County Council as a whole for rent. If any tenant is in arrears the shortage must be made good from the funds of the Society, even if a further call on the share capital is necessary. The County Council is thus relieved of all trouble in the collection of rent and also of the onus of applying pressure to tardy individuals.

5. The Committee of a Co-operative Society is responsible for the management of the holdings, and thus relieves the County Council of the work of supervision and management.

6. The Committee of a Society has to find new tenants to replace any who, from one cause or another, should give up their holdings.

7. The Co-operative Society could undoubtedly in many cases provide minor equipment more cheaply than can the County Council.

8. Once having placed the small holders on the land, it is to

the advantage of the Council, in the interests of the ratepayer, that they should succeed. If working through a Co-operative Society the chances of success are greater. Savings can be effected by purchases in bulk, by the holding of agricultural machines or teams of horses in common, by combination for marketing of produce, thereby saving in railway rates and obtaining better prices.

'9. Most Councils employ agricultural experts to assist small holders and others on the technical side of their careers: the Co-operative Society forms an excellent nucleus for arranging meetings and visits from technical instructors.

The chief advantages to the small holders are: that they are assured the greatest possible degree of independence; that the principles of mutual aid are fostered; that in many cases they would be able to furnish themselves with minor equipments more cheaply than if these equipments were provided by the County Council; that their rental would be somewhat lower, and even where the margin charged to the individual members of the Society comes out at a considerable increase in the term of rent per acre, still they have the satisfaction of knowing that any profit the Society earns will be divided up amongst the members.

From the point of view of the general development of small holdings Co-operative Land Renting Societies should be encouraged because they only take land on the colony system, which has great advantages over the system at present in vogue of satisfying individuals with separate holdings scattered throughout a large district, a system which raises the cost of estate management to a maximum.

After considering this memorandum, the Committee resolved—

(a) That the Executive Council be recommended to print the memorandum in the "Official Circular."

(b) That the sum charged by County Councils to Co-operative Societies for management expenses be at a much lower rate than in the case of unassociated small holders.

(c) That County Councils might favourably consider the question of granting longer leases to Co-operative Societies than to individual small holders.

In respect to the recommendation concerning a reduction in the amount charged to Co-operative Land Renting Societies for management expenses, it might be pointed out that unless some concession is made to the societies by the County Councils, in consideration of the trouble and expense they will be saved through dealing with a single body instead

of with many individual tenants, there is the possibility that the rents charged to the members of the co-operative society would be higher than those charged to individual tenants, by reason of the margin which must needs be left for covering the society's working expenses. The saving to the County Councils being considerable, there ought to be an equivalent allowance made in their management charges.

The question of longer leases is regarded as of the utmost importance in view of the decision of the Local Government Board that the period of repayment for loans advanced for the expenses of adaptation of small holdings cannot be for a longer period than the term of the lease.

The fact that the Executive Council did print the memorandum in their "Official Circular" suggests that the views expressed were regarded by that body as being at least deserving of serious consideration by County Councils in general.

CENTRAL LAND RENTING SOCIETIES.

In some cases it has been sought to meet the difficulty experienced by groups of would-be small holders in obtaining land—owing to the County Council not being satisfied with the guarantee offered—by the formation of a Central Land Renting Society for a section of the county, the idea being that the Central Society should acquire the land from the County Council, on offering an adequate security, and re-let to the individual applicants.

LAND SOCIETIES AND LAND OWNERS.

The majority of the Land Renting Societies which have succeeded in getting land at all have obtained it through the County Councils, but many have treated direct with land-owners, who, in turn, have their advantages in dealing with a group of occupiers acting as a single body instead of with the same number of persons acting individually.

The Mansfield Woodhouse (Notts) Small Holdings Society has gone still further than land renting, having bought from the Duke of Portland 40 acres of land for division among

eight of its members, each of whom gets five acres and a house, the payments to extend over a period of 35 years. The members in question are at present mostly engaged in mining, and their idea is to cultivate their holdings—with assistance—in their leisure time, raising potatoes, barley, oats, parsnips and market garden produce generally, together with poultry and pigs, for sale among the Duke's tenants, and eventually depending altogether on their holdings for a livelihood.

PROGRESS AND PROSPECTS.

The slowness of the progress thus far made by the Land Renting Societies of small holders is to be accounted for in many instances by the delay in procuring land; but even after land has been acquired there may be a difficulty in finding a suitable person to act as secretary or manager. The class of men from whom small holders are mainly drawn have generally had little business training, and are unaccustomed to accounts. Then they mostly have to work long hours in order to earn their own living, and the amount of time they can devote to secretarial or managerial duties, performed either voluntarily or in return for a very slight honorarium, is very limited.

In districts where Branches of the A. O. S. have been organised, under the devolution scheme already mentioned, the difficulties here in question have been overcome to a certain extent, the secretary of the Branch being able to give to the secretaries of the small holders' societies advice and personal assistance in regard to business methods, the keeping of accounts, etc., and saving them the previous necessity of dealing by means of correspondence with difficult questions. The presence of an expert "on the spot" should make a great difference in the spreading and successful working of the local societies, and it may, therefore, be expected that this phase of the movement will undergo still further expansion.

On the trading side the advantages to be gained by co-operative purchase have not yet been fully brought home to

the members of the small holders' societies owing to the comparatively slight extent of their business hitherto ; but more is likely to be done in these directions as the small societies are linked up with the large trading societies in their own neighbourhood.

M.—CO-OPERATIVE INSURANCE.

Many inquiries having reached the Agricultural Organisation Society as to whether or not it would be likely to undertake insurance of agricultural risks, on co-operative principles, the subject was taken into consideration early in 1906, and a scheme for the formation of a Co-operative Insurance Society was drawn up by Mr. W. M. Tod, then chief organiser, and referred alike to a sub-committee and to an actuary. The latter said in his report :—" I regard the suggested society as likely to be of very great value to the members . . . I feel confident that the scheme is a sound one and may be safely undertaken." The objects of the society were to be to insure its members against loss of their property by fire, liability under the Workmen's Compensation Act, and loss of live stock by death, and to take up any other class of insurance that might be thought expedient ; though it was proposed to proceed in the first instance in regard to fire insurance only.

The sub-committee's recommendation was that the A. O. S. should not itself promote the formation of a co-operative insurance society, but that, if the affiliated societies themselves wished to start one on the lines of Mr. Tod's proposals, the A. O. S. should let it be understood the scheme had its approval. The sub-committee also recommended that in any scheme undertaken the services of a certain number of gentlemen well versed in insurance business should be secured, as it could not be expected that the members of agricultural societies would, as a rule, possess the requisite technical knowledge.

Through suggestions made to the Post Office Committee on Employers' Liability Insurance, before which Mr. W.

Fitzherbert-Brockholes, a member of the A. O. S. Executive Committee, gave evidence, and to which Mr. Tod submitted a memorandum, the Hon. R. D. Denman, Secretary to the Postmaster-General and a director of the Marine and General Mutual Life Insurance Society, became interested in the matter, and was instrumental in obtaining the support of the Hon. A. L. Stanley, M.P., Mr. C. A. Montague Barlow, LL.D., L.C.C., Barrister-at-law, and Mr. K. G. R. Vaizey, chairman of Bevington, Vaizey and Foster, Ltd., insurance brokers. With the assistance of these gentlemen the scheme was reconsidered and somewhat modified. Co-operative and other agricultural societies which had expressed interest in insurance were invited to send representatives to a meeting held in London on December 11th, 1907, and a considerable number did so. At this meeting a resolution was passed authorising the formation of the proposed society, and a provisional committee was appointed to carry it into effect. The society was subsequently registered as "The Agricultural and General Co-operative Insurance Society, Ltd." and was also affiliated to the A. O. S. Mr. Yerburch is the trustee for the bondholders, the chairman is the Hon. R. D. Denman, M.P., the deputy chairman Mr. C. A. Montague Barlow, M.P., and Mr. J. A. Eggar, Mr. Rupert Ellis, Mr. W. Fitzherbert-Brockholes, Mr. W. H. T. Hearle, Mr. J. W. Hill, Mr. G. M. Maryon-Wilson, Mr. A. E. B. Soulbey, the Hon. A. L. Stanley, and Mr. K. G. R. Vaizey are directors, with Mr. K. W. Hopkinson as manager.

The principal business transacted by the society is fire and fidelity insurance. The value of the property in respect to which policies had been taken out in 1911 was over £1,500,000. Live stock insurance is also arranged in conjunction with approved agricultural associations and societies. As agent the society is in a position to effect all kinds of insurances which it does not undertake itself, and specially reduced terms have been secured for members' employers' liability risks. Under a re-insurance contract entered into by directors on profitable terms the total liability on any one loss is strictly

limited, and the society can thus issue policies for any amount.

By doing business through the society, policy holders secure the profits on their own insurance, while the local societies which act as agents receive the same commission, at the normal figure of 15 per cent., which the ordinary insurance company pays to its individual agents, the said local societies being free to dispose of this 15 per cent. by paying part back to the members who take out policies, by applying it to their general management expenses, or otherwise disposing of it as they think fit. At least one of these local societies receives in commission nearly £250 a year. The total amount paid out by the society as commission in 1911 was £475. The net premiums rose in 1911 to £3,000, an increase of nearly 40 per cent. on the previous year. The losses were somewhat less, and the society was left with a credit balance of £2,133. The bonus for the year was 25 per cent., *plus* an extra 10 per cent. credited to the personal reserve account of each member entitled to bonus. In January, 1912, the funds invested, in hand or at call available to meet claims on policies, amounted to over £30,000.

LIVE STOCK INSURANCE.

Co-operative insurance of live stock is a subject to which the attention of the Agricultural Organisation Society was first called in 1903, and various plans were then projected. Little, however, has been actually done by the Society in this direction. It was known that a number of co-operative cow insurance societies, cow clubs and pig clubs, conducted on mutual principles, were already in existence, but there was a lack of definite information concerning them, and it is only recently that details have become available, mainly through the researches of Sir James Wilson, of the Board of Agriculture. The results of the enquiries made were given in articles published in the *Journal of the Board of Agriculture* for May and June, 1912, and from these articles the following facts have been taken.

COW INSURANCE.

Of co-operative societies in England and Wales dealing exclusively with the insurance of cows and calves there are two kinds—those registered under the Friendly Societies Acts and those that are unregistered and are generally known as “cow clubs.” Of the former there were twenty-two on December 31st, 1910. The number of the latter is known to be considerable, but statistics in regard to them have not yet been collected.

In 1910 the 22 registered societies had 1,613 members who had insured 4,588 cows and calves, and the total sum realised in premiums and levies for the insurance fund during the year was £929, an average premium of 4s. 0½d. per animal. Other items increased the total income to £1,132. Sixteen societies, insuring 4,017 animals, returned their cost of management as £95, an average of less than 6d. per animal. For the twenty-two societies the surplus of assets over liabilities (other than insurance liabilities) was, at the end of the year, £4,812, as compared with £4,975, the gross amount at the credit of the insurance fund. This £4,812 represents “a true surplus accumulated during past years owing to the expenditure being less than the income.” It not only brings in a considerable sum in interest, but secures the members against the risk of having to make special levies on themselves to meet losses in excess of the available funds.

The members of the societies are mostly small holders and cottagers. The work of each society is carried on by two or three trustees, a committee of management, one or more stewards, a secretary, and a treasurer, all elected at the annual general meeting. Most of the societies have an elaborate system of fines for the maintenance of discipline.

Of the 22 societies 10 have been in existence for over 50 years. One, at Mawdesley, Lancashire, was established in 1807. It still insures 52 cows at a premium of 6s. a year, pays £10 on each cow that dies from disease or accident, and has a reserve fund of £46, enough to pay four years' probable

average losses. "To judge from the experience of these societies," says the writer of the article concerning them, "it is possible for a community of small holders and cottagers, in any part of the country which is not exceptionally unhealthy for cattle, to form a co-operative mutual insurance society, and insure each other from loss of their cows by disease or accident up to a value of £10 per cow, on payment of charges amounting in all to less than 5s. per cow per annum."

It is further pointed out that insurance companies which deal in live stock insurance would charge a premium of 15s. per annum, and this would not cover death from fire or lightning. One reason for the difference is that the large company must set aside about 40 per cent. of its premium income to pay for commission, agency fees, veterinary expenses, clerical and expert staff, interest on capital, depreciation of buildings and profits to shareholders; but there is the further reason that whereas, on an average, 6 per cent. of the dairy cows insured with companies die every year, the losses among cows insured in village clubs average only a little over 2 per cent. per annum, mainly owing to the small holder's cow being generally so well looked after. "The truth seems to be," the writer of the article adds, "that no company can be run so cheaply as a village cow club, managed by themselves on neighbourly lines; and that there are few animals in the world so well protected from disease and accident as the British cottager's cow."

PIG CLUBS.

Pig clubs are also of both the registered and the unregistered type. The former number only 33, whereas there are known to be over 1,000 pig clubs altogether in England and Wales. The great majority maintain themselves simply as "private associations of private individuals, without any legal standing or outside help." In 1905 it was ascertained that pig clubs were to be found in 26 counties. Lincolnshire had the largest number, namely, 309; Northamptonshire had 114 and Wiltshire 112.

Detailed statistics are available in respect only to 31 out of the 33 registered. Of these 31 clubs, 16 are in Lincolnshire and five in Gloucestershire. The remainder are in seven different counties. One of the clubs, the Langworth, Lincolnshire, dates from 1859, and there are eight others which have been at work for over 40 years. At the end of 1910 the 31 clubs had 1,598 members, an average of 52 members, and insured altogether 3,118 pigs, an average of 101 pigs per club and of two pigs per member. The net result of the working for the year was that the members, by making payments amounting in all to an average of 2s. 4d. per pig insured, obtained payment of compensation averaging £2 10s., and in some cases amounting to £5 or over, in respect to each pig that died from disease or accident during the year; though some of the societies have, by good management and the building up of a substantial reserve fund, attained a much more satisfactory position. Two clubs, one at Kemerton (Gloucestershire) and the other at Bredon (Worcestershire) have such large reserve funds that their members of four years' standing now pay only 8d. a year each, in return for which nominal subscription they are guaranteed payment of the full value of any pigs that may die from disease or accident. Contrasting the operation of the pig clubs with that of ordinary large insurance companies which deal with the insurance of live stock, the writer of the article from which these facts are taken says:—

If, instead of insuring co-operatively, the members were to insure their pigs individually with one of these companies for a sum which might in any case amount to £5, they would have to pay a premium of at least 5s. a year, which would not cover so many risks as are now covered by their average payments of 2s. 4d. per annum. It seems safe to say that no insurance company would, for less than 8s. per pig, per annum, undertake the risks successfully undertaken by the Kemerton and Bredon clubs at a cost to old members of 8d. a year. Such are the wonderful results of co-operation and care and fair dealing among neighbours.

Many of the societies, it is further stated, consist largely of working men, who insure only one pig each.

Such a man generally buys a young pig about ten weeks old in early spring, fattens it through the summer, and kills it in winter for consumption by himself and family. The pig originally costs him from 10s. to £1, and its value gradually increases as it grows fatter, until at the time of slaughtering it may be worth £5 or more; and it is a great advantage to him to feel that if his pig should die from disease or accident he will get its full value at the time, or a large proportion of it, from his pig club. The low death-rate amongst pigs of this class is no doubt chiefly due to the fact that each pig is usually kept in a solitary sty, away from infection, under the eye of the owner and his wife, and is slaughtered while still in its lusty youth.

The article concludes by affirming that—

According to the experience of these thirty-one societies in different counties of England and Wales, it is possible for small holders and labourers in any healthy part of the country, by co-operation and mutual trust, to insure themselves against the loss of their pigs from disease or accident by a total payment of something like 2s. 6d. a year, which can be much reduced when the club has built up a substantial reserve fund.

It is a matter of great interest to find that these somewhat primitive cow and pig insurance societies or clubs, operating on strictly co-operative lines, have not only already been carried on so long, but have been the result of a spontaneous movement among village dwellers who, having a common need, and acting in complete accordance with "mutual help" principles, have brought into existence an excellent organisation, managing it, also, without any extraneous assistance, and operating so much among themselves that much trouble appears to have been involved in ascertaining what they are really doing in their unpretending but thoroughly practical way.

The whole subject is of the more importance at the present moment because, with the settlement on the land of a greater number of small holders, insurance of the live stock on which they may partly depend for the success of their efforts may be a matter of material concern. Village societies and clubs clearly offer to them advantages over insurance with large commercial undertakings, although it is no less obvious that they are suitable for villages only.

It is suggested that the matter should be carefully watched

by the new Board of Governors of the A. O. S., not with any idea of competing with the established societies and clubs, but with the view of framing for them a set of model rules, based on their collective experience, and likely both to improve the stability of those that already exist and to encourage the starting of a still greater number of them, since there are many parts of the country where these village organisations are at present wholly unknown.

N.—RURAL TELEPHONES.

Another important matter which has received attention is that of increased use of the telephone in rural districts.

In almost innumerable ways greater use of the telephone in those districts should be of value. It would, among other things, facilitate the work of organisation, the obtaining of agricultural necessities, and the collection or distribution of produce ; it would be a ready means of obtaining information as to prices and prospects of sale on various markets ; it would enable farmers to communicate direct with local railway stations, traders in neighbouring towns, the central headquarters of their society, the doctor, the veterinary surgeon, and so on ; while in addition to the services it would render in business matters the telephone would play a no less useful part in promoting the social life of rural districts.

The Post Office authorities have for some time past been considering how far they are in a position to give facilities to residents in country districts for availing themselves of the telephone, and since the transfer of the National Telephone system to the Post Office the final arrangements have been made with regard to the conditions under which telephones can be provided in country districts which are not too far remote from an existing exchange. The Postmaster-General is especially anxious that co-operative societies and local agricultural associations shall be given every opportunity to obtain the benefits which can be derived by them from their being able to make use of the telephone at a low annual cost.

In a circular issued by the Postmaster-General it is stated that—

In the United States there are to-day more telephones in use by farmers than the whole number in use by the commercial and all other classes in the United Kingdom, and these telephones are found to add to the profits and comforts of the farmers to an extent which makes the cost of telephones seem negligible. •

So great in fact is the appreciation of the telephone by American farmers that, as already mentioned on page 31, societies of agriculturists are formed in the United States for the express purpose of providing telephonic systems of their own on co-operative lines.

Here, of course, such independent action would be impracticable; but the scheme which has now been put forward by the Post Office should be of very great service indeed to British agriculturists, provided only that the rural districts are willing to extend to it a sufficient measure of support.

The scheme is one for the experimental establishment of a system of "rural party-lines," to be used in common by a number of subscribers, with a minimum total of three subscribers per line, and an average of two or three subscribers per mile in proportion to the length of the lines from exchange. "Such lines," the Postmaster-General explains, "cannot be used for communication with very distant places, but they are sufficient for communication with places within a radius of 100 or 150 miles, and this is all that is usually required for the purposes of rural and agricultural business. As they are used in common by the subscribers, complete secrecy cannot be guaranteed. The conversation of one subscriber is liable to be overheard by the others, and this is to some extent a disadvantage. Experience both in this country and in the United States has, however, shown that this disadvantage is slight in comparison with the great advantages which otherwise arise from the possibility of telephonic communication with all the other telephone users in adjacent towns and villages." Although, too, the rural party-line subscribers would not have so good a service

—in regard to individual use and long-distance facilities—as exclusive-line subscribers, they would pay on a substantially lower scale, and one that, according to the Postmaster-General, will barely suffice to cover outlay and working expenses.

The secretary of the A. O. S. has communicated with the affiliated trading and other societies, calling attention to the action which has been taken in this matter, pointing to the benefits that would follow from the formation in rural districts of groups of farmers to take advantage of the offer made by the Postmaster-General, and enclosing copies of the ~~Post Office~~ memorandum and circulars giving full details of the scheme.

Party-lines are being constructed in a number of districts, while negotiations for their installation are well advanced in many other places. It has been further intimated that the district telephone managers of the G.P.O. are to be officially instructed to give all the assistance in their power to societies wishing to take advantage of the scheme, and that the local representatives of the Post Office will, as far as possible, arrange to attend meetings both of the Branch Committees and of affiliated societies at which the question is to be discussed.

CHAPTER VIII

SUMMARY AND CONCLUSION

THE facts here narrated will, it may be hoped, have sufficed to prove the following fundamental propositions :—

The *need* for agricultural organisation was originally brought about by a combination of causes, including (1) the greater application of science to production ; (2) the consequent growth of commercial industries for the provision of fertilisers, concentrated feeding stuffs, machinery, etc., which, if the farmer is to produce his crops economically, he should be able to obtain, at the lowest price and of the best quality, without having to pay too much for intermediate profits ; (3) the greater influx of food supplies from abroad following on (a) the development of virgin soils in new countries, (b) the increased facilities for ocean transport, and (c) the application of refrigeration to the carriage of perishable commodities ; (4) the effect of the telegraph on commercial relations with distant lands ; and (5) the whole tendency of to-day for business matters of every kind, including therein the business of agriculture, to get more and more into the hands of powerful combinations against which the isolated producer, and more especially the isolated farmer, cannot hope to protect adequately his own particular interests.

The chief *aim* of the agricultural organisation now being resorted to by civilised countries large and small throughout the world is to meet these conditions by the formation of societies operating mainly on the co-operative principle for (1) purchase of agricultural requisites ; (2) provision of greater credit facilities for the cultivator ; (3) the application to various forms of agricultural production of that “ factory ” principle which has done so much to expand

urban industries ; (4) the ensuring of an effective distribution of agricultural produce on the basis of scientific marketing ; (5) utilisation of surplus supplies in times of over-production, thus avoiding either waste or an undue fall in prices through gluts on the market ; (6) reduction of the cost of rail or road transport by means of combination ; (7) improvement of live stock ; (8) co-operative tenancy of land ; (9) insurance, and, in fact, for every purpose connected with agriculture in regard to which combined action may be of advantage.

The *right* of the agriculturist to resort to organisation on these lines cannot reasonably be disputed since, although his doing so may, to a certain extent, appear to prejudice the interests of middlemen now thriving on his past neglect of his own interests, it has to be remembered (1) that the farmer, as a *manufacturer* of agricultural produce (for such he may claim to be), is, under the recognised customs of the commercial world, entitled to have direct dealings with manufacturers of the raw materials, the implements, and the machinery of his industry without being compelled to purchase through agents, dealers or local shopkeepers in the same way as a suburban resident growing vegetables in his own garden for domestic consumption might be expected to do ; (2) that by the formation of agricultural co-operative societies which group the requirements of their members, orders can be given on a scale well justifying direct dealings ; (3) that if agriculture, still the greatest of our national industries, is really to flourish, there must, whatever other remedies are adopted, be a reduction in those intermediate commercial profits which, on the one hand, increase unduly the cost of production, and, on the other hand, make too great a difference between what the producer receives and what the consumer pays ; and (4) that in close alliance with this question of the farmer's profits are many other matters including those of no less material concern than the wages and the housing of the agricultural labourer (who also stands to benefit if the business of agriculture can be made a more remunerative

one), and the offering of greater inducements for settling more people on the land under the scheme for the extension of small holdings.

The *wisdom* of the principles and practice of agricultural organisation, as adopted and now being actively promoted by the central propagandist societies of England and Wales, of Scotland and of Ireland respectively, is no less beyond all reasonable doubt since we have abundant evidence of the fact that the movement in each country is proceeding along thoroughly practical lines, has already accomplished good results, and has laid solid foundations for still greater efforts in the future.

Nor can it be denied that the movement in each country is well deserving of State recognition and State aid since what is being done is a national work from which the nation, through the reorganisation of Agriculture on a sounder economic basis, has so much to hope.

Each of the three central bodies has undertaken what are essentially educational and propagandist functions. Not one of them is itself engaged in "trading for a profit," and, though the local societies they help to form—societies which themselves can have no State aid whatever—may so trade, and are enabled to do so the more successfully by reason of the guidance and direction they receive, they occupy, in this respect, a position analagous to that of individuals whom the State, through its general and its higher education system, renders better qualified to fight the battle of life—or, in other words, to "trade" their abilities and their powers "for a profit"—to their own as well as to the common advantage.

There is, indeed, great need for a still closer relationship between agricultural education and agricultural economics. Training in the actual science of agriculture is beyond the functions of Organisation Societies, and must needs be left to Colleges and institutions able to apply themselves especially thereto; yet one may hope that the day is not far distant when such Colleges will have, not alone their Professors of Agriculture, but, also, their Professors of

Agricultural Co-operation, who would constitute a connecting link between the Science of Production and the Science of Distribution, and place Colleges and Organisation Societies in closer touch one with another, on the lines more or less of the Training College for Co-operation set up by the Halle-Wittenberg School of Economics, in Germany (the object of which is "to supply scientific training for those acquiring a theoretic or practical knowledge of co-operation, especially for persons seeking to qualify themselves for the post of director or as an official in a co-operative society,"), of the Berlin Agricultural High School, where lectures on Co-operation in Rural Districts are given, and of other colleges or high schools in different parts of Germany, which now include co-operation in its various forms among their subjects for special teaching or practical demonstration.

In addition to all these questions of agricultural economics there is, also, that problem of the Revival of Country Life which, propounded by Sir Horace Plunkett in Ireland, and applied, in turn, to the United States by Mr. Roosevelt, is of no less direct concern to those rural districts of Great Britain which are experiencing a steady exodus of population either to the towns or to other countries.

Thus the subject of Agricultural Organisation, in its many different phases, may be commended to the attention of the British Public as a National Question well deserving of their serious and most sympathetic attention, while they will see that, although Great Britain has hitherto been behind certain of the other countries in taking this all-important work in hand, the right lines have now been adopted, the difficulties of the pioneering stage have been surmounted, and a happy combination of voluntary effort and State aid, each supplementing the policy and the possibilities of the other, should ensure in the immediate future a greatly accelerated rate of progress, to the advantage alike of agriculture, of agriculturists and of the national well-being as a whole.

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