PART I

INTRODUCTION

- In this Report we set out the results of a comprehensive study we have made of land use in the Highlands and Islands. our consideration of Highland problems we have in recent years found ourselves, as an Advisory Panel, increasingly faced with queetions of land use. Land is the basic resource of the Highlands and Islands and the vital part which its exploitation must play in the development of the Highland economy is celf-evident, but nowhere did we have a comprehensive assessment of the existing position and of the possibilities for development. We therefore decided in March 1962 to undertake a special study of the subject. The investigation has been undertaken mainly through our Agriculture and Forestry Group. In setting ourselves our remit we had regard to the present use and the extent to which the existing machinery fell short of achieving the best use of land in the Highlands and what practical methode could be adopted to overcome this. At the same time we were anxious that the study should not exclude the consideration of fundamental We consider the report we now make to be as significant and far-reaching in its implications for Highland development as anything we have previously done, and we commend it for study and action eccordingly.
- 2. We have tried throughout to be realistic and practical while also suggesting general views on the background and underlying difficulties of the Highlande and Islands. A massive amount of information and knowledge on the Highlande is available in reports, surveys, etc. We need a new and critical appraisal. Rapid changes are taking place in ecientific techniques, in administrative arrangements and in the social patterne. Even the Highlands change. Because of its history and its different culture and tradition this part of Scotland evokee strong emotional reactions. To come the Highlande and the Highlandere are no more than a wild periphery ever depending on the benefits and bounty of the South and ever trailing behind in the advancing standard of living. To others again the mors glaring hardships of the clearances have left a guilty need for some kind of restitution. But it was the romantic picture of "Caledonia storn and wild, Meet nurse for a poetic child" that guided the tourists to the Highlands.

- 3. Our concern however has been to assess the value and the most effective use of the basic raw material of the Highlands: the lend. We as a Panel are a cross-section of people mainly living in and deeply interested in the Highlands but including persons with wide experience of conditions elsewhere.
- What have the Highlands to offer? Land: minerals: fish life (sea and river); natural wild animals for food and photography; landscapes of infinite variety and beauty; space for recreation and health: space if need be for the training of armed forces. brief a variety of material benefits and services for the country as a whole and for the world. But many of these assets are under-used and under-valued at the present time. Some of these products must he exported either as ray material or fully or partly processed. Examples are livestock, wood and forestry products, tweeds and whisky. These can have a market value put upon them fairly easily. There are also products of a rather different kind which can only be developed within the area such as recreational and tourist facilities and sport. We know the case for large scale production which often means processing enterprise outside the area where it is produced. But we feel that if industrialists really wish to process in the Nichland area they would be able to develop methods of small scale and yet economic production.

Administrative Machinery

- 5. There is one particular appect to which we should referover thirty powement deportment and other agencies are required
 to devote a substantial part of their time to dealing with the
 Highlands for economic and social purposes. We cannot believe that
 Highlands for economic and social purposes. We cannot believe that
 patential is to be assessed realistically and policies for further
 exclusions that the season of the
- 6. These are general thoughts. But our specific concern is to find practical awas of saintwing the best use of land in the Highl made. Many people are dissatisfied with the present control and direction of lend use, particularly, but not only, in the Highlands and Islands. Attention has been drawn to the continuing loss of good quality agriculture. More relevant to the Highlands

are the criticism of diversion of agricultural land to forestry, for sporting purposes, and the generally insafficient seems of controlling standards of farm busboardy, forestry and general actors management of the standard of the standar

Definition of Land Use

- 7. It is necessary at the outset to define the terms "good land use" and "poor land use". Land use can be regarded from many different points of view, ranging from the narrow economic test of profitable productive use to the broad but not always acceptable view in terms of the wall-being of people and regard for their traditional The answer must lie somewhere between these two extremes. Our study has been based on the premise that it is essential to arrest depopulation of viable Highland communities although we recognised that there must be some economic test for land use. We have taken the view that good land use is "the most affective and economic use of the land having regard to the agricultural, industrial and social possibilities and useds of the area in question". In this, regard should be had to the well-being of as many people as possible, present and future, not only those living in the area. have the absolute obligation to see that the fertility of the soil and the beauty of the countrysids is steadily improved for the benefit of the present and succeeding generations.
- 8. One of the difficult questions is the nature and size of the agricultural unit which is likely in Highland conditions to provs viable, so far as it is possible to assess this on the basis of current and future trends in agriculture generally. Farmers' incomes in the Highlands tend to be somewhat lower than elsewhers and looking to the future it would seem likely that the farm business which provides full time suployment for at least two workers (the farmer and one other, whether in his family or not) is likely to be necessary to give the average farmer on income of around £750 a year. or roughly the equivalent of the average earnings of an industrial Where the land or situation is suitable for intensiva enterprises such as pigs, poultry or horticulture, the acreage required for this size of business might be relatively small. in the traditional type of farm in the Highlands devoted primarily to stock rearing, a farm of 100 acres of crop and grass plus an area of hill ground is likely to be the minimum economic size.

9. This leads us to a further question. Do we approach the subject on the basis of agriculture as the natural use of land in the Highlands and Islands? If so our test in considering different land uses is the effect on agriculture of the other uses. This means that other uses such as forestry would have to justify themselves clearly and positively if they interfere with the existing agricultural use. This is the current approach. Forestry proposals have been regarded as an interference with agricultural use. This arises from the administrative set-up in the government's policy: the government decide a total forestry programme with the Forestry Commission as its main agent and the rest follows. The alternative to this approach is to deal with any question of land use as an entirely open issue leaving agriculture to justify itself along with other competitors. Though agricultural use of land in the Highlands can usually justify itself, we cannot agree that agriculture has any inherent and special right in the land. Land use in the Highlands must be tackled with an open mind. We have tried to do so.

10. There is no such thing as a real conflict of land uses. There are simply (a) the different categories of use and the problem of adequate control of changes from one sort of use to another, and (b) the standard of use within each category. Both aspects are important in the Highlands and Islands. Arrangements already exist for control of changes of use of land required for "urban" nurmoses. such as housing, industry and roads. Such uses usually involve very specialised requirements of location and site, and there are various statutory provisions for control either generally (e.g. through the County Development Plans) or in relation to the particular proposals. Though we have some comment to make about these aspects of land use later in the report, we have not included them in our detailed consideration. It is in the "natural uses" of land in the Highlands and Islands, in fact, that the main difficulties of control and improving standards of use arise.

These uses can be divided broadly into

Agricul ture

Forestry

Sport and Physical Recreation (including tourism) Industrial and "Urban" Uses

It is to these aspects of land use that we have mainly directed our attention, and the report discusses the problems under these main heads.

General Pattern of Land Use

11. Before proceeding to consider the land use implications of agriculture in the Highlands and Islands, we should set down come of the background facts. (a) General - The total area of the Highlands and Islands (the

seven Crofting Counties) extends to 8,992,800 acres, representing 47 per cent of the total surface area of Scotland. this area is mountain and rocky country of little economic use. except as providing recreational open spaces for tourists, etc.

(b) Agriculture - The total area in the Highlende and Islands used for agricultural and crofting purposes is as follows:-

Agricultural (4)	Total Crofting Counties	Non- Crofting	Crofting	Crofting as Percentage of Total
Number of Units	25, 173	8,764	18,409	65%
Crops and Grass	Acres 599,000	Acres 421,500	Acres 177,500	30%
Rough Grazings (11)	6,499,000	6,089,000	410,000	6%
Connon Grazings	1,225,500	-	1,225,500	100%
Total for Agricul- tural Purposes	8,323,500	6,510,500	1,813,000	225

- As at 4th June, 1963. Includes Deer Forest Land (whether grazed or not)
- situated within the farming unit. (iii) Includes an element of non-crofting land.
- (c) Forestry The forestry statistics are as follows:-

Forestry	Total	Forestr	Private Acres	
	Acres			
Land under trees at 30th September, 1963.	368,288	267,788	69≴	120,500

In addition the Forestry Commission have in hand some 68.500 acree acquired for planting but not yet planted. It is difficult to estimate the total area suitable for tree planting in

the Highlands and Islands, but on the basis of the rural development surveys already completed (which show 534,200 plantable acres out of a total of 3,567,300 acres surveyed) and other information, it would seem that around 1,000,000 acres could be reckned as suitable for planting.

(d) Sport - The other major user of land in the Highlands and Islands is sport (mainly deer stilling and other shootings). There is, of course, a good deal of overlapping use as between example, which included a deer commun, showed that in 1st deer forests extending to 2,233,505 seres, shout \$50,000 acres were estimated to be grazable for stock, and that 39,000 sheep and 3,000 cattle were being grased thereon. There are, moreover, precise figures are not waitable ob could carry treet, but

12. Biller satisfied details of agricultural, forestry and deer frorest land in the Highlands and Islands are set out in Appendices A, B and C. These figures, with all the problems striking from subplicated and competing uses, broadly indicated the nature and region of the control of the striking of the striking of the satisfied and Islands. In view of the consideration we give later to question that the Secretary of State owns 280,000 acres in the Highlands and Islands by way of Lind Settlement Estates (satisfy confiting), and 750,000 acres of Forestry lend (including 155,000 acres of Simila at Todicion of the Settlement Settlement Confiting), and probability of the Settlement Settlement Confitting the Settlement Se

Progress Review

13. We recognise the need to keep under review the progress in the direction and control of land use and we prossessed specifically that the whole question should be reviewed within five years. We also emphasize that the proposals for better land use which we make can only be a beginning if real solutions are to be found.

AGRICULTURE

14. The general character of agriculture in the Highlands and Islands reflects the nature of the terrain and the types of soils. With the exception of the coastal belt of good scable land in Inversee-mirry, the Black list and Rasur Poss, it is assentially inversees that the state of the second state of the second that the second that is a second to the second that the second that is a second to the second that is a second to the second that is a second to the second that the second that is a second to the second that is a second that the second tha

GENERAL AGRICULTURE

- Righland Features and Needs

15. Crofting agriculture is dealt with later in the report (paragraphs 2073). The problems of non-crofting agriculture in the Highlands and Islands are basically not dissimilar to those in the Highlands and Islands are basically not dissimilar to those in comparing a reas a dissimilar in bottom. The transity predominates, or rough gratings and only the small balance of about 10 per cent used for cultivation of crops and grasses. This invitably means that agriculture in the Highlands and Islands oncess very largely most de "marginal" type of framing, as in brought out in that table the transition of the property of the second of the comparison of the second of the comparison of the second of th

Farms and Acreags at 4th Juns, 1957 See illustration overlsaf

	No. of Claims	*	Acreage Assisted	ĸ	Amoun t	4
Crofting Counties	4,627	39	79,101	30	409,199	33
Rsst of Scotland	7,237	61	180,837	70	847,151	67
	11,864	100	259,938	100	£1,256,350	100

NUMBER OF HOLDINGS AND AVERAGE ACREAGE OF FARMS (INCLUDING CROFTS)



DRAWN TO SCALE

- 16. Though these figures are not fully conclusive, they do chow that if regard is paid to the relative screage under crops and grass there is a higher rigure of marginality in the crofting counties than in the rest of the country. With 14 per cent of the scale land in Sociand 33 per cent of the sum paid out in Marginal Agricultural Production assistance went to the Highland.
- 17. An alternative approach is to take into account the relative profitability of farming in the crofting counties compared with the rest of Scotland. From a sample of farms the net income per acre in 1961/92 for various types of farming in Scotland was ac followe:-

here figures are per acre of rough grazing.	
Grants for hill sheep, hill cattle, calf rearing	g, lime, fertilisers.
loughing up and M.A.P.	., , ,
18. Farms in the crofting counties are con-	distantly loss profi-
able, and production grants accounted in all to	pes for a larger
roportion of net income. (The crofting counts	es, however, probably
ecsived a smaller share of the price subsidies	
n fatstock, cereals, etc.). As the size of bu	siness in the croft-
ng counties is generally smaller than in the re	
isparity in the absolute level of income is gre	ater than the ner

acre figures suggest. The general picture that emerges is that, comparing the crofting counties with the rest of Scotland, incomes tend to be lower and production grants account for a larger proportion of income. As in the rest of Scotland, production grants on

*per acre of crops and grass with rough grazing converted to equivalent acres of crops and grass. Vice versa for hill sheep farms

Net Income per acres

Rest of

es 5s.

es 10s.

eo Se.

Scotl and

10s.

Crofting

23

97

07

48. 64.

Type of Farm

Livestock with arable

Hill Sheep

Dai ry

Upland Rearing

Production Grants as

percentage of Net

income

Rest of

Scotland

110%

604

48%

31€

Crofting

Counties

664

776

524

1224

upland rearing farms exceed the level of net income.

13. These conclusions reflect the features which distinguish Highland agriculture from that elsewhere in Scotland. The distinguishing features are - frier froncesses; this results in greater difficulty in obtaining intour, higher transport costs and physical marketing arrangements. Second, climatic conditions such as the higher rainfull and greater exposure in the remoter areas. Third, deficiencies of soil and difficulties of terrain - lack of rainful efficiency and soil and difficulties of terrain - lack of rainful for the second continuous conditions are the second continuous conditions are the second continuous contin

Indigition over to sport (and affecting the agricultural operations), Seris, the social and employment benefit. I the contribution which agriculture can make to community life and local employment is of greater significance in remote Fighiand area.

20. There is one factor in all this which is primarily an effect but is also a cause of other conditions. This is that the able much better in the South, and there is therefore a tendency for the better men to leave, thus resulting in a depopulation in quality as well as in quantity. For the rest, the effects of the features mentioned in the preceding paragraph are to be seen in:

- the vital importance of grass land cultivation, for which the climate and soil are generally suitable;
 the lower level of achievement in livestock rearing for
- example, the lower percentages of lambing, greater casualties in harder weather; (iii) the higher costs involved in having to winter away hoggs or
- to import keep for them;

 (iv) the cost of purchasing agricultural units in the Highlands
 - does not necessarily reflect these disadvantages, since purchase prices may be based on the attractiveness of the land for sporting purposes and also side benefits from taxation;
- (v) capital costs are generally higher (e.g. costs of building);
- (vi) there is probably an excessive dependence on sheep rearing reflecting some of the foregoing difficulties (cost of cantial equipment, labour and so on).

21. Despite these inherent or adventitious disadvantages, the standard of husbandry in the Highlands and Islands is sustained at a reasonable level, if one is thinking of the traditional farming of land which has been in cultivation for a long period. But there are wide exceptions. In particular, where land is owned or occupied primarily for other purposes than agriculture there is a tendency, which appears in some cases as an active policy, to allow the farming to run down to a dangerously low level. This is accompanied in some cases by a move away from tenant farming to the incorporation of the tenant farms into the estate. (We discuss this in a later section of this chapter). The corollary to all this is that, despite the very considerable development and improvements achieved with the help of Marginal Agricultural Production and other grants since the war, there is still scope for development and improvement. both by way of improving the quality of land already under cultivation or in grazing, or by way of bringing in areas of land which are hardly touched for agriculture. The vast areas of bracken covered hill land in Arcyllshire and elsewhere in the West Highlands are evidence by themselves of the massive contribution which improvement. properly carried out, could make to the agricultural economy of the Highlands and Islands. There would seen to be particular obstacles

in the way of such improvements - first the special risks attached to Sighland farming, particularly lack of capital and lack of inducement; these being aggrested in some cases by the practices and policies of a number of non-resident landlords of managed farms. We proceed to consider pricity these special risks.

Co-operation

Of the general problems of Highland agriculture, the greatest is probably the geographical remoteness, with the additional risks it brings of heavier costs of operation and difficulties of marketing. Higher costs are inevitable in the circumstances. though the improved transport to the Western Isles which the introduction of vehicle carrying ferries will bring about will help. is essential, however, that if agriculture in the Highlands and Islands ie to play its full part, there must be adequate recognition in the various schemes of Government accietance and in the fixing of transport charges, of the social and employment implications. are convinced that, while much useful work has been done by the Scottish Agricultural Organisation Society Ltd. and ite affiliated societies, a great deal remaine to be done if the advantages of co-operation are to be fully exploited. We recommend that the Society should be enabled to etrengthen and intensify their efforte. particularly in the marketing of livestock from the Islands, with the necessary provision of finance to stimulate and launch such developments.

Management

23. The climatic risks in Highland agriculture are considerable, and account must be taken of them in working out the best form of agricultural management. This is a subject to which considerable etudy and research have been devoted. All we would eay here is that the importance of developing grass as the basic of the Highland agricultural economy cannot be over-emphasised. We welcome the trend, as shown in the Winter Keep Scheme, towards the encouragement of grass as the basis of livestock rearing economy. This should not, however, exclude the development of other enterprises such as dairying in Lewis and bulb growing in the Islande generally, where these can be shown to serve a local need or to have reasonable prospecte of viability; though it has to be recognised that these kinds of development will not form more than a minor part of the whole crofting agricultural economy. One aspect of livestock rearing to which we think further thought should be given is the heavy dependence on cheep rearing. In addition to the husbandry considerations pointing to the desirability of a better balance between sheep and cattle, there may be an undue economic risk to an economy so

dependent on sheep in the event of a depression in the market for vool and for sheep products generally. For that reason, attention must also be paid to the development of other each crops so supplement the feed crops and livestock rearing. Despite its initial sembled, the Rebrices main growing columns and the contract the contract reason that growing columns are considered to understand the contract growing of bulbs and the assistance which the Development Commission have made available to them for that purpose. The number of College advisory officers in the labeled doubtle be increased to meet these meets and the Advisory Series along the supplement Commission when the contract of the contra

Capital Requirements 24. Difficulties over the shortage of capital for agriculturs

in agricultural land prices. Moreover the cost of stocking and equipping agricultural units has now greatly increased (e.g. with the development of more expensive machinery). Where the position in the Highlands and Islands differs is in the consequences. Generally speaking, good agricultural land in the south will find a purchaser who is an efficient farmer, even though this means that deserving, younger but less affluent men may be shut out. Highlands and Islands the effect of these high costs sometimes is to produce purchasers of agricultural units who have the capital but are not practical farmers; or purchasers whose primary interest is in the sporting value of the land. In either case, there is deterioration in the standard of husbandry and in the effectivensss of the land used. There can be, moreover, a serious effect on the economy and social viability of the communities concerned and this (particularly in Mull) has proved to be perhaps the most disturbing aspect of the trend.

are not confined to the Bighlands and Islands. The shortage of agricultural land (in relation to demand in the relatively prosperous post-war conditions) has resulted in considerable increases

Land Bank

26. We have found no easy asser to this problem. It is true that credit facilities are variable through the Societia Agricultural Socurities Corporation, while the burden of easipping an agricultural unit can be eased by the use of hire purchase facilities. In Highland conditions, however, these are clearly not enough. Moreover, even if the facilities were extended and conditions eased, the effect might will be simply to push land prices still higher (as, for instearce, the grants and loans for building of

fishing boats probably tend to push up the priess of boats). We recommend that something more be done to case and stend existing credit facilities. In this the banks could probably adopt a more fictable attitude. In addition, however, we think that there is a case for greater provision of lesses from Government sources to make the state of t

CROFTING AGRICULTURE

26. Crofting presents features and problems of the own, and we have considered these in consultation with the Crofters Commission who have statutory responsibility for the regulation, development and reerganisation of crofting. Details of the numbers and distribution of the ororte are given in the table below.

Groft acresses as at 20th April, 1964

	Agres Up to 8	Acres 6 - 10	Acres 11 - 15	Acres 16 - 20	Acres 21 - 30	Acres Above 30	Total No. of Crofts
Argyll Caithness Inverses	411 87	189 73	85 89	82 41	109 68	248 206	1,295 1,206
East Mainlend West Mainlend Skys and Small Islas	99 137 540	123 78 389	70 29 806	28 12 99	62 14 181	158 31 149	688 431 1,984
Outer Reles (including Earris, Barrs, North and South Uist)	387	489	594	258	548	285	2,388
Orknay Ross-shivs: East Mainland	39 84	53	90 76	33	67 57	148 178	669
West Mainland Lewis Butherland	816 2,299 798	85 207 1,022 425 218	188 197	35 35 81 125	7 30 105	24 19 156	1,407 3,590 8,088
Shetlend	£10 5,887	3,421	1,685	185	1, 119	118	2,895 19,276

Notes (1) The figures of croft screepes are based on a percentage check ranging from

(2) A total of 4,616 crofts with no known acreage are included in the total figure of 19,276 crofts.

(3) The acreages are exclusive of common gravings.

agricultural potential.

Ancillary Employment 27. It will be clear from the table that a very large number of crofts are very small in size, and that numerically smaller crofts are concentrated into certain districts (particularly in large parts of the Outer Isles, Shetland and the North West coast of the main-In many of these cases it is not practicable for the orofter to follow a reasonable rotation, and for that reason and also because the main interest of many crofters lies outside agriculture, the standard of cultivation is low and little advantage is taken of the agricultural grants available through the Crofters Commission. On the other hand, in some areas, such crofts, though small, have had their agricultural capacity increased by improvement of common grazings and this must not be lost sight of. We have, however, had to consider to what extent this section of crofting should properly be regarded as an agricultural problem at all. Though there may be a continuing agricultural activity, the quality of the soil in many cases is poor, and the crofts are largely used for housing accommodation and to provide a base from which the crofter can engage in non-agricultural activities. We doubt whether the process of re-organisation (involving the amalgamation and enlargement of crofts, to produce more viable agricultural units) is really a practical possibility so far as these congregations of smaller crofts are concerned. In this connection we have noted comments by the Crofters Commission indicating that they do not, for example, contemplate reorganisation schemes on any scale in the Island of Lewis. We are convinced that the potential of these considerable numbers of very small crofts cannot be assessed purely on agriculture and that the problems presented by them are not primarily of an agricultural nature. The essential requirement is to ensure that there are employments and occupations for the occupants of the crofts and their families. This need has been fortunately met to some extent in Lewis by the Harris Tweed industry, while employment in the Merchant Navy has usefully supplemented the employment available on the crofts and in the Harris Tweed industry. We discuss the queetion of providing non-agricultural employment for crofters when we deal with other uses. At this stage, however, we record our view that the administration of these small crofts should no longer be directed prinarily to their optimum agricultural use, the emphasis being on the vital need for suitable non-agricultural employments and occupations. This view is etrenethened by the formal recognition given in section 5 of the Crofters (Scotland) Act 1961 to the right of the crofter to use, within reason, his croft for suitable gainful activities other than agriculture. This is of special relevance to the large numbers of small crofts of extremely limited

28. The problems in crofting lend use are, essentially, to be found in the croft other than these very small untit (though one must exclude from this the small number of crofts sufficiently substantial as to be full-time, viable agricultural units on any normal reckening). The problems involved are well-import, be have only a good standard of thushandy (about one-third of orotrers have though use assistance available under the Crofters Agricultural Grants Scheme). Many crofter are grossly underculturated or not cultivated at all, and in terms of agricultural land use there is a consideration of the contract of the contract of the contract of community.

Crofting Structure

29. Since most of the crofts are part-time agricultural units. difficulties tend to arise because the units are, on the one hand, too large for a crofter engaged in full-time outside occupation to look after in his spare time and, on the other hand, too small to provide the crofter with a reasonable living. The creation of ancillary employment by itself is not enough to colve the problem, since this would only tend to aggravate the neglect. We have, therefore, in this field of Highland agriculture, a potential capable of being considerably developed. This has been recognised. and the policy embodied in the Crofters Acts has as its objective the improvement of standards of husbandry and the improvement of the crofting structure. These are natters, of course, for the Crofters Commission and we can only commend the steady progress which they have made towards better standards of crofting. In their day to day handling of the statutory provisions, relating to absentee crofters, reletting of vacant crofte, assignation of crofts, subletting, apportionment of common grazings, and so on, a good deal of useful work has been done but the pace is inevitably very slow and formal reorganisation, to which the Taylor Commissions attached importance, as a means of speedy redevelopment of crofting, has played a quite ineignificant part in the total operation.

30. Some rationalizing of the crofting structure has, of course, been taking blace on a less formal basis. Nows a crofting land-tord is willing and in a post tion to do so, and ear of the course parts of development for his estate, a good deal can be seen parts of development for his estate, a good deal can be seen parts of the course o

Printed image digitised by the University of Southernoton Library Digitisation Unit

[#] Report of the Commission of Enquiry into Crofting Conditions, 1964 - Cad. 2001.

progress has been made by consciously switing to a general plan. Experience in Styp, there he sajority of the crots are in the Secretary of State's ownership, illustrates the difference in the pace of such development as between publicly owned and privately owned crofts. This has resulted, in this, increased the same of the pace of the same of the same of the same of the same of Skye continues the same of the same of Skye continues the same of the same of Skye continues the same of the same of the same of the proportion of unused or under-used croft land is specialarly less in the areas where state-owned crofts predominate than in the others.

Development of Crofting Estates

- 31. To encourage private landlords to become more progressive the Coumission is willing to prepare development proposals for crofting estates. These proposals would involve co-operation between the Commission and the landlord to make sure that crofts falling vacant passed to active crofters, and as far as possible were used to build up full-time units, e.g. it would be a very great help to the Commission if landlords were prepared to keep crofts vacant for a period where that is necessary to facilitate the carrying out of an orderly programme of enlargements. Also encouragement would be given by the Commission to active crofters in the townshin to repair and/or renew equipment with the aid of the grant and loan scheme; to expand their cropping and land improvement; and to apply for apportionment of improvable areas of the hill pasture. The proposals could also indicate all grazing land capable of growing trees that could be released from agriculture, and, in favourable circumstances, it might be possible to carry through a statutory or voluntary reorganisation scheme to create as many full-time family crofts as possible.
- 32. It has been maggested that a solution to the crofting preblem would be for all crofts to be taken into the conversing of the Secretary of State. There would indeed seen to be ground for respecting that by that seems the paper and quality of router resonatsers, the seems of the second of the conversion of the converence of the conversion of the conversion of the converence of the conversion of the conversion of the conversion of the satisfactory level of indiscensor. So for as formal reorganization schemes are concerned, the consent of a smjority of the orderer in schemes are concerned, the consent of a smjority of the orderer in clearly in the conversion of the conversion of the conversion of the deathy) is unlikely to be achieved on my significant scale. Again, the right of the crofter displaced by reorganization have about the conversion of these changes are convinced that the

rationalisation of the crofting structure by the Crofters Commission. particularly as concerns the middle range of crofts, will require really effective methods to enable them to initiate and execute schemes of reorganisation. These will have to be matched with greater inducements to the crofters concerned to surrender all or some of their existing land where this is required. We note from their Annual Report for 1963 (paras. 139-143) that the Commission are undertaking a reappraisal of their functions and policies. We would welcome and support any suitable proposals by the Commission with a view to improving and rationalising the structure of the middle range of crofte. The question of provision of adequate services (roads etc.) is, of course, important. We recommend any action the Commission can take to bring about improvements in the crofting pattern using the existing statutory opportunities for enlargement. and bringing in non-crofting land where necessary. Progress in these directions would be a useful step towards the optimum use of agricultural land in the Highlands.

Grant and Loan Facilities

33. We have already discussed (paragraphs 24-25) the queetion of capital requirements of Highland agriculture generally and what we recommend there includes, of course, crofting agriculture. There are however particular aspects of the problem as it affects crofting. It has been represented that crofters are hampered in many cases in developing their land by a lack of capital to carry out echemes of improvement, particularly larger schemes on common graz-It has been suggested that the substantial impetus given to the movement for regeneration of common grazings, which has produced such spectacular results in Lewis, is not being maintained, and that this may be partly due to inability to raise the balance of capital beyond the assistance given under the Crofters Agricultural Grante Scheme. Under this Scheme grants of 85 per cent are available for schemes of improvement, while substantial rates of grant are available also for various other items. While it may be that the rates for particular items merit review, we consider that, generally, the scheme provides fairly generous assistance by way of grant. Where the shoe pinches most for the crofter, so far as raising capital is concerned, is in the purchase of permanent improvements and the stocking of the croft at ingo, the purchase of etock required following schemes of land improvement, and probably most of all, in meeting the balance of coet (after grant is paid) for the larger scale schemes of improvement on the crofters' common grazings. Common grazings schemes can be expensive and not all the crofters in the township necessarily participate in the development. Loans are

ingoing liabilities (acquisition of personent improvements, livestock, etc.) but these are subject to fairly strict limits. The cost and amount of personent improvements are generally much greater than in the past, and if croft land is to be fully exploited much heavier stocking will be necessary.

difficulty in raising the balance of capital from the usual sources (particularly the banks). To a considerable extent this is due to the limitations on security resulting from the crofting form of We doubt, in the circumstances, if the gap is likely to be adequately filled by private organisations, and we recommend therefore that consideration should be given to the possibility of extending the loans at present available (by raising the Upper limite and applying them more flexibly) and to providing loans, on a limited scale, to supplement grants in respect of large regeneration schemes. We believe that if this need for capital is not met, the reasonable potential of croft land will not be developed; conversely, given suitable additional aid, crofters would, we are sure, greatly increase their contribution to the agricultural sconomy. all this there must be a high degree of confidence in the future reasonable expectation of adequate prices for stock after improvement, for example - if crofters are to go shead with their improvement schemes and if the organisations concerned with cradit are to give favourable consideration to the crofters' needs. We must underline, therefore, the importance of the crofting development being matched with adequate marketing arrangements, reasonably assured price levels, and adequate machinery and contracting services.

Winter Keep

35. There is a particular problem arising or likely to arise from the increasing regeneration of comon graning by cortiers. The benefits already accruing from such schemes in lasts (both in improved quality of stock and increasing numbers of stock carried on the granings) are impressive but the provision of winer keep to the provision of winer keep to provide the provision of winer keep to the provision of winer keep to the provision of winer keep to the provision of winer keep and the provision of winer keep cover, we draw attention to the need for keeping a belance in future schemes of corfiers' and improvement, to ensure that grazings expectly described to the control of the provision of the

grants under the Crofting Countes Agricultural Grants (Souland) Scheen; 1963 to include conserving grass as a crop (either as he ye as silago). In the West Highlands and Islands grass is the natural comparison of the control of the

Access for Land Improvement

36. A further problem which the increasing number of lead improvement schemes is bringing out in acute form is the provision of adequate access. Practically every scheme of land supprovement challenge of predictally every scheme of land use (as we discuss later) depends on accessibility. The problem has become more acute in the land on accessibility. The problem has become more acute in the land of the land of

Crofter's Housing

97. We would refer, lastly, to the question of housing accommodation for corforse and assaining publidings on corfor. Corforest housing accommodation is important for two reasons - first, if corcinate the contract of the contract of housing must be satisfied and improved to give the actual of housing must be satisfied and improved to give the contract of holiday accommodation for tourists. The accommodation of tourists of holiday accommodation for tourists. The accommodation of tourists with which the appreciation of the contract of the

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New Houses Improvements to Houses 90 162 Argyll 70 13 Catthness Inverness - Mainland 95 100

as will be seen from the following table:-

Bonne

South Hist.

North Uist 17 40 94 AA Harris 112 941 Stee 90 98 Orkney Ross and Cromarty - Mainland .51

R

110

27

80

loan assistance. Between 1948 and September 1964 no fewer than 985 new croft houses have been built and 2.011 croft houses substantially improved, though the geographical incidence has been somewhat uneven

Sutherland 996 41 116 Zetland Total 985 2,011

We strongly recommend that the fullest publicity should be given to the facilities available under the Scheme and that the Scheme should be administered as flexibly as possible and with regard to the wider requirements of the crofter. LAND SETTLEMENT

Any review of agricultural land use would be grossly lacking if it did not deal with the special problems of land settlement and land reclamation. I and settlement has been carried out in the Highlands and Islands on a fairly substantial scale in the past. though little or nothing has been done since the war. The creation of new holdings is still urged by many people and bodies as a means of both establishing new nonulation in the remoter areas and also preventing the drift of population from these areas and the deterioration of the crofting economy. There has generally been a feeling that, since crofting occupies such an important place in Highland agricultural economy, means should be sought to extend and develop it. The Taylor Commission on crofting has summarised (in paragraphs 109 and 110 of the Report) the considerations which led them to recommend "that an active and imaginative use should be made of land settlement nowers in the crofting counties as a contribution to the solution of the crofting problem" and that "the promotion of

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such ackness and thair supervision once they are tested should open within the purity or the new administrative authority* which they recommended and which was eventually established as the Crofters Commission. In making these recommendations they suggested that the land settlement powers already wasted in the Secretary of State the land settlement powers already wasted in the Secretary of State in the land to the Commence of the Commence of the Commence of the local commence of the Commence of the Commence of the Commence of the Secution Act, 1905; should be directed to the recrementation and awalopsess of crofting and that the theoreporation of land into crofts wither than to source the creation of complexely new holdings.

- 39. We regard as an essential condition for land settlement that there should be, in the area and in the land in question, real potential for development. One of the circumstances giving weight to the representations for land settlement is the existence of large areas of uncultivated or undercultivated land throughout the Highlands, some of it used - and sometimes even badly used - for limited privats sporting purposes. Even superficial examination of some of these areas makes it clear that they are not really suitable for land settlement. Navertheless, if it were decided to embark on such development, a number of areas offer possibilities. Taylor Commission referred in particular to the Island of Islay. which they thought would be most suitable for settlement, and also to the mainland of Orkney where they estimated that large tracts of heathery land amounting to some 10,000 acres could be used. These are, of course, not the only areas which offer possibilities. In recent years a significant change has taken place in the
- structure and somure of farming. The cost of setting up in a farm (even of modes size) is substantial, farming he been relatively prosperous and there has been a considerable pressure of demand for the statistic. This has resulted in rising the limited manner of farms evitation. The interest of the compital resources, who say not have the best interests of the agricultural use of the land at heart. Fart of the case for land extlement is that it is one way in present circumstances by which extlements is that it is one way in present circumstances by which called the contract of the co

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41. Despite these circumstances, it has not been the policy of Governments since the war (irrespective of party) to undertake land settlement on any scale. Land settlement is not ruled out altogether (there have been one or two isolated cases) but, on current policy, the Government would have to be satisfied that there is a real need for this kind of development, that it would secure a social and economic purpose which cannot otherwise be achieved. and that the costs of doing so are not excessive in relation to the benefits likely to be derived. They have not been satisfied that land settlement on the traditional pattern would fulfil these criteria. Far from creating new small agricultural units, the Government have followed the current economic trends which point to the development of larger and more economic sized units. The Government's system of serioul tural aids is accordingly directed to the improvement of the land and increased efficiency and production. The subject is, however, complex, and neither the trend nor the conclusions to be drawn from it can be in any way clear-cut. Strictly economic assessmente of smaller farming operations cannot, for example, take full account of the willingness of the small farmer and his family to devote time and energy to their enterprise far beyond what is to be expected of ordinary industrial workers, and the small farmer does not have to cost his own, or his wife's, houre of labour. In any case, we have no doubt that for many years to come (in the absence of unforeseen cataclysmic changes in the agricultural economy) there will etill be a keen demand for the smaller and middle size farms.

42. In their study of thie question, the Panel have borne in mind its history and background. There are three points of general interest which we would make.

First, we accept that the creation of emallholdings of the kind eetablished between the ware is not a practical proposition in present circumstances. These holdings were created to meet particular needs arising from economic depression and severe uneemlovment. agricultural units are to be created, they must be of a viable size. capable of economic operation. The Panel take the view that this means a minimum size of unit, capable of sustaining a family. Views differ as to what this means in actual practice. It has been armed that a unit capable of providing a net income of around 6500 a year would be sufficient. We feel that this is too low. What is necessary is that the net income should be sufficient not only to provide the farmer with an income of, say, £500-£600 a year, but also to leave sufficient slack for contingencies and, in particular, as the farmer sets older to enable one of his sons to take over gradually from him. Something more than a minimum one-man income is therefore required. As a "yardstick", and for the basis of our assessment of Highland farm visbility mentioned in paragraph 8 we have had reward

also to the average enging of industrial wripers, and on the shollow we think that a figure of avound 2700 per some (this is in fact, about one and a third times the basic minimum wage of a tractor driver in agriculture) is necessary. This seems that the minimum of the contract of the contract of the contract of the contract conditions of miner and is a small rare (which under modern conditions of miner of minimum conditions of minimum conditions

Second, we have considered the problems arising from the undoubted difficulty which the younger, less well off 'farmer' has in securing the tenancy of a farm. The supply of farms is far less than the demand for them, and while this situation prevails there will inevitably be a large number of younger persons unable to obtain a place of their own. We cannot be doctrinaire about the virtues of a tenant-farmer as compared with an owner-occupier or indeed a large farm establishment run by a manager and employees. Provided the agricultural production is efficiently carried out, there is, and should be, a place for each type of operation. And the person with adequate capital resources is more likely to work his farm with full efficiency than is the impecunious person. The question arises, however, whether these larger agricultural sporting estates (and owner-occupied farme) are always worked efficiently and to full advantage. Our conclusion is that in a number of cases where the primary interset is sport, agriculture suffers. There is, moreover, the question whether, if the present trend in agriculture shuts out the notential enterprising person from farming, provision should be made by the State to ensure at least a limited measure of opportunity for them.

Third, one of the difficulties about the creation of viable holdings is, however, that if the agricultural unit is to be of adequate size, the numbers which a given area can sustain after it has been broken up into emaller units may not be any greater than on ite existing basis of working. The case therefore must, to a large extent, depend on social and general sconomic considerations. The cost of creating units of the size envisaged would depend greatly on particular circumstances. In the majority of cases, new buildings and services would probably be required. The cost of erecting a new farmhouse and steading with roads, water and electricity supplies would seldom be less than £10,000 (the cost of providing house and steading would itself amount to at least 27,000). In addition improvements to the land, such as drainage, fencing or reclamation might be necessary while the tenant would have to find capital for stock and equipment. The total landlord and tenant capital required for a new unit, providing full-time employment for two workers, would certainly be substantial and probably in the region of £15,000 to £20,000. There is no possiblity of this being

carried out without very extensive subeidy by the State. On the purely financial plane, land settlement is bound to be expensive.

Problem Areas - Null

We have given special consideration to the possibilities of land settlement in two areas in which economic and social conditione call for development of one kind or another. These areas are the Island of Mull and the Durness area of North West Sutherland. have given much thought to the problems of Mull, where severe deponulation has taken place and where the standard of agriculture has suffered from a marked trend towards the grouping of farms and from the merging of farms into sporting estates. It has been clear for some time that unless something radical is done, the Island of Mull will have declined to the point at which the revival of community life and a viable economy might no longer be possible. This steention will also, we understand, be reached soon in the Southern Uplands of Scotland unless adequate remedial measures are taken. The Forestry Commission have substantial echemee of afforestation in hand in the Island (they have already planted something like 7.000 acres out of a total of some 13,000 acres of plantable land acquired) but the speed of their planting operations is held back by lack of labour, a result of the rapid depopulation. Some of the agricultural land has got into the hands of persons with little or no agricultural experience and the running of some of the farms must, in our view, he grossly uneconomic. Apart from its longtown benefitte we have no doubt that forestry offers the heat immediate answer to Mull'e probleme. The recent introduction of the vehicle ferry is opening up the Island to touriet traffic, but the effects will take some time to develop. Basically, however, Mull reguires a healthy agriculture, and this should support a reasonable number of agricultural workers and farmers. abundantly clear that this is not being achieved at present. We have therefore had to consider the prospects of creating farm units and the problems involved. A note setting out in more detail the main agricultural problems and our consideration of land sattlement possibilities is contained in Appendix E. The escence of this is the demonstrable need and scope for improved land use and develorment. As will be seen from the note, we have concluded that a combination of forestry and improved agricultural use by active farmers of land at present under-weed would greatly contribute to the solution of the problems of depopulation and decay of communities in Mull.

Problem Areas - North West Sutherland

44. The Durmess district was examined following representations from local corders and others that there were substantial areas of land capable of being used for land settlement and also for extending the gratings available to the local tommships. It became the local prompts, it became the local prompts of the position and the discussions we had the local people that the travers had encountered difficulties with the provision of regalar, which will be provision of regalar, wage-carming employment. For this, they look towards forestry development in the area. Unfortunately, they proposed to the Forestry Commission were the control of the contro

Enlargement of Crofts -

In trying to reach conclusions on this subject, we have had to face the fact that on current policy, the amount of land settlement being undertaken - even in the widest sende, including the taking in of non-crofting land for the enlargement of crofts - is minimal. There are no creations of new agricultural units, while the reorganisation provisions in the Crofters Acts have produced little or no result. We have, in paragraph 32, recommended the strengthening of the Crofters Commission's powers to effect township reorganisations. In the present context, however, we recommend that the possibilities of securing the enlargement of crofts in suitable circumstances, by taking in non-crofting land, without formal reorganisation, should be given the closest consideration by the Commission. What we have in mind is the many cases of crofts which are substantial but not quite viable units, where the incorporation of a modest area of non-crofting land would raise the croft to a state of economic viability. This should be done by voluntary asgotiation where practicable but if necessary the use of Land Settlement powers should be considered.

Unified Land Management -

46. We cannot accept that, in the conditions prevailing in the Highlands and laiends, natters should be left as they are, and that nothing should be done to neet the needs which we have described. At the least, we consider that agricultural lead already in the possession in the normal course (or boulded or confug into this sittons) whould be used as far as possible to establish suitable

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family farm units. There are at present 154,000 acres remaining from forestry acquisition in the management of the Department of Agriculture and Fisheries for Scotland. In most of these cases (viz. agricultural land remaining after the allocation of land for planting) considerable expenditure has to be incurred both to bring the land into a reasonable state of husbandry and to make it reasonably suitable for sale. We are convinced that this process, by which forestry plantations are separated from the surrounding land. with which they are and should be physically and economically managed, creates an artificial situation. We discuss this later when we consider the future of forestry in the Highlands, but we would emphasize here the importance we attach to a system of properly balanced estate management of State land. The present process of selling off agricultural land remaining from forestry acquisitions may be defensible in other parts of the country. But in the Highlands and Islands it can only lead to further difficulties and deterioration of the agricultural and social structure. dingly recommend that the Government's policy in this respect should be reversed and that such estates should be managed (including forestry and agriculture) as a unified land management task. As forestry acquisitions proceed, the effect of our proposal would he cumulative and would produce an increasing number of suitable agricultural holdings in areas where the injection of a new nomulation of working farmers would stimulate the whole social and econo-It is true, as we have said, that the creation of new holdings of viable size would be uneconomic in the narrower sense but development in these circumstances (where much of the nermanent equipment is already there) would be less expensive then the creation of new units de novo.

Family Farms

47. We feel, however, that while opportunity should be taken of the land already available and becoming available in the normal course (in some cases, for example, scapisation for egriculture might precede equidition for forestry), it is necessary to go further in areas of special need, such as Sall. In these areas we have a superior to the sentiating powers and exquire authorized for the creation initially of a limited number of feelly farms. Depending on the progress made with the creation of furily farms on the lines we have suggested, the question of furity farms on the lines we have suggested, the question of furity farms on the lines we have suggested, the question of furity farms. This would epily particularly to the positility of creating new section furnal units following land that the contraction of land we also also the contraction of the contra

LAND RECLAMATION

- 48. Strictly speaking, land reclamation means the creation of new land. In our consideration of this question, however, we have not dealt in any detail with the possibilities of reclaiming land from the sea. The economics of such operations would no doubt rule out many proposals of this kind. A number of schemes have, however, been mooted from time to time. In 1949 the Department of Agriculture for Scotland proposed to reclaim an area of foreshore extending to some 400 to 500 acres of sands known as Cockle Ebb in Lewis, at an estimated cost of £12,500. It was anticipated that the reclaimed land would provide valuable grazings for the adjoining Tong Farm and enable 100 dairy cows to be carried. The Department submitted a proposal to the Scottish Land Court regarding the acquisition of Tong Farm on the grounds that "full and efficient use of the land on this farm for agriculture was being prevented by reason of the work not being carried out and fixed equipment not being provided". However, the Scottish Land Court rejected the proposal and the reclamation scheme fell through.
- 49. In recent years the Westminster Estate considered a scheme involving the reclamation of some 20 acres on Badnabay, Sutherland, Thie scheme was expected to provide valuable winter feed for cattle on the Estate but in August 1957, for various reasons, capital expenditure was suspended by the Estate and the proposal was dropped. Other echemes have been mooted for the chores of the Besuly or Cromarty Firths and for the Kyle of Tongue in Sutherlandshire where low tide reveals extensive areas of flats which, had they been situated in the Netherlands, would have been reclaimed from the sea. Imaginative and enterprising schemes have been very successful in that country where more farming land was so urgently needed. believe that fresh consideration of these schemes (especially the one in Lewis) might well show worthwhile possibilities, not only in the agricultural land that would be created but also in the sncillary aspects - additional employment and a contribution in some cases to the improvement of transport facilities.

The Scope for Reclamation

50. The other main element in the development of land for agricultural use, leading possibly to the creation of new holdings, is about the control of the co

drainage, ploughing, rotovation and subsequent treatment with fares. lisers, leading to extensive and varied cropping. There can be no doubt about the scope for land reclamation in the Highlands. Estimates of the amount of land in the Highlands capable of heins reclaimed have varied, but on the basis of the figures quoted in the Zuckerman Reports, there would seem to be probably some 100.000 acres of land immediately suitable and sufficiently accessible for reclama-This is a figure which we are sure greatly underestimates the nosethilities in view of the considerable developmente in techniques in recent years which have radically opened up the technique of surface reseeding and other new methods of land improvement. The whole question is of such importance that, in addition to the specific recommendations we make later in this section we recommend that continuing study should be given to the methode and techniques of land reclamation and their application to Highland conditions; this is a matter which, we consider, the Panel should continue to study and produce further specific proposals in due course. This study should include all aspects of reclamation, including the improvement of hill land, peat land and reclamation from the sea.

A considerable amount of reclamation (in the 'improvement' sense) has been and is being carried out in the Highlands and Islands. Within the crofting field alone, something like 4.000 acres are being improved annually, and there are numerous other individual small schemes of reglamation. Most of these are of the simpler surface regeneration type of reclamation; schemee involving the 'full treatment', and schemes involving reclamation of deep peat are relatively fow in number. Nevertheless, the results which have been obtained from even the simpler type of reclamation have been quite impressive. The Lewis crofters (who have already improved about 8,900 acres on their crofts and common grazings) are already finding substantial improvements both in the quality and the quantity of their livestock (increases of as much as 80 per cent have been mentioned). This very success may well create a further problem of reclamation since the improvements so far undertaken (on the grazings) have increased the need for winter keep to keep pace with the summer grazing capacity. The need for increased winter keep in the Highlands has always been evident. Current trends are accentuating this - not only the results of the grazings reclamation but also the trend towards greater hand-feeding of stock during the winter. are therefore convinced that to meet the requirements of existing Highland agriculture, further efforts at reclamation, including surface regeneration and more fundamental reclamation for the provision of winter keep etc., are called for. The arrangements for

p Forestry, Agriculture and Merginel Lend - A Report by the Natural Resources (Tachnicel) Committee.

- assistance to crofters and others for such operations must be such asto provide a reasonable inducement and to ensure a reasonable return.
- 52. Up to the present time, it has been left to individual crofters and farmers (in co-operation with their neighbours, where appropriate) to undertake schemes of land improvement. The basic principle of Government policy in this matter has been to provide assistance to the individuals to encourage them to undertake reasonable schemes, leaving the initiative and the exact means and extent of the reclamation to the particular individuals. A corollary of this has been that such schemes have tended to consist mainly of small additions of 'improved' land to the farm or the croft or the common grazings. Unfortunately the loss of the Marginal Agricultural Production Scheme means a loss of stimulation for this kind of reclamation, and the new Winter Keep Schemes do not touch reclamation. There is undoubtedly scope for considerable extension of this kind of development throughout the Highlands. The further question is what scope and need there may be for extension to larger reclamation echemes, whether privately or publicly sponsored.

Group Reclamation Schemes

53. We believe that the time may be opportune for making a etep forward in substantial schemes of land reclamation in the Highlands. The circumstances which point to this are, first, the availability of suitable machinery for the purpose (particularly the tractor with its various possible combinations); second, the increased knowledge of the techniques required for successful land improvement; thirdly, the availability of suitable fertilisers. One of the main obstacles to the economic use of the larger machinery required for full scale reclamation is the need for a sufficiently large area in which it can be used to advantage. The answer to this problem can be found either by a number of farmers and crofters co-operating in a toint echeme or in a group of schemes in the same area, or by the sponsoring of large individual schemes of reclamation. Various attempts have been made to develop co-operation for group schemes of reclamation, but the difficulties arising from the statutory requirements (e.g. under the Brainage Acts) and from the need to secure agreement amongst a sufficiently large number of farmers, have so far prevented any serious development along these lines. The successful develorment of machinery syndicates elsewhere for other agricultural nurposes indicates that the difficulties in the way of such developments in the field of reclamation may not be insuperable. We feel that further efforts should be made to encourage group reclamation schenee and we recommend this for special consideration by the Scottish Agricultural Organisation Society Ltd.

Comprehensive Developments - Dalchork Farm

The possibilities of recleasion, both to provide winter town and better printing have been shown by such schemes as those being undertaken by the North of Scotland College at Achtery and elsewhere, and by the Department of the Pariculture and Finderica for Scotland in its development of the Pariculture and Finderica for Scotland in its development of the poorer gravings being undertaken at Dalchork will, it is hoped, show that the lavel of sheep stocking can be largely maintained, despite the lower of common for the better graving of the provided by the common for the c

Pilot Reclamation Schemes

55. The advantages of reclamation are very real, and can be of considerable significance to the Highland economy, even on the basis of the limited individual schemes so far undertaken. Reclamation can extend the smount of arable ground, reduce overheads by increasing the scale of the enterprise, reduce the losees from rabbits and other pests, and generally improve the quality and quantity of the farm output. It is practically the only way by which the year by year substantial losses of good agricultural land to urban, industrial and other uses can be effectively made good (the annual loss of land from agriculture is estimated at 10,000 acrss). Reclamation in the Highlands can therefore make a contribution of national significance. The effect on the economy and employment in the Highlands of larger scale reclamation could be quite considerable. been estimated that even a modest increase in the rate of reclamation in the Highlands (to about 10.000 acree per annum) would provide a substantial measure of employment (probably about 100 men) . The agricultural production would be correspondingly improved. There are substantial areas, particularly across Sutherland and in Caithnese, where sizeable schemes of reclamation could be undertaken. Some of this reclamation is quite expensive, but the returne in employment, agricultural production and benefit to the social conditione in areas of depopulation are of such value as to make it desirable that the assistance available should be sufficiently

employment, agricultural production and ofwarit volume as social consciously tions in areas of depophation are of such value as to make it desirable that the senistance available should be used to make it is concurring. Something more may be used to be a something to make a concurring to monthing the beginning of the downward and to easier a something to be gained, and it seems to use have not as channess set in half to be downward and the downward and the concept and the c

GENERAL AGRICULTURAL CONCLUSION

We have made various recommendations which, it seems to us. would improve the agricultural land use and strongthen the economy of the Highlands and Islands. We must make clear our view that if agriculture is to be opened up in the Highlands and Islands and if standards of husbandry are to be reasonably assured, some special measures should be considered. We do not envisage compulsory standards of husbandry, and we doubt whether any action should be based on considerations of agricultural production alone. Where, however, it is clear that agricultural land is clearly failing to make its true contribution to the economy and social viability of an area which is in process of decay, and if the land is suitable for agricultural and forestry development, we recommend that the Secretary of State for Scotland should be prepared to exercise his powers of acquieition (either under the Land Settlement provisions or under the Forestry Acts), for development of the land by efficient farmers. with reclamation where the land offers possibilities for this.

FORRSTRY

57. When we turn to forestry, we find problems of land use differing in kind or degree from those in agriculture. The whole question of forestry in the Highlands and Islands tends to raise strong feelings one way or another. There are those who would argue for a vast programme of tree planting, pointing to the evidences of large forests in past ages. There are equally extreme arguments against forestry, on the ground that it encroaches unpardonably into the very limited amount of better agricultural land. It is true that the kind of land suitable for forestry is generally also suitable for agricultural purposes, though the best land for tree planting is relatively wetter than the best land for agricultural purposes. Both agriculture and forestry would gladly give away the exposed, high 'hard tops' provided they could have the more sheltered areas, with better soils. The problem of settling how much land and the particular areas of land which should be devoted to forestry in the Highlands is therefore particularly difficult. So far as bodies like the Panel are concerned, one of the difficulties is that few, outside the Forestry Commission, have the necessary expertise and experience regarding planting in West Highland conditions. It must be recognised that forestry in many parts of the Highland area has. in large measure, to be on marginal and difficult sites. This means that the unique experience of the Forestry Commission is necessary for assessment of forestry economics in this area. In contrast, there is no scarcity of expertise and experience in farming. There is, therefore, a very real difficulty in assessing the relative economy of agriculture and forestry. This is accentuated by the variety of types of farming in different areas (the relative economics of those different types of farming are a difficult study in themselves). Forestry is, moreover, a much longer term affair and though there are fairly well-established methods of assessment of such longer term economics, any such assessment of forestry economics is necessarily based on present assumptions. A point which was made to us, as affecting North and West Highland conditions in particular, is that while much of the planting in many of these Western areas may be relatively uneconomic, subsequent crops of timber (for which roads and fences would already have been provided at the time of initial planting) should show a better economic return. Since the committal of land to forestry is long term (in agriculture a switch from one form of husbandry to another can usually be made fairly quickly) clearly care is required in deciding the nature and extent of planting programmes.

State Planting

58. In these circumstances the dependence on State planting as the main instrument for securing adequate forestry is to be expected, though the importance of private planting should not be undersestimated. State planting in the Highlands is necessarily part of a National programme which, since the war, has been varied from time to time.

59. The present policy and arrangements for State planting are based on a due integration of agriculture and forestry. There has been no suggestion, for example, that the forest planting should be undertaken on a wholesale scale, with virtual extinction of agriculture in any district. Indeed, it is one of the basic objectives to ensure that large areas are not sterilised to agriculture and to ensure that good agricultural units are not extinguished. Conversely, no area has been excluded automatically from consideration by the Forestry Commission, other than on grounds of natural unsuitability. In their operations the Forestry Commission have adopted the principle of securing stability of employment and operation over a long period, rather than indulging in sudden burets of activity followed by periods when little or no employment would be Finally, the Forestry Commission, though possessing powers of compulsory acquisition, have not, in practice, used them, relying on freely negotiated acquisitions.

Approval of Land for Planting

60. The reconciliation of agriculture and forestry requirements obviously calls for a well-defined procedure, and a procedure designed for that purpose has now been operating for some years between the Department of Agriculture and Fisheries for Scotland and the Forestry Commission. In essence the procedure involves the reference by the Commission to the Department of proposals to acquire land for planting, at the earliest stage, with an indication of the extent to which they would regard the land as suitable for tree planting. The Department examine the area proposed for acquisition to assess its agricultural quality and potential, the standard of current husbandry, and in the light of these they assess how much land could be set apart for forestry, generally with the aim of leaving a reasonably economic agricultural unit. In some cases, of course, the choice lies between retention in agriculture entirely or allocation to forestry entirely. The position is then the subject of discussion between the Department and the Commission, the Department's main interest being to safeguard reasonably the agricultural use of the land, while the Commission's aim naturally is to obtain the largest amount of plantable ground. This is important

No his Commission not only because of the account of land available for planting, but also because the price which the Commission can offer in any perticular case is governed to some extent by the account of plantable land within the estate they propose to acquire in relation to the total land in the estate. In the secund vicinity of the state of the secund of the secundary of

Forestry Commission's Planting Programme

Vear

61. In recent years the Commission's actual planting has slightly exceeded the programme for the Highlands and Islande, forming part of the National planting programme. The figuree are set out in the following table:—

1959	1	0,000 acres	10,354 acres	
1960		1,500 "	12,463 "	
1961		3,500 *	12,820 "	
1962	1	4,000 *	14,117 "	
1963	1	3,500 *	13,696 *	
1964	1	2,400 *	12,450	
	Total 7	4,900 acres	75,900 acres	
	Average _1	2,483 acres	12,650 acres	

Expected Planting Actual Planting

This achievement can be regarded as a very catiefactory accomplishment or as a reflection of the modesty of the programme laid down, depending on the point of view of the particular individual.

Review of Forestry Programme

62. The National Forestry programs has recently been reviewed by the Government. As announced by the Minister of Agriculture, Pitherice and Food in the House of Commons on 24th July, 1863* it is planned to plant 450,000 acres in the decade from 1864-179. The replacement of area # Clied by review of the Food of the Fo

ten years of fully 50,000. It is the Government's policy "to continue to concentrate on acquiring land in the upland areas, particularly in Scotland and Wales, where population is declining and where the expansion of forestry can bring considerable social and employment benefits".

Private Planting

63. So far as private planting in the Highlands and Islands is concerned, the 1959 White Paper estimated that private owners would plant a total of approximately 20,000 acres during the years 1959-63. The actual planting carried out in those five years amounted to 19,645 acres.

Employment

84. One of the demonstrable benefits from a substantial forestry programme in the Highlands and Islands is the employment which it can give. The employment provided by forestry varies according to the stage reached in the development of a forest and according to the area involved, but it would seen that at the present point of development in the Highlands, the ratio is about one person employed for every 120 acres of forest planted. Though in total numbers and wide geographical spread forestry employment in the Highlands and Islands cannot as yet compare with the 9,561 employed in agriculture (not taking account of employment in services ancillary to agriculture), it is particularly beneficial because it is often located in areas suffering from depopulation and a general decline in community life: in its geographical incidence, the employment is sometimes provided in areas where otherwise there would be no opportunities for employment particularly as the Commission now employ workers from places up to about one hour's travel from the work. The Commission normally allow one of the daily journeys either in the morning or at night to take place within the Commission's time, while the other takes place in the workers' time. The employment is, accordingly, of a kind which can, if necessary, be fitted into the agricultural activities of profters. At the end of September 1963, the Forestry Commission employed 1,779 full-time (including close on 200 crofters) and 28 part-time workers. Employment given by timber merchants and contractors amounted to between 200 and 300, and about 100 men respectively. The Forestry Commission employment in the Highlands represents 46 per cent of their Scottish employment total. Fuller details of employment in agriculture and forestry (and anoillary occupations) in the Highlands and Islands are shown in Appendix D. Despite the continuing new planting programme, the numbers employed

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years although there was no increase of 70 in 1988/83. There are various reasons for this downsends trend. Increased efficiency with increasing publication of pisco-work has been one of the main contribution of the control of the property of partial public property of the property of partial public property of the property of the public property of the

Social Planting

In 1955 the Government authorised the Forestry Commission to undertake in the crofting areas a special programme of planting on social grounds even if it meant in some cases planting on land which would give a smaller return than was usually expected. A planting programme of 25,000 to 35,000 acres was provided for in 1955. the zone specified (roughly the Wastern, crofting areas of the mainland, including Skye and Mull) some 35,234 acres have been planted by 30th September, 1963 of which, however, 22,128 acres were planted on ground already acquired before 1955. It would seem that the distinction between the ordinary planting of the Forestry Commission and the so-called 'special' planting under this programme has tended to lose some of its significance. This is because the Forestry Commission have, as a result of research in tree planting on poorer. exposed and peaty soils, been able to undertake planting on land and in situations which, even ten years ago, they would not have regarded as reasonable planting risks. They would therefore regard planting on these poorer sites, in the special planting zone, rather as the lower end of their normal planting scals (at this lower end the sconomics, they have explained, have become progressively doubtful) . The Commission are continuing research and experiment in planting on poorer, exposed and peaty soils - in the Northern Highlands they are. for example, undertaking trials at Fiag, Lybster and Syre (in each of these areas planting is proceeding at the rate of 50 to 100 acres per annum).

Rural Development Surveys

66. It is against the background set out in the foregoing paragraphs that when made our assessments and tried to reach conclusions. The first question we have had to eak ourselves is whether the present amount of freesty in the Highlands and Islands conseittutes the best land use in the sense of our definition in paragraph. To can be said at the outset that in terms of the availability of land physically suitable for tree planting, the Highlands of the forest paragraph community and the consent one. On the basis of the Rural Development Surveys (see Appendix B) it would seem that there are well over 1,000,000 acree of plantable land in the Highlands, of which on current standards about 500,000 would be 'cleared' from agriculture so that bearing in mind the increasing amount of regenerative planting of cut-over woodland, a twenty year programme of at least 20,000 acres per annum of planting by the Forestry Commission (in addition to continuing private planting on something like the present scale) would seem to be well within the bounds of physical possibilities. There are, however, other factors beyond simple physical suitability to be taken into account. take the view that the precent practice of not planting arable ground ie the right one in Highland conditions. The amount of good arable ground is too limited for tree planting on it to constitute a good land use on any standards. Again, some of the plantable land is to be found on the common grazings of crofters and others. These grazings form an integral part of the agricultural management, and while we are esticfied that a good deal more than the very limited amount so far made available could be sarmarked for forestry to the benefit of the crofting communities concerned, there are limits to the process. In certain parts of the Highlands, such as North-West Sutherland, the amount of land of reasonable quality is so limited that if it is taken for forestry this could only be at the cost of near extinction of the agriculture. The converse is true. Detailed investigations of the potentialities of the Parish of Assynt and of other parts of North-West Sutherland by the Group have brought out the dilemma very clearly. In the Parish of Aseynt with a total area of 119,000 acres it was found that even at the cost of virtually extinguishing the agricultural use of the available better land only come 3.339 acres could be secured for forestry, giving a net additional employment of 7 men. Much of the land in question is crofting land, which would, in itself, create difficulties for any attempt to recume substantial parte fit for forestry. On the basis of a compromise between agriculture and forestry only 2,100 acres could be cleared for forestry, with an employment potential of some 5 men. The Melnees/Loch Loyal/Strathnaver area of North Sutherland was similarly examined. Some 3,400 acree were classified as plantable for forestry, with an employment potential of 7 men, but at some cost to the sheep farming carried on. In neither of these (or other) cases in this part of the Highlands were the proprietors willing to dispose of the land for forestry, sporting interests being involved as well as the agricultural considerations mentioned. On the other hand, experience with the Strathoykell development (see Appendix F) has chown that in suitable circumstances very considerable areas can be allocated to forestry without appreciable effect on the stock carried and the agricultural employment provided.

Planting Target

87. It is, therefore, in a matter of this kind difficult to be precise in estimates, and any decision as to a particular level of forestry must be, to some extent, an arbitrary one. We are, however. convinced that a programme of afforestation by the Forestry Commission of at least 20,000 acres per annum, in addition to private planting at a rate of about 3,000 acres per annum, can be fully justified, and, provided that known techniques of improving grazing lands were applied on a greater scale, the inroads into agriculture would not be excessive. Given the right procedures for acquisition (to which we refer later) there is no reason why such a programme should not be sustained for a considerable number of years shead. without great detriment to masteral agriculture, and with substantial benefits by way of employment, both in total and in the variety of jobs provided, and in housing and other social services. Again, given the right procedures, which we discuss later, we think that it should be possible for the Forestry Commission to improve on their acquisitions so that the programme would include sufficient better quality land to make the operation reasonably economic as a whole, The development of the pulp industry (and other timber using industries which might settle in the Highlande) should of course contribute to this end, though transport costs are obviously important: in this connection, the rates to be charged on the new vehicle carrying ferries should be fixed with such considerations in mind.

68. We have given careful consideration to the question whether continued provision should be made for 'special planting' in the crofting areas. It is unfortunate that this has failed to develop as envisaged, but we feel that, whether the problem is to be regarded se one of 'epecial planting' or as part of the main forestry programme, the underlying objective should be sustained. The Forestry Commission naturally look to areas of greater suitability for planting than are generally to be found in those districts where there are declining crofting communities - mainly along the Western and North-Western Scaboard including the Outer and Inner Hebrides. Nevertheless, on social grounds, these areas should be given special consideration, and whether plantings in these areas should be regarded as 'epecial' or merely included as representing the lower end of a wide range of economics in planting is perhaps a secondary issue. If the present procedure for acquisition is to be retained. we would recommend that a programme of special planting in these crofting areas should be separately provided and, to ensure an adequate approach, there should be separate financial accounting of such operations, within the Forestry Fund. On the other hand, if the changes in procedure for acquisition and reconciliation of agriculture and forestry interests which we suggest later in this

section are accepted, and give the standards which we are assured by the Forestry Commission are currently being applied, this particular problem should not arise.

Highland Planting - Geographical Distribution

60. Apart from the question of the total amount of planting in the Highlands, we have also considered whether there are areas in which too much land has been already afforested and conversely and out. Figures setting out the areas of the counties, and the area of land taken up for forestry (plantable or yet to be planted) are set of out balow =

County	Total Acreage	at 30.9.63	Percentage of land planted or to be planted
Argyll	1,990,521	195,100	9.8%
Caithness	438,926	3,364	0.8%
Inverness	2,695,094	222,771	8.2%
0rkney	240,848	-	-
Ross & Cronarty	1,977,254	111,278	5.6%
Suthsrland	1,297,820	41,926	3.25
Zetland	352,337	-	-
	8,992,800	574,439	

N.B. It is estimated that an additional 1,000,000 acres are suitable for planting.

Is will be seen that forestry is most heavily concentrated in Argyl with inverses also chowing a substantial area of forest. It cannot be said that forestry, even in Argyll, is anywhere near 'saturation point'. One has only to compare the degree of affrostation there some 100,000 acres of forest out of a total acreage of 740,000) to gain some sensure of the leaves that still remains. (In some sensor of course, other difficulties besides the evaliability of land physically saturable for planting have not reached. (districts) on the other hand the less fertile and more exposed areas along the vest coast of the Maintain and in the Islands have yielded little to forestry. Maits that total acreage over likely to be planted in the little for of Argyll, inverses and Statistical, there is no the property of Argyll inverses and Statistical, there is no the property of Argyll inverses and Statistical, there is, we

believe, scope for developments on a moderate scale. The case for this is not based merely on forestry considerations; such forestry development, even on a moderate scale, can be, and has been, crucial for the maintenance of sound local communities.

Planting in Smaller Blocks

70. This brings us to another aspect of forestry, i.e. the degree of flexibility which the Forestry Commission allow themselves regarding the size of individual plantation blocks. For initial planting, we understand that the Commission generally require a block of not less than 500 acres or an equivalent group of smaller blocks within reasonable radiue. For 'satellite' blocks much lower areas are acceptable. It is undoubtedly more convenient and economical to develop forestry blocks in reasonable proximity to each other and particularly if there is a large plantation round which smaller blocks can be developed. Such a policy also bringe other benefits. For example, with larger planting areas, it is easier to establish and sustain sizeable communities. We recognise that the Forestry Commission, since they are generally expected to operate as a commercial organisation having regard mainly but not exclusively to economic considerations, are to a large extent bound to develop their plantings in this way. Nevertheless, we feel that the policy should not be applied without substantial qualifications on both social and wider economic grounds. The greater flexibility would increase the contribution which forestry can make and does make to agriculture and amenity and to maintenance of crofting communities in the remoter areas. In terms of both shelter and 'mixed' rural economy there is much to be said for a considerable expansion of this kind of planting, even though the total effect on employment may be limited. We accordingly recommend that the Forestry Commission and the Department should give epecial attention to the question of making surveys of areas with a view to opening up possibilities of smaller scale planting, both in areas in which the Commission are already operating and in fresh areas.

Government Assistance for Private Planting

71. As to private planting, though this does not force a major part of the cold frostry operation in the Highlands, it does make a significant contribution. At present, downsteam assistance and the state of the st

with an annual measurement grant. Apart from dedication grants there is a grant of 22.4% per arer for planting woodlands which, although the set of the se

Publicity

72. We doubt whether any adjustment of these grants would result in a spectacular or even major increase in the amount of private tree planting in the Highlands, since this is necessarily governed either by the requirements of good estate management or by the personal preferences of the individual landowner. On the whole our expectation is the amount of new private planting will tend to decline, but it seems appropriate to base our calculations on a continuance of private planting at something like 3,000 acres per annum. been suggested that there are landowners who are prevented from embarking on forestry development through lack of capital, and that this is not met by the existing grant arrangements. The Forestry Commission have, in fact, recognised this particular difficulty and they have arrangements under which the Commission will acquire from such landowners land for planting on long lease, the land (with the trees) to be re-purchased at appropriate prices by the landowner. If the landowner decides to buy back the plantation he must agree to enter into a dedication agreement. Though the area of land in the Eighlands dedicated for planting continues to increase, we feel that the dedication and other grant arrangements should be more widely accented. In so far as there is insufficient knowledge and understanding of what is involved, suitable further publicity should help, and we recommend that this should be vigorouely pursued by the Commission and other hodies concerned. Further possibilities of private planting could, we think, be opened up if tenant farmers could be enabled and encouraged to undertake planting. The chief obstacle (apart from general distrust of forestry) is that such planting is not an eligible item for compensation as a tenant's improvement under existing rules. We recommend that this exclusion should be removed and that tenant farmers should be eligible for the grant of #22.4/- per acre of planting, subject to suitable safeguard of the landlord's interest.

Acquisition of Land

We have given a great deal of thought to the arrangements for acquisition of land for forestry and to the handling of those parts of estates acquired for forestry but remaining in agriculture. The Forestry Commission rely wholly on voluntary negotiation for the acquisition of forestry land. Though they have statutory power to acquire land compulsorily this has, we understand, hardly ever been There are various reasons for this. The procedure laid down is somewhat complicated; there has been a fear that landowners generally would be less inclined to negotiate with the Forestry Commission if compulsory powers were being exercised on any scale: there is the possible difficulty of the Commission's being unable to demonstrate that a particular piece of land is essential to their requirements (rather than some other pieces of land); there is the fact that, in total at any rate, the Forestry Commission have been able to acquire as much land as they have needed to carry out the National programmes laid down. We appreciate the weight of these circumstances, but so far as the Highlands are concerned we have to make the following points. First, though the Forestry Commission have so far been able to make up their total requirements by voluntary acquisition, their experience in acquiring land in the Highlands has been somewhat mixed and, even with good years, little margin beyond the normal reserve has been secured. We think it particularly important that in view of the varying conditions from one part of the area to another, the reserve of land for planting in the Highlands should be maintained at as high a level as is reasonably possible. Second, there is the problem that in the Highlands the Forestry Commission very often have to compete not with agricultural offers but with offers by persons interested in the land for sport and amenity rather than agriculture. With such offers, commercial considerations play a smaller part, and even if the Commission were enabled to increase their general level of prices, they are bound to fail in competition with these clasees of buyers. Third, the present arrangements tend. in our view, to lead to development of forestry around major acquisitions or in grouped areas, whereas a still wider geographical distribution of planted areas is desirable if forestry is to make a more effective contribution to the Highland economy and social stabilisation in the crofting districts. Fourth, there is inevitably a reluctance on the part of tenant farmers to give up part of their land for forestry. They feel that the benefit is going mainly or entirely to the landlord. There is scope, we consider, for educating farmers to the advantages which properly planned forestry can bring to agriculture and to the wider public interest involved in an adequate forestry programme, and in paragraph 72 we have suggested specific changes in procedures to

enable and persuade tenant farmers to undertake planting. There is, however, likely to be a continuing opposition and misunderstanding by some tenant farmers.

Compulsory Acquisition

74. As already explained, the Forestry Commission have not resorted to their compulsory powers of acquisition, and we recognise the force of the considerations which have led them to adopt this policy. We have, however, had to consider whether any change is required to meet Highland needs as we foresee them. Two points are clear. First, it is with little margin to spare that enough land of the right quality has been obtained by the Commission to meet the planting targets of recent years, and we recommend that the annual rate of planting by the Forestry Commission should be increased to at less t 20,000 acres. Second, there has been virtually total failure to fulfil the expectations of the programme of social planting in the weetern crofting areas where, we suggest, forestry is in some cases the best, if not the only means, of acomomic and social rescue and rehabilitation, and where, in our experience, there is a good deal of grossly under-used land capable of agricultural/forestry development. These two aspects are, in our view, to be considered together. Had we been concerned only with the global total of acquisitions by the Commission we might have recommended (though we should have done so with some hesitation), that the present voluntary arrangemente be left to run at least until there was clear evidence of their inadequacy. But we cannot ignore the urgency of the need for forestry development in the crofting areas, and the clear evidence of the failure of the present acquisition arrangements in these areas. In any case there seems little doubt that an increased planting programme on the scals we recommend as necessary could not be carried through on the present basis of voluntary acquisition. We therefore recommend that the Secretary of State for Scotland should use his powers of compulsory acquisition in the Highlands and Islands as necessary to ensure the fulfilment of the total planting targets and to bring into productive use under-used land, particularly in areas of social and economic needs. We are, however, assured that the existing procedure for compulsory acquisition for planting by the Forestry Commission is too narrowly based and too cumbersome to become a fully effective instrument for the programme we envisage. In particular, it is at present related essentially to forestry requirements and would not seem to cover the acquisition of land for combined agricultural/forestry development. We further recommend therefore that the statutory procedure for compulsory acquisition of land for forestry be reviewed and amended as necessary to make it more flexible and less narrowly based.

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We have described, in paragraph 60, the current arrangements for 'clearing' areas of land for forestry purposes, and the policy applied to the subsequent handling of the land, after acquisition and allocation for forestry. We recognise that these arrangements have proved effective, within the limits of the current policies, and that the Department of Agriculture and the Forestry Commission have acquired a high degree of expertise in dealing with the problems involved. We do not consider, however, that the present arrangements are the best in the circumstances of the Highlands, and cortainly not designed to meet the situation arising from the substantially increased programme of afforestation which we recommend. Apart from the increased scale of forestry recommended, we feel that a fresh approach by the State is required to the task of acquisition and management of land acquired for afforestation, with agricultural and other potentialities. Generally speaking in the Highlands. estates are not to be regarded solely as agricultural units, or solely as forestry units or solely as sporting unite. There is usually a gradation of land quality and type from fully sheltered low lying arable land through low quality exposed soil at high altitude. to bare, hard tous. Such estates, or natural local units, require a comprehensive approach and a unified management. As things are, the question of agriculture or forestry on any piece of land proposed for acquisition tends, in our view, to become an object of opposed views as between agriculture and forestry, and the resultant decision - a compromise between the two - not necessarily the best compromise in relation to a proper plan of management for the estate. If this difficulty is to be overcome, there would appear to be some case for a more closely integrated consideration of forestry acquisition proposals. What is required io, at least, an arrangement by which whole estates (or large sections of extensive estates) would be purchased by the Secretary of State for Scotland, perhaps from a Land Fund which would not, like the Forestry Fund, be confined primarily to forestry acquisitions. After acquisition of the cetate, the process (which should be a continuing one) of planning its future nattern, including the possibilities of forestry, agriculture, eport and recreational activities (if appropriate) would be undertaken comprehensively.

Agricultural Remnants

This point is further illustrated by the arrangements for managing the agricultural remmants of forestry acquisitions. present the Forestry Commission proceed with their forestry as a separate, self-contained operation, while the Department of Agriculture and Fisheries for Scotland are left to develop the agricultural remnants into a reasonable economic unit as far as

possible. Thereafter, under Government policy, the remnant is sold off (though in many cases where the land is tenanted, disposal cannot be effected or the land is sold to the sitting tenant). If there is land used only for eport (such as the higher ground) this is managed by the Forestry Commission. This situation tends to leave us with forestry becoming the governor of the future layout and management of the particular estate. Thus there have been complaints regarding the 'dieregard' by the Forestry Commission of the sporting and conservation requirements for the higher ground, while there may be a risk at the other end of not very satisfactory agricultural units being thrown on to the market. If the State is to embark on this kind of acquisition and in the increased scale we envisage, and looking to the needs and conditions of the Highlands, it eeems wrong that the opportunity should not be taken to develop and operate these Estates comprehensively and on principles of good estate management. There is the further point that in some cases the 'remnant' agricultural units are suitable for running by a working tenant-farmer (see paragraph 46). Whether this is to be done by closer integration between the Department of Agriculture and Fisheries for Scotland and the Forestry Commission or by a more fundamental change involving the development of a Lands Organisation is a matter to which further thought should be given. The importance of general ecological considerations should also not be overlocked and in any changes that may be made, provision should be made for consultation on these aspects. Forestry Communities

77. As will be seen from Appendix E dealing with conditions in Mull, the Forestry Commission have experienced considerable difficulty in securing labour to carry out their planting programme there. This is an extreme example of a difficulty which they have encountered and continue to encounter in the remoter areas. In the earlier stages of their post-war planting programmes, the Commission followed a policy of providing accommodation for their workers in close proximity to the planting sites. This resulted in small isolated groups of houses which did not prove attractive to forestry workers, particularly employees with young families. The Commission's current policy is, however, to secure the accommodation of their workers either in existing communities or in larger, centralised new communities. This produces the problem of transporting workers daily to the planting sites, but we think it is the right approach and in line with the wider trend towards the development of sizeable communities capable of sustaining a reasonable standard of basic services. It is accordingly the Commission's general policy that houses for forestry workers should be provided by local authorities as part of the general housing provision for the areas concerned.

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There are undoubted advantages in bringing forestry worker into the community by other than tied houses, but this practice does mean that the pace of forestry house provision depends on the attitudes and capacities of the particular local authorities who, in any case, have to give weight to other competing housing Calism. We fivel that the compart of the competing could be the five that the compart of the compart of the competing could not leave the analysis of the compart of the c

Conditions of Employment 78. It has been represented to us from time to time that the

earnings and conditions of employment for forestry workers are less attractive than those prevailing in competitive employment available in the districts concerned, in particular agricultural employments. We have gone into this question carefully, and details of the comparative earnings in forestry and in agriculture are set out in Ammendix G. Though an improvement in wages would tend to ease the Commission's recruitment problems, taking all the conditions of employment, including earnings, into account, we do not consider that forestry can be said to be at any real disadvantage, so far as actual earnings are concerned. It is possible that the incidental benefits of employment with the Forestry Commission are insufficiently understood and the Commission might usefully, in our view, consider special publicity. A better assurance of reasonable housing accoumodation would also, we suggest, help in recruitment. Other factors which must be taken into account, however, are the stability of the forestry employment (with its year by year employment), the pension provisions attaching to such employment, and the opportunities for higher earnings through piece work. We recommend that the Forestry Commission should continue and develop, as far as possible, their policy of doing the maximum amount of work on piece work rates. The standard of housing accommodation for forestry workers is good, but, in the case of houses in remoter areas, we feel that the Commission Should, even more than at present, vary its policy of relating rents of forestry houses to the general prevailing levels of local authority rents. Where houses have to be provided in isolated and remote areas, the addition of a forest holding provides a strong attraction. We understand that where a forest holding is available

the Commission have succeeded in finding a worker to occupy the house, even where this is in a remote area.

Contractual Arrangements

The Forestry Commission's practice of negotiating the sale of standing timber to private timber merchante ie one about which some of our members have expressed misgivinge. There has undoubtedly been considerable employment by timber merchants of migrant labour teams, not involving the settlement of families in the areas concerned. If this were to prevail, it would be quite contrary to one of the purposes for which the forestry programme was designed, viz. the arresting of depopulation by keeping and bringing workers, with their families, into the Highlands. And this is a danger about which we feel there should be the utmost vigilance. We have been assured by the Commission, however, that they have been conscious of this risk and that it is their policy, as the forests develop, to ensure that contracts with timber merchants are on the basis that gives the merchant a prospect of long-term continuity. This becomes more and more possible as the forests develop. This should enable and encourage the merchants to employ a settled labour force in the particular forests, and already some workers have been provided with houses and settled with their families. The Commission consult with local authorities, if necessary, about the provision of such houses. The Commission explain that it is a necessary part of their policy to encourage and support a healthy home-grown timber industry, and, for the future, their aim of long-term continuity of operation by individual merchants in their contract areas should be increasingly realised. We accept these assurances, but we cannot too much emphasise the importance of the retention and eettlement of families as one of the essential requirements of the State forestry programme. Where this is not being effectively achieved by the use of timber merchante there should be, in our view, no hesitation by the Commission in taking on the work themselves. Indeed, we go further, and recommend that unless the use of timber merchants in the Highlands leade to cettled employment, the practice is a disservice to Highland development and should be discontinued.

Shelter Planting

80. On the question of shelter planting, we have noted the Forestry Commession's awarenees of the general advantages to be derived. We recognize the difficulty in the way of the Commission's centilishing large numbers of small shelter blocks in districts where there is not already a substantial forest round which these exaller areas can be operated. It must, sorcover, be accepted that in such

circumstances the case for skelter blocks or belt planting is to a large extent an agricultural one. And experience has shown that the private agriculturies fails to be attracted by the long-term advantages of skelter belt planting. The research that is being advantages of skelter belt planting. The research that is being advantages to the skelter belt planting to the state of inconsiderable scope for shelter belt planting in the Sighenda. In this particular field also, the advantages to be gained from a closer integration of agriculture and forestry are evident.

Forestry on Croft Land

- 81. We have discussed, in paragraphs 73 and 74, questions concerning the acquisition of land for forestry. There is one special aspect of this to Which we should refer. This concerns the allocation of crofting land for forestry. The Taylor Commission obviously hoped that, because of the advantages which forestry could bring to the crofting communities, it would be possible to use substantial areas of croft land for tree planting. In fact, it has proved extremely difficult for the Commission to obtain such land and the contribution of crofters by way of land has been altogether insufficient. The reasons for this are not difficult to find. The procedures which have to be gone through before crofting land can finally be allocated for forestry are fairly complicated, involving reference to the Land Court for resumption under Section 12 of the Crofters (Scotland) Act, 1955. All this entails consultations with the crofters in the township concerned, and while the younger and more active crofters might welcome the surrender of part of the common grazings for forestry, there is generally a hard core of elderly and less active crofters who see no advantage to themselves in disturbing the status quo. Again, even though there is willingness on the part of the crofters to give up part of their grazings, a forestry project can founder over questions of compensation.
- 82. If forestry is to make headawy within the crofting area, it is desirable that croft land should be made evaluable where the need is clearly demonstrated and the effect on the crofting agriculture shown to be similard. (In new cases less of crofting land to he land by means of reclamation or regumeration schome). If we decordingly recommend that consideration should be given to the strengthening of the provisions in Section 12 (0) of the Crofters (Sectional) Act (which requires the Land Gourt to authorise recomplished crofters the Land Gourt to authorise recomplished crofters and the provisions in the crofters the consent of the smightly been obtained). This could be done, for example, by requiring the been obtained). This could be done, for example, by requiring the

Land Court not to withhold authority for resumption where the pronosal has the approval of the Crofters' Commission and the Secretary of State has certified that it is in the public interest. with this, however, it is essential that adequate inducements should be given to crofters to encourage them to accept forestry on their Common Grazings. In particular we recommend the suggestion by the Skye Crofters' Union that compensation should be given, beyond the present minimal adjustments of rent, to enable the crofters, with the aid of Improvement Grants, to reclaim and regenerate the remainder of their Grazinge so that the effects of abstraction of parts of the grazings for forestry, can be largely offset. In this connection it should be borne in mind that crofting tenure with its security and safeguards, is not dissimilar to occupation on feu, and loss of such land is not reflected in the relatively minor adjustments of rent that are applied in such circumstances. Another proposal, designed to bring croftere into active operation of forestry on common grazings, has been put forward by the Lochaber Crofters' Union. The proposal is that finance should be provided from Government sources to enable the crofters to plant substantial areas of crofters' common grazing, the crofters being provided with employment in the process. and having an assurance of whatever profits might be made on the venture. Such a development requires careful examination in its economic and legal aspects (fresh legislation would seem to be required to give the crofters the necessary authority to take over the grazings) and the Crofters' Commission are, in the first place, making a study of the issues involved and the implications of the proposals should be considered in the light of thie. mend any practical measures which might emerge from their consideration and which would facilitate the development of forcetry in crofting areas.

Educational Drive

Various questione affecting the relationship between forestry and sport, tourism, and concervation are discussed in the later sections dealing with these aspects of land use. It seems appropriate to conclude this section by re-emphasising the important part which forestry can play in any plan for Highland development. A twenty years' planting programme, at the rate of 20,000 acres per annum, taken with what has already been done and the associated activities that arise, would provide eventually equething like 3,300 jobs, many of them in areas where alternative poseibilities are practically absent. Relevant to our present enquiry, this would represent an effective and economic use of the land resource. It is difficult to think of a more rewarding means of Highland development than an imaginative and actively pursued forestry programme. This is not

merely a question of administrative provision. It requires a sustained affort of education and publishing not only by the Porestry Commission, but in schools and amongst private land-owners and fermore, and we would hope that local education authorities and holies like the scotter modelment of the provision of the prolate of the provision of the provision of the provision of the prosolution void the encouraged and and the National Parmers' Union of Solitand void the encouraged and easisted to play their full part.

Economics

66. One last comment. The comparative economics of agriculture and foresty are outvointy significant for the formulation of any programs affecting these uses of land. Such a comparison is, however, immensely complicated by the different time-cates, capital investment and trading code relationships with the present of the product of the present of th

SPORT AND PHYSICAL RECREATION (INCLUDING TOURISM)

SPORT - DEER

85. So far as land used for sport in the Highlands is concerned. early consideration must be given to deer stalking. With agriculture and forestry, deer forests constitute one of the most widespread and extensive forms of land use. Something between one-quarter and one-third of the whole Highland area is regarded as deer forests. Apart from the total area taken up for this activity, eignificance attaches to the fact that agriculture (keeping of sheep) and sport (keeping of deer) are to some extent concurrent uses. The sheep and the deer graze the same areas. Though there tend to be misconceptions and exaggerations on this subject the head of stock in either case is bound to affect the numbers and standard of the other type of stock maintained. In this respect it differs largely from forestry, which physically excludes land used for planting with no intermingling of the uses, i.e. until the trees are 20/25 years old. This applies to red deer but not necessarily ros deer.

86. One of the difficulties in reaching satisfactory conclusions about the use of land for deer stalking is the widely conflicting attitudes to this sport, quite apart from the moral attitudes. the Highlands, these are deeply rooted in the history and social conditions of the area. The fact that the lands are occupied and the sport carried on mainly by the landlords and a very limited number of persons, has given rise to antagonisms in which reason and unreason are frasly mingled. We should, therefore, in the first place state the basis on which we have made our study of this ques-

tion. 87. For the above purpose, we have kept in mind the broad

definition we have set ourselves, in paragraph 7, i.s. our essential concern is with the most effective and economic use of the land. having regard to the sericultural, industrial and social, including recreational, possibilities and all needs of the area in question. Thersfors, we do not take sides in any debats on the virtues or

iniquities of this form of sport as it has developed in the Highlands. We accept - as indeed the circumstances force us to accept - that there are many areas for which recreational use. including sport and matters associated makes it clearly the best, if not the only feasible use of the land. " Equally, we have considered. as objectively as mossible, the competitive merits, in terms of sconomy, production, employment, social well-being, etc. of recreational requirements as a form of Highland land use, with the normal alternative possibilities of agriculture, and forestry.

Survey of Deer Stalking Grounds

88. For statistics of deer forests and their use in the Highlands and Islands, we have considered the details submitted by occupiere in connection with the Agricultural Returns, and also the very consiberable and detailed information assembled by Mr. Kenneth Whitehead in his published survey of the major deer stalking grounds in Britains. As will be seen from the statistics in Appendix C. the area of deer forests, as shown from the official returns, extended in 1957 to 2,234,000 acres in 147 deer forests. Mr. Whitehead's figuree are considerably larger, the area amounting to 3,808,000 acres in 261 deer forests. The deer forests range, in altitude, from sea level. though the general minimum altitude seems to be about 1,000 ft. above sea level, the highest of them being at well over 3,000 ft. According to Mr. Whitehead, the total post-war annual kill on all foreste would seem to be about 8,000 stags and 7,000 hinds, or about 1,000 tons of venison. It would seem that Mr. Whitehead has possibly classified as Deer Forests a number of areas which are not Deer Forests in the normal classification. There are deer on sheep farms. and in the case of owner-occupiers in particular, there is a tendency for them to include in their advertisements for letting of shootings such phrasee as 'a few deer can be shot'. It might be convenient to refer to such places as 'deer shootings' rather than 'deer foreste'. Where a subject is obviously agricultural, and deer shootings a marginal aspect of the management, we suggest that the term 'deer forests' should not be used. At the extreme end of the ccale, deer on sheep farme proper should be regarded as marsudere and as such should be shot, particularly the hinds who tend to heft themselves on the ground. This would leave the term 'deer foresta' to cover subjects (generally of a fair size) on which the management of deer

Renefits from Deer Stelking

89. It might be convenient to consider the benefits deriving from deer stalking and thereafter to look at the disadvantages. The benefits are fairly elear-

plays an appreciable part in the total management.

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(a) Employment - Though employment in this connection has gone down, the management of deer forests and the pursuit of deer etill provide a useful measure of employment, some of it in conditions in which there is literally no other employment outlet.

FDeer Stelking in Soutlend by G. Keeneth Whiteheed - published in 1900 by Hollie end Carter

- Admittedly, the employment is seasonal, but under normal management such employment fits in with the control of fishings on the same estate and a good deal of maintenance (e.g. of buildings required for the deer sport) is undertaken throughout the year.
- (b) Notice Conservation generally this form of Land use involves the entiname of this rebame of the 'natural' use of the land, and provided there is proper management the objectives, good nature conservation, could be achieved. On the other hand, over-stocking with dear, with all its concentrant problems of destruction of herbage, areauting stor, one give rise to erosion, and irreversible run-down of the vegetation.
- On the property of the propert

"Deer and the Use of Deer Forests

The decrease in the greekland area led to investigations into the possibilities of the deer forests as rough graings. A survey was made in 1940 by members of the Scottish Land Court at the request of the Scottish Land Court at the request of the Scottish Land Date and court at the request of the Scottish court of the second of the second court of the second of the Scottish actimated to 279,000 acres; persuament stocking was practicable on 898,500 acres, and sunner stocking away practicable on 898,500 acres, and sunner stocking away practicable on cattle could be kept persuamently on deer forests, while a further 39,300 alsess and 5,000 acres to rest, and the second through the second court of the second court of the second court of the second through the second court of the

The achievement of such an increase depended upon the reduction of numbers of deer, and upon heather burning. drainage operations, and to some extent building. Remorts indicated that the maximum carrying capacity, given the improvements mentioned, might be even greater. The Agricultural Executive Committees in the Highlands strove to have the fullest use made of these deer forest grazings. By 1944 the Secretary of State had taken possession of eight forests, or parts of forests, under Defencs Regulation 51, and Glen Etive forest had been gifted to the nation by Lt. Col. A.E.D. Anderson, D.S.O., to provide facilities for experiment in the improvement of deer forest land in the raising of breeding stocks of hardy sheep and cattle suitable to the environment. On all deer forests in June 1945, there were 4,230 cattle and 148,179 sheep, increases of 166 per cent and 194 per cent respectively, over the 1939 figures.

The reduction of the deer population was preceded by a census of stags, hinds and calves in 1040. A Beer Control Officer for Scotland had been appointed, and a meeting of deer forest owners in Ediburgh in April 1940 had discussed a scheme for the disposal of vention as a not inconsiderable contribution to the nation's tood supply.

It must be apprecised that the foregoing assessment and the great increase in the cattle end sheep certical on the deer forests during the years 1940-40 were related to war-time conditions and to the nead for all-out agricultural production. No doubt bits as the nead on the conditions. Nevertheless, these results are indicative of the agricultural potential.

(d) So alternative use - in many cases there is really no alternative use for the land in question. This fact must be clearly recognised. One can refer to very large does forestle, extending to MynOm cares and nore, on which me possibilities vegetation, altitude and other natural factors. Only a manority of deer forests are, in fact, fit to carry a permanent stock of sheep and as this is a nature consideration in lattetude of the control of the control of the control of the control of the latter of the cart collection of the control of the being taken up for regarded upon respictable.

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Disadvantages of Deer Stalking 90. This would appear to include:-

(a) Effects on adjoining land
(i) From marauding. It can be argued that marauding is a

mark of inefficient deer management, and to a wery large either this is true. On the other hand, we are concerned to deal with the situation as it is end is likely to be for some years shead, and nor with ideal conditions. In any case, even with the most effective management and control, there will no chubic always be a certain sount of arsund-

thers will no doubt always be a certain amount of marsuding in difficult seasons.

(ii) By encouraging the spread of other pests. These include foxes, hoodic crows etc. In certain conditions also, there is a possible spread of infection of sheep

through rank heather.

(iii) By imposing limits on drainage, access and fencing.
There is also generally insufficient burning of heather
on deer forests and this is possibly one reason for the

spread of pests.

(iv) By damage to woodlands. Unless there is adequate fencing round the woodland in the early years of growth,

heavy damage can be caused by deer.

(b) Effects in the deer forest itself -

(i) Limitation or exclusion of cattle or sheep stock. This is, as already mentioned, probably exaggerated in some cases. On the other hand, in some deer forests the effect on agriculture has been unfortunate. (ii) Prevention or limitation of tree planting because of

(ii) Prevention of Initiation of the dispossible detriment to the shootings. One of the discouragements is the need for very expensive funcing. (iii) Prevention or limitation of access by the public either to the deer forest itself or through it to places of scenic beauty. During the shooting season there is, of

course, an almost complete embarge on public access. There is, moreover, during the rest of the year very often strong discouragement. (iv) Prevention or limitation of proper drainage and management. It sometimes happens that an adjoining occupier is

ment. It sometimes happens that a drainage scheme because prevented from proceeding with a drainage scheme because its completion would require works on the deer forest itself.

(v) Encouragement of natural pests (already mentioned).

 (vi) Deterioration of herbage. At its worst, this presents itself as erosion, where there is over-stocking.

itself as erosion, where there is over-stocking.

(vii) In its present form deer sport is limited to very few
people, and does not make any positive contribution to the

development of the economy

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(viii) Employment is tending to become less. Moreover, spare from the housing of head stalkers, the houses provided for stalkers are generally extressly remote and this sakes the employment less attractive. Against its a head stalker and the stalkers of the stalkers of the stalkers and the stalkers of the relatively low employment from deer good locaver, so far as general to only a few weeks in the essent, and in the stalkers of the stalkers of the stalkers of the stalkers.

9). In assessing the reletive benefits and disadvantages of deep peri as a form of lend use in the Highlands and Islands, we have been concerned essentially with the position as it is now and is likely to be in the foreceastle future. On this sensement, we caust accept continuouse of wide waters are supported to the sensement of the world as the suggestions to be the end. Against a suggestions to but end. Again, the employment provided by stalking is not likely to increase unless the economic return of the end product (venicon) is raised; or unless, by increasing the numbers engaged in the product product of the portion of the product of the product of the product of the sport can be applied, on a return of the encade charges for the sport can be applied, on a

Examples of Deer Forests

92. We have considered in more detail everal estates in the Highlands on which there are a number of deer forests. These forests are associated with hill fame and though come are let for sporting purposes the land use pattern is one of combined interest with sheep and cattle from famers of confrs in the state of the

State A (taland) Extent - 15,000 acres of which 100 is explicated - 2,500 rest at the highest point. The farm on the Estate at present carries a evode of 3,500 Blackface eves and 100 breeding cattle. Farm staff employed color of 2,500 Blackface eves and 100 breeding cattle. The staff employed color vol. - 6,500. Annual production and of cattle - 25,405. Total - 215,505. An increase in forestry to 1,500 cares is proposed when the sheep stock will be reduced to 3,200 eves but the labour force employed will be the color of the cattle - 25,405. Total - 215,505. An increase in forestry to 1,500 cares is proposed when the sheep stock will be reduced to 3,200 eves but the labour force employed will be the cattle of 1,500 cares are supported with the cattle of the deer forest were let and developed fully as a sporture evulce the number of deer

killed would be restricted to 20 stags and 20 hinds. This would bring in a revenue of shout £250 but argames in the form of Keepre's wages and other maintenance expenditure would exceed £700 leaving a sefection of £500 per sames. The increased stock of deep up provide and mainteain a kill of 20 stags and 20 hinds on the pre-provide and mainteain a kill of 20 stags and 20 hinds on the pre-provide hirelds.

State 8 (Miniman) is stunted in predominantly deer forest country. The soul acreage of this forest is 36,560 and restal 2013. Present stocking 14,500 ewes and 130 breeding ones, owned by seas 20 orderes and 8 tenuis fauntrs. Sporting instituted that the season of the

Management of Deer Forests

93. From the examination of these actual or typical examples we should be able to set down certain general principles and pursue one or two ideas. It has been pointed out that uses like forestry and hydro-electricity (involving the flooding of land for reservoirs) affect mainly the low-lying ground, leaving a good deal of the higher land untouched. It might seem that this should offer considerable scope for deer sport on these higher areas but, unfortunately, there is competition for the low-lying ground for winter feeding. It has been reckoned that for every acre below, say, 1,500 feet abstracted from agriculture some 10 acres above are rendered of little value for normal donestic stock. We think that the possibility of finding a fuller use for the higher ground should be specially followed up. The possibility of 'farming' deer, with a measure of manual feeding, should not be excluded. In any case, where forestry is being developed and where the primary use of the surplus land should be for sport, care should be taken to ensure that there is access to winter feeding ground and that there is enough of the latter to support a reasonable deer stock. This leads us to a further point, namely when deer forests are being disposed of, they should not be sold without wintering ground for the deer stock (or at least without ensuring that such wintering ground can be provided). This is of particular relevance to acquisitions of large tracts of land by the Forestry Commission which, in some cases, may leave remnants of deer forest incapable of proper management. We suggest that in such

- cases the Forestry Commission should acquire the whole estate and that it should continue to be managed as a unit. Also that the shootings and fishings should not be leased to the sellers.
- 94. The limitation of the enjoyment of deer sport to a small number of people having access to private estates has led to thesificient recreational use being made of these areas of lend. We feel that on all grounds economic and social it is desirable that the such facilities should be available to a wider public, including perticular particular to the access to deer sport, on a flexible basis, as is evailable in the cases of deer sport, on a flexible basis, as is evailable in the cases of deer sport, on a flexible basis, as is evailable in the cases of the sport, on a flexible basis, as is evailable in the cases of the sport, on a flexible basis, as is evailable in the cases of the sport, on a flexible basis, as is evailable in the cases of the sport, on a flexible basis, as is evailable in the cases to deer sport, on a flexible basis, as it evailable in the case of the sport, on a flexible basis, as it evailable in the sport of the spo
- 85. Conversely, acquisitions for forestry should not be considered in the narrower context of tree planting, but should be considered as estates to be acquired for combined purposes of agriculture, forestry, sport and recreation (we return to this point later).

Marauding Deer

- 60. We have sentioned our view that in some cases 'deer shooting's are really marginal adjunctes of cheep ferming neterprises. In such cases, we think serious consideration should be given to the destruction of the control in trans where a better balance of dear the control of the contro
 - (a) To distinguish the areas which are essentially and primerily deer forests from those which are primarily and essentially agricultural lands and to deal with the deer situation accordingly;
 (b) To one up selected deer forests to a wider range of public
 - (b) To open up selected deer forests to a wider range of public with benefit to bourism;
 (c) To find the best means of securing sufficient, but not more
 - than sufficient, winter feed for the deer stock; and
 (d) To ensure reasonable access to points of scenic beauty for
 members of the public, without undus interference with deer
 month. (This might neam in some cases clearance of deer from

SPORT - FISHING

67. No-one can have say doubt as to the importance of salmon and trout fillshire in the Highlands where these natural resources are right) provided they after development potential for tearism and call and employment value. The Panch have accordingly substituted vises to the Committee on Section Salma and Trout Fisheries, and the following perkarphic largely reproduce the considerations set out.

Salmon

98. Salmon has a high commercial value and also a scarcity value on and the availability of salmon angling has a very important role for the tourist industry in the Highlands and fainnds. This benefit to income and employment is of expected importance and the full power interest of the salmon rod fishing as a tourist struction should be developed and andse variables to value to set the lowest practicable cost. A harmonious relationship at local level between fisheries proprietors, landicate and those with an interest in the development of the courist industry is essential and we recomend the setting up of referried leads anothery to bring together all the interests com-

Trout

on. Similarly, we consider that there is a great scope for separation of troat fishing, particularly on loshs, as a valuable asset to the fourist industry. The existence of statutory protection provides an incentive to owners of statutor protection provides an incentive to owners of statutor in the respective fitters. Because of the risk of damage to stocks by indiscriminates and uncontrolled fishing there is little hope of this sesset being fully realised because inevitably it tends to restrict expenditure on manticance and improvement of stocks and on the provision of the statutory provision governing preservation, proteotion and control of troat fishings with means of enforcement and we recommend that a scheme should be introduced for voluntary registration of troat fishers with would involve obligations and responsabilities

Statutory Protection

100. It is further recommended that the Secretary of State for Scotland's general superintendence of salmon fisheries in Scotland

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should be extended to include trust fishing on inland search the statutory protection of sakem and regulation of sakem of sakem fishing should comtime and that stallar protection should be afforded to regulation; that the primary administration of salmon rivers and/or registered trust fisheries (which should also be subject to regulation; that the primary administration of salmon rivers and/or registered trust fisheries (both river and look) should be vested in district fishery boards; and that each district board should include sleeded representatives of various interests including a representative (b) appointed by the Severetary of State for Southand, following sowers: the district fishery beard should have the following sowers:

- (a) To make Byelaws and/or Regulations (which would be subject to approval by the Sheriff(s) of the county(ies) concerned) for the protection and regulation of salmon and registered trout fisheries within its district.
- (b) To employ a water bailiff (or bailiffs) to secure observation of the statutory protection measures and the board's Byelaws or Regulations. Such officials should have limited powers of search and arrest similar to these now held by bailiffs supointed by district salaon fishery beards.
- (c) To prosecute (with the concurrence of the Procurator Fiscal) cases of poaching, fishing by illegal means or chring close season and breaches of its Byelaws and/or Regulations.
- (d) To levy rates on owners of salmon and registered trout fisheries within its district (possibly with provision for the local assessor to determine the rateable values, if not otherwise agreed).
- (e) To carry out measures for the general improvement of the fisheries in its district, e.g. restocking, the reserval of obstructions to open up new spanning grounds etc. (This power should be nade subject to an appropriate procedure to enable interested parties to lodge objections, for hearing of these store and for warrding commenction as supropriate.)

Research

101. Although much research has already been undertaken into effects of hydro-electric development on freshwater fisheries, it is further research into the mixing of waters and variation in water levels in particular. Very little evidence is available of the habit of stains and trust and research into the shot greater.

perhaps ideally throughout the length of any river that may be available for this purpose, should be understaken. The results of the research should be made available to the relevant authorities commend with fishery protection and the development as well as to the organizations responsible for hydro-electric generation and water authorities generally.

Compulsory Acquisition of Fishing Rights

100. In view of the importance of salmon and trout fishing to the bouriest industry in the Highlands its further recommended that, as an ultimate sanction, the Secretary of Sette for Scotland should have powers for compulsory acquisition of fishing rights (the industry that lead of secess for restorted in the restort of the being established by public inquiry that leak of access for visitors to the fishings in question is retarding development and management of my fishing rights so countred might suproprietably be entrusted to district filtery boards.

Forestry Commission's Fishing Rights

103. A further point we should make concerns the fishings on land captired by the Preserty Commission. We understend that in analy cases the fishings have been let for long terms, to the seller or, more recently, to magling clubs. We recommend that the former practice should be reviewed, and that wherever possible such fishing should be retained in the Secretary of State for Soutiand's hands for disposal in the best interests of the community, including availability for tourists.

RECREATION

104. There remains for consideration under this section the specime of the availability and use of land for recreational purposes. In this matter we would distinguish between the recreational uses with involve an intensive and highly localisates we of land and other distinctions are considered to the contract of the

local category of use).

105. We think this distinction is of some importance, because taking the Highlands and Islands generally we would not regard the

activities of the first category as presenting any special problems. Land is no doubt difficult to obtain for these purposes in certain areas but we do not see that the provision of adequate facilities in most localities need cause insuperable difficulties. In any case the existing processes of planning and other controls provide suitable safeguards against the improper allocation of land. Since golf courses take up comewhat more land than is required for the general run of 'intensive' recreational activities, the provision of golf courses probably raises more difficulties. We feel, however, that this ought not to prevent the provision of golfing facilities in most Highland localities. This is a form of recreation which is admirably suited for Highland holidays and for a very wide range of touriste. Every tourist centre of any significance in the Highlande and Islands should be equipped with a golf course and we recommend that this should be given urgent attention by the Local Authorities and Tourist Associations concerned.

Facilities for Recreational Activities

106. The provision of facilities for *extensive' recreational activities is of perhaps greater importance in relation to land use senerally. In this context, the value of land for recreational and tourist activities can be considered under the following heads -

- (a) Nature viz., seology, vegetation and wild life: Sport and fishing (already dealt with): (b)
- (o) Walking, hill walking and climbing;
- Other recreational activities such as pony-trakking, cailing, ski-ing and water eki-ing. 107. For the most part, it is necessary and desirable to approach

these aspects and usee of land in the Highlands comprehensively. There are certain areas, such as the Cairngorn area with ite development for winter sport, which lend themselves to planned, comprehensive study and development. The number of areas which might lend themselves to comparable comprehensive development in the Highlande is relatively limited, and we recommend that these should be identified and made the subject of special studies on the lines of that now being made of the Cairngorm area of the Eastern Highlands. Throughout the Highlands generally, however, there is a need for a systematic etudy and constructive action to establish suitable arrangements under which tourists and others may have access to end use of the land for recreation.

Nature Activities

108. A number of areas - see Appendix H - have been designated as nature reserves or as areas of special scientific interest, and activities within these areas are subject to rules laid down by the Nature Conservancy. We see no reason to suggest any substantial variation in these arrangements. There is, generally, a reasonable degree of access with safeguard of the special natural interest. consider, however, that more areas should be identified and designated not necessarily as nature reserves in the full sense but rather as areas accessible to persons interested in the study and operation of nature. This would be designed to cater for the very large number of people who have an interest, though not necessarily a scientific or highly informed interest, in natural conditions. such areas there should be special provision of paths, indicators. The possibility of developing 'nature trails' on the lines so successfully followed in the National Parks of Canada and the United States should be actively pursued. The Forestry Commission have also started marking out and attracting the public to use forest In addition, there is an acute need for more published information by way of guide books, leaflets and maps, and where tourist information centres are established they should, if possible, include a special section dealing with information about nature reserves, and the vegetation and wild life of the area.

Walking

109. The regairements in this connection are easily identified, Access should be, where possible, by seems of identifiable footpaths, which should be mutably signosted. In addition, notes of guidance to users of much access paths should be posted or otherwise name of the state of the state

Other Recreational Facilities

110. One of the most spectacular developments has been the increase in pony-trekking throughout certain parts of the Highlends. So far this has been left mainly to the initiative of hotels, though the Scottish Council of Physical Recreation have arranged courses of instruction. The possibilities of extending this form of recreation

to completely new areas should be pursued. We have in mind, in particular, the Western Islas. Purpical requirements for his form of recreation include the designation of bridle paths. Not designation should manner that these paths remain open and not subject to the contract of the particular and the subject to the contract of the particular and the subject to the contract of the particular and the subject to the contract of th

Sailing 111. There is one particular aspect of sailing activities to which

we think attention should be given. These have considerable potential but there is a serious lack of land facilities for their support. Without lending and herbour facilities of view and their support. Without lending and herbour facilities of view and competition with a seas, inherently no more attractive, in the south. Fat the enormous congestion of south coast herboure and the higher darges ensemt give rad opportunities are made in the higher darges ensemed give rad opportunities. It is that the provided as required.

Planning & Publicity

112. Obviously, much of the initiative in the identification and designation of paths for scores to areas of scend beauty or natural attraction must rest with the local plenning authorities, with the scattering of the district councils. We recommend however, that this task should be undertaken comprehensively, in commulation with the Sociatio Council of Physicial Accreation and the Central Departure of the Council of Physicial Accreation and the Central Departure of the Council of Physicial Accreation and the Central Departure of the Council of Physicial Central Council of Physicial Central Central

113. A particular aspect of this whole question of access arises in relation to the Forestry Commission's estates. These are very often located in areas of scenic attraction. The Commission have

had to provide, for their owe purposes, reads through the forests, but these are usually barred to existed wheeled traffic. We consider the policy of the Forestry Commission generally to close reads to cars with the comption of railise and organized vist but to provide scenes for other courists. Their policy should however be kept received to the terminal traffic and organized to the receiver of the terminal traffic continuing the forest commission should arrange for the opening to tourists of roads to places of scenic beauty, under and conditions as they may reasonably find necessary; at he scene for which the first continuing to be strictly controlled in making charges for access and for early raise and we see no reason why, where that is practicable, the Commission should not be smalled to obtain a reasonable return.

Encouragement of Tourism on Crofts 114. Another aspect of tourism and recreational activities, which

is of particular importance in the remoter parts of the Highlands and Islands, is the use by crofters of their croft land for nonagricultural activities in connection with tourism. The Crofters (Scotland) Act, 1961 enabled crofters to use their crofts, within reasonable limits, for non-agricultural purposes, to erect buildings in connection with these activities and to obtain compensation at outgo for such permanent improvements. The Crofters Commission have shown a keen awarenees of the opportunities which this extension of croftere' rights opens up, and we commend the efforts which they have made to ensure that these opportunities are fully understood and seized by the crofting communities. The provision of accommodation in the croft dwellinghouse for tourists has been long accepted as a legitimate crofting activity. The rapid development of tourism in the Highlands, however, calls for much more than the use of the odd bedroom. The Department of Agriculture's Building Grante and Loans Scheme has now been extended to include the provision and improvement of croft accommodation for tourist purposes, including loans for the erection of chalets. The new Treasury Loan Scheme for small enterprises in the Highlands and Islands, administered through the Highland Fund, should enable crofters to participate in the tourist trade in other ways (tearooms, craft workshops etc). It is, in our view. fortunate that much of the main tourist development in the crofting areas will be in those districts where the agricultural potential of the croft is relatively small and where the provision of non-agricultural occupation is of special importance. We recommend that the various echemes to sesiet crofters wishing to participate in the tourist trade should be administered as flexibly and generously as possible in the interests both of the crofters concerned and as a fruitful form of land use.

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PART V

INDUSTRIAL AND 'URBAN' USES.

115. The land uses to be considered in this context include the provision of sites for industrial development, for housing, schools and other public services, roads and hydro-electric development. Apart from the last-mentioned use, the requirements for these various purposes are highly localised, the choice for siting within the area concerned being generally limited by very specific siting conditions, and the issues that arise, so far as land use is concerned, are fairly clear cut. In almost every case, the issue that arises is one of change of land use rather than of intensification within the same category of land use (as, for example, might apply in the intensification of agricultural use). There are, moreover, wellestablished statutory procedures applying both to the general forms of plans for the use of designated areas and also for the consideration of particular projects involving a change of land use. Under the Town and Country Planning (Scotland) Acts local authorities are required to submit to the Secretary of State for approval development plans showing how they propose that the land in their district should be developed and used for the various purposes, and these plans are subject to periodical review and revision if necessary. Full opportunity is given for the submission of objections to published plans (or to alterations in these plans) and we have no doubt that thess arrangements sufficiently safeguard against possible mis-use of land. Again, developments (other than minor developments) by local authorities themselves are subject, in one way or another, to the Secretary of State's approval, and this ensures that the possible effects on other interests are taken into account.

Development of Natural Resources

116. So far as use for industrial development is concerned, we constituting the better factory industries (not using the natural resources of the area ond industries based on the explicitation of the natural content of the natural resources of the area of industries based on the explicit of the natural resources of the area of the natural resources in the Highlands will be embled to find a site to main his requirement as far as possible. The one think is requirement as far as possible. The natural resources in the Highlands will be embled to find a site or exploitation to natural resources. The nature and extent of natural resources in the Highlands and fall not so well come the attention which the Scottish Council (Development and Industry) are continuing to

give to the possibilities of exploiting these natural deposits and to the collection and dissemination of information about them. It is, unfortunately, true that in many cases there are special difficulties either of remoteness of location or quality of the deposit (making special processing necessary in some cases) but we recommend that in all cases where the deposite exist, prima facie. in sufficient quantity and quality, the possibilities of exploitation should be effectively investigated. We believe that it is not good enough to leave the initiative in this respect to private concerns (who may have other preoccupations and who may find alternative sources of supply convenient). We recommend, therefore, that the means of investigating these natural resources should be given early attention by the new Natural Resources Council when it is established. Such investigation should include not only the scientific and physical aspects of exploitation, but also the probable economics. We understand that powers are already available (e.g. under the Town and Country Planning (Scotland) Acts) to enable the authorities to enter into private land for the purpose of surveying mineral deposits (and extracting the eample quantities as necessary).

Other 'Crban' Casa

117. We do not see any special difficulties arising in regard to the other 'urban' uses. The programs of Hydron-electric othese construction has now been substantially overtaken, and there are, in many sees, sufficient asfoguards written into the stantory procedures, to ensure that a due balance of interest is preserved. Though the construction of roads may involve an entire the construction of roads may involve an entire that the process of good reads is such that we consider the advantages generally to outselfs any loss from agriculture, forestry or sport.

DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS

118. This survey makes clear that we regard land as of absolutely basic importance to the economy of the Highlands. In comparison with, say, central Scotland, where the emphasis is on the development of manufacturing industries and purely urban operations, the 'extensive' use of land in the Highlands and Islands mainly for agriculture, forestry, sport and recreation is bound to be a determining factor. Again, in contrast to conditions in central Scotland (and this is related also to the 'extensive' nature of economic activities in the Highlands) the numbers of population are relatively small. If the same number of people as are employed in one of the large factory developments in central Scotland were to find employment in the Highlands, it would make a decisive difference to a great many small communities. The nature of the contribution which the Highland economy makes and could increasingly make to the national economy is clearly of a different kind, and to be considered in different terms. But it is real and significant.

119. Our objective cannot simply be to make the full-st possible and uses in the High ands, without considering the costs. There must be read to be a supported by the cost of the supported by the cost of the light and the light

130. Agriculture and forestry remain the vital 'key' seems of antiving seconds improvement and providing local employment. They must be co-ordinated. For agriculture, the aim must be to improve the quality of autivation and humbarity and to strengthme the contract of the province of the contract of the province of the description of the description

121. An imaginative and sustained programme of afforestation over the next twenty years is not only possible, but necessary. Compulsory acquisition for forestry will no doubt be needed (and should

- not be shirked); and there should be greater readiness to plant entire estates where this would be advantageous.
- 132. As to the other 'extensive' uses of land and water it is clear that the facilities could, and should, be sade sore visitly available. Recommendations are sade to these ends. Again, we think that sore extension could be given to the part which can be played by land and water held in the Secretary of State's conceiling the country of the secretary of the secretary continuing to containing to voints trade.
- 123. If all this is to be effective, there must be changes in the sirangements for controlling and administering land affairs in the Highlands and islands. Make is required is a new, co-ordinated approach to the acquisations and management of land for afforestation, buth isod should be sequired and administered as estate units, and small state of the sequired and administered as estate units, and amaged comprehensively for agriculture, forestry and sport, according to the circumstances. At the least, this calls for a combination of the activities of the Department of Agriculture end Finderice for Scotland and the Bornstry Commission in these matters, the would not exclude the possibility of scakelinking a Bepertment of

Recommendations

124. Our detailed recommendations are set out in the following paragraphs:-

AGRICULTURE

- (1) That the Scottish Agricultural Organisation Scotcty Ltd. should be enabled to strengthen and intensify their efforts in the co-operative field, particularly with regard to the marketing of livestock from the Islands, with appropriate financial support. (pergraph 20.)
- (2) That more be done to ease and sxtend credit facilities for agriculturs in the Highlands and Islands (paragraph 25).
- (3) That the Crofters Commission take any necessary action to effect improvements in the corfiting pattern using the existing statutory opportunities by enlargement, and bringing in noncorfiting land where necessary. Such measures to be matched with more effective inducements to crofters concerned (caracrambs 28 and 40).

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- (4) That consideration should be given to extending the loans at present available (by raising the upper limits and applying them more flexibly) and to providing loans, on a limited scale, to supplement grants in respect of large regeneration schenee (paragraph 34).
- (5) That croftere cropping grants should be extended to include conserved grass (paragraph 35).
- (6) That special attention should be given to the subsequent management of improved crofters common grazings (paragraph 35).
- (7) That the fullest publicity chould be given to the facilities available under the Crofters Building Grants Scheme and that the scheme should be administered as flexibly ac possible and with regard to the wider requirements of the
- (8) That the Government's policy in regard to the selling off of agricultural land remaining from forestry acquisitions should be reversed and that such settice should be managed (including forestry and agriculture) as a unified land management task (paragraph 46).
- (9) That the Secretary of State for Scotland should exercise his existing powers and acquire suitable land for the creation initially of a limited number of family farms in areas of special need (paragraph 47).
- (10) That the Panel should continue its etudy of land reclamation in Highland conditions and make further specific proposale (paragraph 50).
- (11) That the Scottieh Agricultural Organisation Society Ltd. chould consider whether further efforte might be made to encourage group reclamation schemes in conjunction with the formation of machinery syndicates (maragraph 52).
- (12) That the improvemente being undertaken at Dalchork Farm be continued until full results can be demonstrated (paragraph 54).
- continued until full results can be demonstrated (paragraph 54).

 (13) That, initially, two schemes of land reclamation each of, say, 500 acres should be set in hand by the Government
- (14) In certain circumstances land should be acquired by the Secretary of State for Sootland for improvement by efficient farmers (paragraph 56).

crofter (paragraph 37) .

(paragraph 55).

FORESTRY

- (15) That a programme of special planting in declining crofting communities mainly along the Western and Borth Nostern seaboard including the outer and inner Hebrides should be separately provided and, to measure an adequate approach, separate arrangements for financial accounting of such operations be made within the Forestry Mund (paragraph 88).
- (36) That the Borestry Commission and the Department of Agriculture and Fitheries for Scotland should give special attention to the question of saking surveys of areas with a view areas in which the Commission are already operating and in Fresh areas (paragraph 70).
- should suitably publicise the help available for planting under dedication and other grant-aided schemes. It is further recommended that tenant farmers should be slightle for the grant of £22 4s. Od, per acre of planting, subject to suitable safeguard of the leadlord's interest (paragraph 72).
- (18) That the existing rate of planting by the Forestry Commission in the Highlands be increased to at least 20,000 acres per annus, in addition to private planting at the rate of about 3,000 acres per annus (paragraphs 67 & 74).
 - (18) That the Secretary of State should as necessary use his powers of compulsory acquisition in the Highlands and fall ands, both to ensure the iniffluent of the total planting targets and to bring into productive use under-used lend, particularly arraress of social and econosic needs. Further that the statutory procedure for compulsory acquisition of lend for forestry be reviewed and smended as necessary to make it more flexible and less narroxly based (paragraph 74).
- (20) That in areas where further or faster planting could and should be carried on, the Porestry Commission and the Scottish Davelopment Department should, together, actively take up with the local authorities where necessary the possibility of supplementing their building programmes (paragraph 77).
- (21) That the Forestry Commission should continue and develop, as far as is possible, their policy of doing the maximum excunt of work on piecework rates (paragraph 78).
 - ox work on precesors rates (paragraph 70).

 (22) That the retention and settlement of families as an essential requirement of the estate forestry programme cannot be over-emphasised and unless the use of timber merchants in the

Highlands leads to settled employment, the Forestry Commission should discontinue this policy and take on the work themselves (paragraph 79).

(23) That consideration should be given to the strengthening of

(23) That consideration should be given to the strengthening of the provision in Section 12(3) of the Crofters (Scotland) Act, 1955, for example to require the Scottish Lead Court not to withhold attherty for resumption of Land where the proposal has thinked attherty for the control of the Crofter of the State for Scotland has certified that it is in the public interest. Adequate indicescents solud also be given to crofters to encourage them to accept forestry on their Common Grazings (paragraph S 2).

(24) That the suggestion by the Stye Crofters Union for greater compensation to facilitate the improvement of the remainder of common gratings (after abstraction of parts for forcestry) should be followed by, and that the implications of the more from the compensation of the continuous contractions of the contraction in the light of the Crofters Countsians's study of it (paragraph 82).

SPORT AND PHYSICAL RECREATION (INCLUDING TOURISM)

(20) That a number of entates in the hands of covernment Departments and Authorities should be set aside and amaged in such a way that tourists interested in deer sports should have access to such land. Further, that a proper warden service should be provided and shootings made available for varying partods with all equipment provided, at each prices (paragraph partods with all equipment provided, at each prices) grantgen

(30) That effective local mechinery should be provided to ensure a harmonious relationship between fisheries proprietors, landlords and those with an interest in the development of the touriest industry to enable the full potential of salmon red fishing as a touries attraction to be developed and made evailable to visitors at the lowest practicable cost (paragraph evailable to visitors at the lowest practicable cost (paragraph).

(27) That a scheme should be introduced for voluntary registration of trout fisheries which would involve obligations and responsibilities as well as conferring protection upon owners of

responsibilities as well as conferring protection upon owners of trout fisheries (paragraph 99). (28) That the Secretary of State for Scotland's general superintendence of salmon fisheries in Scotland should be extended to salson and regulation of salson fishing should continue and similar protection should be afforded to trout in registered trout fine-right switch should also be subject to regulation; the primary administration of salson rivers and/or registered trout finie-rise (both river and loch) should be vested in district fishery boards; and each district board should include already representatives of various interest including a representative of various interest including a representative of various interest including a representative of various interests.

(29) That funds should be made available for further research into mixing of waters and variation in water levels in connection with the development of freshwater fisheries (paragraph 101).

(30) That, as an ultimate smotion, the Secretary of State for Sociland should have power for compleory conjustion of fishing rights (with access as necessary), in the event of it being satabilished by public inquiry that lack of access for visitors to the fishings in question is retarding development of the Coura's industry in the area concend (peragraph 103).

(31) That the practice of the Porestry Commission to let fishings for long terms to the soller of Ismah acquired for afforestation, should be reviewed, and that wherever possible such fishings should be restained in the Secretary of State for Sociland's hands for dieposal in the best interests of the community, including availability for couriest (perspective 103).

(32) That certain areas of the Highlands which might commend themselves to comprehensive development, e.g. for winter sport, should be identified and made the subject of a special study on the lines of that now being made of the Cairmgorm area of the Eastern Highlands (pragraph 107).

(33) That the Scottish Council of Physical Recreation should extend their present activities into those areas of the Highlands likely to experience a substantial increase in tourist traffic (maragraph 100).

angulands likely to experience a substantial increase in tourist traffic (paragraph 110).

(34) That supporting facilities (landing and harbour) for sailing and fishing should be provided as required (paragraph

111).

(35) That the identification and designation of paths for access to areas of scenio beauty or natural attraction should be undertaken comprehensively by local blenning authorities, considered the scenario of the sce

- that a joint working group should be set up to plan the operation and progress of this work as well as considering further questions of publicity, publications of guide books, equipping of information centres, etc. (paragraph 112).
- (36) That as a general principle the Forestry Commission should arrange for the opening to tourists of roads to places of scenic beauty, under such conditions as they may reasonably find necessary; with access for wheeled traffic continuing to be strictly controlled (pragraph 113).
- (37) That the various schemes to assist crofters desirous of participating in the tourist trade, should be administered as flexibly and generously as possible in the interests both of the crofters concerned and as a fruitful form of land use (paragraph 114).

INDUSTRIAL AND 'URBAN' USES (SR) That in all cases where deposits of natural resources exist

prims facis in sufficient quantity and quality, the possibilities of exploitation should be effectively investigated (paragraph 118).

(39) That the means of investigating these natural resources

(39) That the means of investigating these natural resources should be given early attention by the new Natural Resources Council when it is established and that such investigation would include not only the scientific and physical aspects of exploitation but also the probable economics (paragraph 116).

GENERAL

 $(40)\,$ That the comprehensive question of land use should be reviewed within 5 years (paragraph 13).

JOHN CAMERON Chairment

CREAGE
CRO
GRICULTURAL A
OIA

1975 1975				(at 4th June, 1963 ⁽⁸⁾)	(at 4th J	June, 1963 ⁽⁸⁾)	(8)	cap us		Acres
		fures	AGRICULA	THAT LAND () Supported	Croft Land)		CB097	CAND ONE.T	
19 19 19 19 19 19 19 19		Ares of Lend (b)	Chops and Unites			Total Crops, Grass and Grasings		Rough Granings (c)	Common Grandings (8)	Total Crops, Grass and Grazings
1,00,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,										
		1, 990, 521			55,005		11,986	47, 110	48, 500	107,806
4 mm cm 14 mm cm 14 mm cm 15 mm cm	Catthonna	438, 993			25,481	400,872	30,538	28,388	12, 400	82, 536
100 100 111 100 111 100 110	Irremess	2, 605, 004			302, 603		58,790	154,019	438, 200	621,009
1		240,848			1,478		17,155	14, 961	'	32,016
1,000,000 2,000 20,000 1,000,000	Cromarty	1,877,254			447, 303	1,901,519	25, 945	52,187	454,300	615,435
200.00 2	pg.				196, 986		14, 905	81,087	259,000	354,990
5,000,000 600,115 6,000 00 1,205,610 0,200,772 177,620 0,000,000 1,205,400 10,000,000 10,000,000 10,000,000 10,000,00		362, 337			198,411	352, 419	15, 101	61,290	182,000	258, 471
10,076,000 5,707,258 4,552,152 25,008 19,088,000 4,308,371 11,150,988 1,245,586	Counties	8, 992, 800	-		1, 225, 465	8,555,472	177,510	409, 942	1, 394, 400	1,981,852
1,240,586	Bast of Scotished	10,076,008	3,707,258		23,033	- 1				
	_	19,068,806	4, 308, 371	11, 150, 998	1,245,586					

121,400 61,900 19,100

65,900

35, 500 19, 100 10,600

101,871 9,378 52, 826

18,900

82,471

5,234 137,971

FORESTRY	FLANTING - OFFICIAL and PRIVATE (at 30th September, 1963)	

	r one	Forestry comission	alon	E	Private secaces	21		2
	Ares	Pung uj saay	Total	Area Planted	Ares in Band	Total	Plante Planted	Area Baga
Argell	114.700	26-600	150.300	OUR 031 OUR 771 OUR O31 OUR 775 OUR 735 OUR 775	900 04	77	94	9

1,554 900 2,454 700 200	114,700	36,600	150,300	24, 600	10, 200	44,800
	1, 534	900	2,434	200	982	088

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388,288 ,

238,130

117,650

120, 500

8

5, 191 6,990

55,257 15,888

and Cromarty

Sutherland Zetland

.

APPENDIX B - I

	i	2	

		FORE	FORESTRY	
		RURAL DEVELO	RURAL DEVELOPMENT SURVEYS	
				Acres
Name of Surrey	Total area surveyed	Total plantable area	Plantable strest recommended for forestry by Descriment of Agriculture and Flaheries for Scotland to date	Plantable area segalred by Forestry Commission or approved for segminition since Survey was started
Applacross Parish	109, 300	6, 500	4,400	
Ardnaurchin	45,300	7,200	1,800	
Arineig & Moldert	48,000	8,200	2,000	
Assynt Parish	119,000	3,300	2, 100	
Selmscara Peninsela	14,000	4,900	2,400	278
Ostrioch Parish	228,000	8,400	5,400	738
Jura	100,000	6,200	3,800	1,216
Kintyro	47,600	14,900	4,400	3,641
Mall	200,000	29,300	17,000	8,234
Signs	249, 100	30,800	15,400	4, 023
Spey (laverage-aline	430,000	150,400	98,800	8,173
Spor (Morty & Waten)	230,000	76,700	69,800	32, 869
Strathoykall	253,600	44,300	25, 900	16,159
(Bast and North)	900,000	99,700	22,400	9, 503
Sether148d (North-west)	379,000	14, 200	7,400	
Dog.	190,000	53,800	14,000	5,756
Ullapsol	220,000	9,400	0,800	1,096
	5,587,900	854, 200	314,700	89,426

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•	
ISLAND	
AND	
HIGHLANDS	4000
THE	
H	,
FORESTS I	
DEER	

Part								
1	*	Cattle	8	10	292	875	0,22	1,866
March Marc	310	Sheep	13, 587	1	38, 658	34,256	9,710	94, 181
24		Estimated gratesble area in deer forests returning stock	105,979	40, 120	301, 308	217,601	112, 179	775,187
No. of the control	842	Entimated graceable area in deer forests	120, 529	40,922	804, 108	242, 101	125, 545	858, 963
mury No. of Parties of Command of	4	Ares of dest forests returning atock	217,530	36,008	710,692	657,385	88 1188	1, 965, 559
anty ass ass ass and Committy Total		free	279, 251	59, 174	605, 449	745,846	248,988	2,235,666
and Gre		No. of Deer Purests	88	ю	88	8	8	147
		County	Argil	Calthress	Invertees	Ross and Grosserty	Sutherland	Total

TOTAL POPULATION IN HIGHLANDS AND ISLANDS AND NUMBERS OF WORKERS EMPLOYED IN AND FORESTRY AGRICULTURE

	f Total		* Employed in Agriculture	d 5	of Employed in	α Employed Forestry
County	g l	Full- time	Part-	To teal	Forestry Full-time	Commission Full-time
Argyll	60,385	1,675	213	1,828	1,037	829
Calthness	28,447	775	88	864	11	а
Inverness	81,933	1,631	215	1,846	657	525

by g

> 8,870 90 1,149 137 272 7,721 17,525 277,381

> > Fotal.

Shetland

1,779

2,361

991 .

1,296

160 285 8

1,136 372

18,491

2,205 422

1,920

57,406 13,194

Ross and Cromarty Sutherland

Futimated resident population at June, 1953

Canesa raters 1901 At 4th Just, 1963

These figures do not include sees 4,500 occupiers of fall-time farms and nearly 21,000 occupiers of other agriculteral units (mainly crofts) 5 At 50th September, 1983

APPENDIX E

statingt areas which more or less coincide with the division of the totand into three parishes. The Ross of Mull area which comprises the bulk of the parish of Kilfinichen and Kilvickeon held, and still holds, practically all the real crofte in the island: the mountainproduction of the control of the con

ous area south of the m and Salem bay in the ea Torosay held, and etill shoep-farming subjecte area, the parish of Kil the smaller tenanted fo altered in that two of changed over from compr	st comprising holds, the la of 10,000 - 30 minian and Kil .ms. The "16 the larger est	the parish of trge "in hand" 1,000 acres; a more, used to try out" of this tates have in r	Pennygown an deer-forest nd the north hold the bul area has ho ecent years	ern k of wever
changed over from compr to taking these places less as one unit. Sta in Mull are as follows.	in hand and fa	rming the whol	e estates mo	re or
Agr	1 cultural Holo			
	Parish of Kilfinichen und Kilvickson	Parish of Kilminian and Kilmore	Parish of Pennygown and Torosay	Total
No. of Holdings	113	88	59	280

altered in that two of changed over from come to taking these place- less as one unit. S- in Mull are as follows	orising about he in hand and fo tatistical deta:	alf a dozen ter arming the whol	anted farms .e estates m	re or
A	gricultural Hol- at 4th Jun			
	Parish of Kilfinichen and Kilvickson	Parish of Kilminian and Kilmore	Parish of Pennygown and Torosay	To tal
No. of Holdings	113	88	59	280
Acreage of Crops and Fallow	270	480	139	889

2,786

61, 114

2,350

1.778

30,820

70

824 5,712

391 13,003

871

25,897

188,422

184

4.083

79,063

83.087

2,102

44.221

10, 262

1,434

22,346 80

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35

Acreage of Crops and Grase

occupier's returns)

Acreage of Rough

Orazings Acreage of Common Grazings (information not included in

Dairy Cattle

Reef Cattle

Sheep

obtained	from the Cro	ftere Commission.		,	
No.	of Crofts	No. of Crofters		Croft!	ng Area
	158	141	2,114	acres	crops and grass
			9,517	acres	outrun
			10,298	acres	conson grazings

---- dotails of crofts at 90th June, 1964 have been

Agriculture is the main industry with forestry growing in importance and filling to some extent the gan caused by the dealine in inshore fishing and the loss of employment which used to be afforded by the distillery at Tobermory.

3. Agricultural production is in the form of livestock rearing (cattle and sheep). This production is surpricingly good and is expanding alongside the considerable allocation of land to forestry and the fact that some of the estates are maintained mainly for eport. The expansion in production is due in considerable measure to the activities of three large producers.

 The following comparison of agricultural returns for June, 1938 with the returns for June, 1963 show clearly the extent of the expansion in agricultural production which contrasts with the declins in employment provided by agriculture.

1963 4,267 50 per cent increase Cattle of all kinds 2,869 55 ner cent increass Sheep, including lembs 51, 318 70 063 Reduction of 40 per 939 149 Total agricultural labour

employed in three partones con t of the Island: Pennygom, Kilninian and Kilfinichen

5. The result of this division is that one finds three fairly distinct sets of conditions within the island. In the Ross of Mull one finds, not only in the agricultural background but in the social background also, a fairly typical crofting community who tend to look after their own community interests and make their own enter-

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tainment.

- In the area comprising the large deer forest estates there is perhaps less cohesion of interests.
- 7. As indicated, the pattern is changing in the northern area with the advent of manigastion of smaller fames into "in hand" estates, and afforestation. There are few social activities outside the Burgh of Tobermory, which is within this area, and agricultural organizations have disappeared or have smalgemented with the Pennygom and Toroway area organizations.
- 8. Afforestation in the Pennygow and Torsay partia has been no real "clearmore" of whom had properties and there has been no real "clearmore" of whole units but, in the north, individual fenily musts have been cleared and this along with sealignation of femily units has resulted in a very obvious reduction in the number of working framers in the area. The is of course part of a process owing framers in the area. The is of course part of a process have shown a sudem according to the process and the lack of this class of framers is now year yellow.
- 9. Agricultural production in Null is almost without exception confined to production of store these mid cattle. A few breeding cattle in the form of crose-bred heiters are produced for sale and cast ease sold any or may not go for croseing in the Sbuth but the income from these is a very small proportion of the total which consumptions of the total which consumption and the first production of the total which consumption cattle (sold either ac calves or yearlings) all of which go south for fattening.

One farm is run as a purely dairying enterprise, two others are small - part dairying/part stockrearing and one has pedigree Aberdeen Angue and pedigree Gallowsy herés.

10. It is class that in its present state the sprinchimal property of Wall depends largely on (a) shill, to produce states keep for hill cove (unless her one to bought to go to the country of the count

(a) There are few farms on Mull which can produce sufficient winter keep for the number of cowe which the grazings can summer and there would appear to be a tendency to overstock with cattle - which, in a bad hav-buying year, means that either the nowe suffer from malnutrition or so much hay is bought that there is a loss on the cattle enterprise. Conversely, development of land (e.g., by reclasation) capable of growing winter keep would improve the present imbalance between summer grazing and winter keep.

(h) Partly das to afforts to increase stock on low stocked grainings and poor prices for cast ewes there oppears to be a tendency to keep a high proportion of over age ewes. Given a said winter but may pop but in a severe winder such as 1802/fm, the outcome is an except. Only in a severe winder such as 1802/fm, the outcome is an except. This is particularly so where the graining are overstocked for them the powner sheep enfor equally badly and the lose becomes really serious both from the point of view of cash returns and maintenance of took numbers.

11. In spite of increasing benefits from modern dips and drugs which, when used properly, can overcome note common sheep diseases, lamb marking percentages in Mail do not seem to have increased. There are far too nawy floated where 05/6-06 lambs narried is eatli regarded as good crough when it should be possible to access the common of the "family" type farm.

13. There is little doubt that more efficient fearing is required if the indextry is to survive in Mull but it is full that the social background prevents increased efficiency. Some fears are coning into the hands of people with little agricultural experience; during the spring and summer of 100%, five such subjects changed hands. The adverse publicity on agricultural conditions on Mull predictors practically appeared to the survive of the survive in the survive of t

13. Transport difficulties have probably been over-emphasised. It my cost 3d no Probad more to get lamb to market from Wall then from average outlying farms on the mainland but, on a 700-860 eve farm producing a 750 inching, this only represente en extra 25.13cm per annua or around 1d. per eve on farms which are valued at about 5/- to 7/de, per eve against values or 15/- to 20/- per see on good sanish and

14. From a careful look at all its aspects it would seem that Mull is capable of providing agricultural conditions at least equal to the average in the Highlands of Sociland and one is forced to the conclusion that the difficulties of farming there are not due to inherent defects of the island.

- 15. Just survey have been ende by the Department of ggradulars and Minderste of Socialed and the Decarge Communication to access the amount of plantable lend in Mull. These have shown that there are seen 20,000 erces of plantable land in the talend. The Commission have planted about 7,000 acres out of a total of some 13,000 acres of plantable are planting at the seat of some 50.00 acres of the communication of the seat of some 50.00 acres of
- 16. As part of their study of conditions in Mull the Panel have examined the possibilities of land settlement in Mull. Three specific areas were considered in detail. The first of these is the farm of Glenforsa, managed by the Department of Agriculture and Fisheries for Scotland. This is a farm/estate extending to over 15,000 acres of rough grazing, with some 70 acres of arable, and at present run as 5 hirsels of 3,700 black face ewes with some 150 breeding cattle and followers. Some 1.800 acres of the estate have been earmarked for planting by the Forestry Commission. desirability of breaking up the estate into 5 or 6 holdings had been considered by the Crofters Commission, and the Panel were able to take account of the Commission's investigation. There is no doubt about the practicability of dividing the cetate in this way, though the resultant holdings would have the inconvenience (particularly so far as the holdings higher up the Glen were concerned) of having to share the low ground arable which is wholly situated at the seaward end of the estate. The cost of creating such holdings (viz. to provide for units of 600/800 sheep) would be considerable. Two sets of farm buildings could be used, but something like £16,000 would have to be spent to equip three of the holdings and this, together with expenditure on the estate generally, would involve a total sum of £50,000/£80,000. The labour employed on 61 enforsa farm comprises 1 Manager, 5 shepherds and 2 others, while forestry should provide work for a labour force of 7 or 8. Divided into 5 holdings, as suggested. Would not improve the 'population carry' of the estate. The Panel were, moreover, impressed by the value of the Glanforsa operation as a demonstration, within Mull, of sound agricultural methods. They felt in the circumstances that the balance of advantage lay with the further development of the farm along present lines for some years. Thereafter, it seemed to them, the question of division might usefully be considered though possibly into a smaller number of units than the 5 proposed. A further possibility in this connection would be the allocation of more land to forestry. providing steady wage-earning employment for perhaps a further 5 or 6 forestry workers.
- 17. The Panel next considered the land settlement possibilities of two privately-owned estates in other parts of Mull. The first of these consists of over 16,000 acres of which about one-third is

in hand. Their consideration of this latter part of the Retate showed that, with some re-adjustment, it could provide for rather showed that, with some re-adjustment, it could provide for rather than the could be taken for forestage. In challength of the could be taken for forestage, to provide full time work for about 0 mm. The other area examined can estate extending to over 0,000 acres) is not considered likely to provide naterial for mul-division for land considered likely to provide naterial for mul-division for land provide now meantable insulned for me employment.

STRATHOVKELL SURVEY

- 1. In 1848 the Fund suggested that the Porestry Commission and the Separation of Agriculture For Scalind might undertake a joint survey of the Strathoykull area in the counties of Statherland and loss and Crossarity. The Object of this survey would be to discover the state of the Separation of th
- 2. The two Departments surveyed in 1948 some 200,000 acres of fund 13/ng in the exclaimate scene of the Biver by/skil and Garron. This comprised some 15 extates with a total of 150 agric out tural substitution of the compression of the compr
- 3. With regard to forestry, it was found that of the 250,000 acres concerned, 2,000 acres were already planted, 7,000 acres consisted of scrub or felled woodland and a further 26,000 acres of bare land seemed suitable for planting. It was felt that the forestry would best be fitted in the general agricultural pattern if the bulk of the felled woodland and scrub could be restored to productive forest and some 13,500 acres of bare land could be planted. Including the 2,000 acres of existing plantation, this would eventually provide 22,500 acres of productive woodlands in the area. As at Sist December 1963, the Forestry Commission had been successful in acquiring 16,200 acres, of which 12,500 acres had already been nlanted. The number of men employed by the Commission in the Strathovkell area at September 1963 was 66 and 16 houses had been built or reconstructed for them by the Forestry Commission. further 34 houses had been built by the County Councils concerned but, because of the difficulty of retaining labour, only three were occuried by Forestry Commission employees in September 1963, the remainder being let to other County Council tenants.
- 4. On the agricultural side it was hoped that there might be an increase of shout 500 beef owns. Due to the abstraction of land for planting, the sheep stock of some 16,000 ewes sould be unavoidably reduced in the first instance, but it seemed probable that the increased shalter and the possibility of grasmiand improvement in the increased shalter and the possibility of grasmiand improvement in the increased shalter and the possibility of grasmiand improvement in the increased shalter and the possibility of grasmiand improvement in the increased shalter and the possibility of grasmiand improvement in the increased shalter and the possibility of grasmiand in the possibility of the possi

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5. It is felt that it is still too early to assess the effect of the afforestation scheme on the agriculture of the district but the number of breeding cows in the surveyed area more than doubled between June, 1947 and June, 1962, while the number of ewes has increased by 1,348 despite abnormal losses in the stormy conditions A comparison of the stock carried in the of the 1961/62 winter. Strathoykell area between 1947 and 1962 is as follows:-

Dairy Cattle

All Cattle

Twelve comprehensive schemes

Sheen

		Cows	Others	Cows	0 thers	Cows	0 thers	Ewss	0 thers
June,	19 47	266	378	118	94	384	472	15,933	17,929
June,	19 54	589	630	137	60	726	690	16,119	19,372
June,	1958	792	774	67	36	859	810	17,107	20,910
June,	1962	769	937	33	22	802	959	17,281	20,184

and Livestock Rearing Acts, 1946-59. have been formally approved by the Secretary of State, covering 194,568 acres and the works proposed are estimated to cost £123.567. Grants of 50 per cent have already been paid on completed works of improvement costing in all approximately £95,100.

Beef Cattle

SUMMARY OF CONDITIONS OF FORESTRY COMMISSION WORKERS

The Forestry Commission Industrial and Trade Council was sst up 1. in September, 1944 with the object of agreeing, and from time to tims amending, wages and conditions of service of industrial workers in the Forestry Commission. Prior to September 1944 the Commission conformed to the provisions of the Agricultural Wagne Acts. 0 In the Agreement provision is made for either side of the

Council to raise matters of a general character as affecting other Government Departments either on the Trade Joint Council for Government Industrial Establishments or on the Joint Coordinating Committee for Covernment Industrial Establishments. Matters, on which there is disagreement and which do not raise issues of a general character, are, by consent of both sides, referred to the Industrial Court. 9. Forest workers have a basic 5 day working wesk, Monday to

Friday, at an average of 42 hours evolutive of real times and overtime. To achieve this result in Scotland the basic working week is 39 hours during the 13 week 'winter' period from the bsginning of November when daylight hours are few and 43 hours during the remainder of the year.

4. Overtime is calculated on a daily basis as follower-

Monday to Friday: First two hours at time and a third: thereafter at time and a half.

Saturday (before 2 p.m.): First two hours at time and a third: thereafter at time and a half (guaranteed minimum payment of 2 hours).

Saturday (after 2 n.m.): Time and a half.

Sunday: Double time.

Nates: (i) Pisceworkers who are required to work overtims additionally, are maid the appropriate overtime increase on plain time rates in addition to the agresd piecework rates. (ii) Employees required to work on a paid public holiday receive may for all hours worked at time and a half in addition to holiday pay at the normal rate.

Piecework rates are negotiated locally and must be fixed so as to enable workers of average ability to sarn, in the ordinary working hours, at least twenty-five per cent above plain time rates. The Agreement covers time lost on account of bad weather. 7. workers are paid for such lost time; pieceworkers are paid time rates for all stoppages of two hours or more. Limited special leave with pay at plain time rate is granted in certain circumstances, e.g. marriage, urgent domestic distrees, public work, training with Territorial Army, Naval Reserve, Royal Auxiliary Air Force. etc.

Within the terms of the Agreement, two weeks annual holiday, on

the basis of twelve months' service, are allowed and paid for at plain time rates. Workers with twelve years' or mors service are allowed an additional two and a half days' annual leave. In addition, public and privilege holidays amounting to nine days in the year are granted and paid at plain time rates.

к.

6.

- Travelling and Subeistence payments are in accordance with the 9. Code of industrial Travelling Rules for Government industrial employees. Full time employees are granted sick Isave with pay in accordance with the scheme of Paid Sick Leavs for Government industrial employees (normally up to 13 weeks in any one year). 10. Full-time adult employees are eligible for establishment to ths extent that the authorised complement of established posts permite. Three years' reckonable adult industrial service in a Government Department is a necessary qualification. On retirsment, established workers with a minimum of ten years' rackon
 - abls service are entitled to a pension for life 1/80th of annual wags for each completed year - and a lump sum gratuity equal to three times the annual pention. Besides the foregoing provisions for established staff unestablished industrial staff who leave the Commission's service after a minimum period of amployment of five years are eligible, provided certain conditions are met, for a gratuity which naturally varies with the length of sarvice. 11. The Commission's adult male forest workers are classed in two main grades - forest workers and skilled forest workers.
 - addition there is a ganger grade. The rates for these grades are given in Appendix 6 - 1I.
 - 12. Special leads are paid to horsemen, trappers, etc. and craftsmen. plant operators, etc. are paid at the rates operating under the

relative Trade Agreement.

CURRENT WEEKLY RATES (GREAT BRITAIN) FROM OCTOBER, 1964

Horseman

Handyman

Leading Ganger £11 8s. -d.

Ganger £11 3s. -d.

Skilled Forest Worker

£10 7s. -d. Forest Worker £ 9 16s. -4.

£10 1s. 6d. Trapper

£10 7s. -d. after 6 months satisfactory

£10 17s. -d. after 5 years satisfactory

£10 7s. 6d. £10 7s. -d.

FORESTRY COMMISSION WAGES

service.

canvine.

CURRENT MINIMUM AGRICULTURAL WAGE RATES

The current minimum weekly wage rates effective from 7th September, 1964 for adult male agricultural workers in Scotland are:-

1964	for	adult	male	agricu	ltura	1 workers	in	Scot	lan	l are:-		
								£	۶.	d.		
			Sheph	erds a	ınd Gr	1eves		11	3	9		

10 18 9

4 hours garage work (Monday to

Rorsemen and Tractormen 10 12 3

These rates are related to the following hours:-

Stockmen

Shephords and Grieves	Customary hours
Stockmen	Alternate weeks of 45 hours

(Menday to Saturday noon) and Sohore (Menday to Sanday)
Horeemen, Tractormen and)
42 houre Kovember to Pebruary to Other adult male voriers) and 46 houre February to Saturday

William Communication of the Communication

Saturday)
The minimum shall overtime rate of 6s. 6d. per hour applies to employment in excess of these hours. Overtime is also due for employment on at maned public or privilege days (or days in lively for each 60 weeks continuous employment.

The following homeful to a devantages may be reckened as until my

The following benefite or advantages may be reckened as part payment of a minimum wage in lieu of payment in cash:-

House (from 3s. to 11s. per week depending on true and size)

type and size)

Milk (3e. 8d. per gallon not exceeding four pints per day)

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Single Meale	(from 2e. 5d. to 2 depending on ag
Lodging	(from 4e. 6d. to on age and sex)

Potatoes

Board

be granted.

(not exceeding two of each and grazing and byre to be provided)

Bothy Accommodation Hill Cows and Followers Hill Sheep

No other benefit or advantage may be reckoned as part payment of a

minimum wage.

(not exceeding 20 with not more than

5 hogge) Holidays with pay accrus at the minimum rate of one day for each

5e. without)

ing on age and eex)

five weeke of consecutive employment or engagement, the annual entitlement being 11 days. In addition paid public or privilege holidays amounting to 8 days in the year (16 days for shepherds) may

(10s. to 14c. per cwt. depending on

(10e. 6d. per week with attendance.

grade not exceeding 1 ton dressed or 30 cwts. undressed per year) (from 34s. to 47s. 6d. per week depend-

> 5d. to 2s. 11d. per meal ng on age)

6d. to 6s. per week depending

FORESTRY EARNINGS

AVERAGE EARNINGS IN NIME MONTHS, JANUARY-SEPTEMBER 1963

County	Forest	Adult Male Forest Workers	Average Weekly Earnings	
Sutherland	Dornoch	16	£10 10 10]
Sutherland and Ross	Oykell	12	£12 3 2	
Ross	Laci	13	£11 4 2	
Inverness	Leanachan	12	£10 14 -	ı
Argyll	61enhurich	10	£10 17 6	
Argyll	Sunart	20	£10 17 11	
Inverness	Glenrigh	10	£11 9 1	١

Fofe: The above information is based on actual exceings.

AGRICULTURAL EARNINGS

The average actual earnings of agricultural workers in the crofting counties (excluding Orkney and Shetland) during the period June, 1962 - May, 1963 were:-

		Arı	yll	(61ti	Masa	,	nve	rttees		Ro	100	9	athe	rland			five itles
	£	٥.	d.	£	6.	d.	£	8.	d.	£	۵.	d.	£	ь.	d.	£	8.	d.
Shapherde	11	11	-	11	7	6	11	16	-	11	1	1	11	16	3	11	11	2 (69)
Stockmen	11	2	7	11	17	9	12	2	8	11	2	9	12	3	2	11	13	2 (88)
Trectoren	11	0	8	10	8	-	10	16	8	10	6	9	12	10	5	10	15	2 (68)
Hore emen		-			-			-			-		1	-			-	
General Morkers	10	18	8		18	8	,	16	-		18	-	10	4	-		10	5 (54)
All Adult Male Workers *	11	8	5(69)	10	18	8 (88)	11	7	-(44)	10	6	-(67)	11	15	9(17)	10	18	9 (219
Orlaves	12	8	11	11	11	0	18	2	4	18	8	8	13	17	-	1.8	0	9 (40)

* being the average for the above five classes and excluding grieves. Number of workers in emple in breakets.

APPENDIX H - I

NATIONAL, FOREST AND LOCAL NATURE RESERVES AND WILDFOWL REFUGES IN THE HIGHLANDS AND ISLANDS (at 30th September, 1963)

NATIONAL NATURE RESERVES

Hame and Year Declared	Acresge	Access and Restrictions (except where otherwise stated permits to visit are not required)
BEINN EIGHE, Ross and Cromarty. 1961 and 1962 (Part Owned, part Nature Reserve Agreement).	10,507	Byelaws confirmed 1984 and 1983.
BEN LUI, Perthshire and Argylishire, 1961 (Wature Reserve Agreement).	985	-
CAINMOONES, Inverses-shire and Aberdeenshire. 1964 and 1965 (Part owned, part Mature Moserve Agreement).	59,888	Acress restricted in parts of Mar in satures.
CRAIGELLACRIE, Invermess-shire. 1950 (Nature Feserve Agraement).	64.8	-
HAAF GRUNEY, Shetland, 1989 (Noture Reserve Agreement).	44	-
MEMANESS, Shetland, 1955 and 1968 (Nature Reserve Agreement).	8,363	
INCOMADADE, Sutherland. 1966 (Nature Reserve Agreement).	3,200	Authority required to visit the Reserve in late summer and suturn.
(Nature Reserve Agreement).	1,868	
INVERPOLLY, Rose and Growerty. 1901 and 1962 (Part owned, part Nature Reserve Agreements).	20,827	Authority required to visit Drumrunie in late summer and sutumn.
LOCH UNUIDIESO, South Ulet, Invermees-shire, 1988 and 1962 (Fart owned, part Mature Roserve Agreement).	4, 148	Permits required during the bird breeding season.

1955 774
Agreement).

† Denotes Nature Esserve which is also a Wildfowl.

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NORTH ROMA AND SULA SCEIR, ROME and Cromerty, 1986 (Mature Reserve Agreement). NOSS, Shetland. 1985 Obsture Reserve Agreement).

RASSAL ASSAUCE, Rose and Cromarty. 1956 (Nature Reserva Agreement).	202	-
MMUM, Inverness-shire. 1967	26,400	Authority required to visit parts of Reserve easy from Lock Scresort eres.
ST. KILDA, Invertees-chire. 1967 (Leased from the National Trust for Scotland).	2, 107	-
STRAINT BOG, Sutherland. 1960 (Leaded).	120	-

Acreage

Total acreage 138,781.

Neme and Year Declared

781.

Access and Restrictions (except where otherwise stated permits to visit are not required)

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FOREST NATURE RESERVES

Name	Owner with whom Agreement concluded and date	Acresge
Arriundle Cakwood, Argylishire.	Department of Agriculture and Fisheries for Scotland. 1961.	288

Extract from Report of The Nature Conservancy for the year ended goth September, 1963.

NATURAL RESOURCES IN HIGHLANDS AND ISLANDS

Coa

Deposits of coal are worked at Machrihanish in the Wull of Kintyre (by the National Coal Board) and at Brora in Sutherland where the colliery was taken over in 1961, and is operated by a company formed by the miners with financial assistance from the Highland Fund Limited.

Peat

Peat deposits (most of which are in the Highlands and Islands) and their commercial exploitation were investigated by the Scottish Peat Committee whose second report was published in 1962. The Committee considered that the peat deposits represented a valuable source of raw material for industrial and horticultural purposes or for agricultural development and afforestation, which could be evaluated and were bound to be utilized in due course. In the Highlands and Islands over 66 thousand agres of peat deposits, mainly in Caithness and Sutherland, were surveyed and denomits extending to 33 thousand acres in the island of Yell (Shetland) were partially surveyed. These areas were selected for survey partly by the possible requirements of the North of Scotland Hydro Electric Board and partly to provide a reasonable geographical selection of deposits which might be suitable for large scale exploitation. The Committee concluded that of the established methods of peat harvesting the milled peat method could be applied successfully in Scotland and they estimated that if all the major peat deposits were developed, close on 7 million tons of milled peat (equivalent to 2 million tons of coal) could be produced annually over a period of 25 years, most of this from the Highlands and Islands, and that possible uses would be for generating electricity, to provide fuel in the form of peat briquettes or, where appropriate, for horticultural purposes. use of pressure devatering methods in the large-scale exploitation of peat would be particularly beneficial in Highland conditions. Committee were satisfied that electricity generation could be undertaken on a substantial scale in Scotland, using steam for generation and milled peat for fuel but the production costs would be higher than by other methods of generation. The Committee considered that there was great scope for further development of peat resources by bog surface cultivation (agriculture and forestry) and for the use of peat for horticulture in which they eaw the best immediate prospect for peat development in Scotland.

Seaweed

The Institute of Seawed Research has carried out studies into the switchilly, growth and conservation of seawed. It has been estimated that 10 million tone of seawed grow in Scottial humbers actuars. The Scottials seawed industry has been been due to conservation of the seawed growth of the seawed growth of the seawed in the seawed industry declined in the mineteenth century and case to and in the 1950's. In the past war protof end and brown essences have been used in the alginate and seawed and the seawed and

Water

industry (e.g. distilleries) and for the production of electricity. (The North of Sociand Hydro-electric Stations with a generating capacity of approximately stations with a generating capacity of approximately station of the stati

Surface water, a natural resource available in comparative abundance in the Highlands and Islands, is already being utilised in

Minerals*

Amorthosite rock occurs in South Herriz and there has been investigation by a commercial firm.

Cisy occurs at Shian (Argyll) and might be of economic value.
White Cisy at Tresta (Shotland) has been investigated superficially.

Distomite occurs (but has not been worked) in Unst and Fstlar

(Shetland). Deposits in Lewis and in Skye have been worked.

Dolowite outcrops occur near Kyle of Durnees, near Loch Eriboll, at Inchnedanch at Slphin, (Sutherland) but these have not been

• From summary information supplied by the Scottish Council (Development and Industry).

worked. Working of dolomite at Duror (Argyll) ceased some years ago. In Rose and Oromarty dolomite of known economic value occurs at Loch Risborn and Ullapsol. The deposits at Ullapsol are worked but at Loch Kisborn a steel company has so far been unable to carry not a full investigation which they shead to undertake.

Feldiffer occurs in the syenite of Ben Loyal (Sutherland) and might be of secondate value but has not heen fully investigated. Considerable reserves remain near Northton and Sodal (South Harris) where feldigary was worked during the 1829-45 war. Feldigar of possible economic value also occurs in north-west Sutherland, Easter Ross and in widesyred localities in Inverses anniand.

Iron-ore in Rassay (Skye) was worked during the 1914-18 war and considerable reserves remain.

Eyamite has been explored in Unst (Shetland) and a commercial firm ie negotiating for working rights. Occurrences of kyamite have been investigated by the ease firm in the Ross of Mull and near Clenelg.

Lead and Zinc deposits at Strontian (Argyll) are being investigated by a Canadian firm. Lead-zinc ore also occurs in Islay.

Limestons is being worked on the mainland of Shetland, at Torran (Skys) at Torlundy (Inverness-ehire), near Campbeltown, mid Kintyre, in Islay and near Loch ave in Argyll. A large deposit north east of Torlundy has not yet been exploited.

Magnetite has been worked near Sullom (Shetland). Deposits at Tiree (Argyll) have been investigated with negative result.

Potash-bearing shales outcrop in various localities in Sutherland, in Ross-shire and near Ord in Siye. A number of large firms are interested in the possibilities of conserval exploitation of the deposits containing 11% potash extending from Loch Eriboll in Sutherland to Loch Carron in Mester Ross.

Serpentine is being worked in Unst (Shetland) .

Shell sand occurs in Orkney and in Caithness and is used locally for agricultural purposes. Shell sand is widespread along the west coast of the Outer Hebrides and along the west coast of the mainland of the Orofter Counties. It is extensively used in the Outer Hebrides but pas on the mainland.

Silica (in the form of quartzite) of possible economic value occurs wast of Loch Eriboll (Sutherland). Deposits in Inverness-shirs north and south of Loch Leven have not been systematically evaluated. Silica (quartzite) near Ord (Skre) was formerly worked by

a refractory brick firm. High grade silica (in the form of sand) is worked at Loch Aline (Argyll) and exported south for glass making. Tale is worked in Unst (Shatland).

INFORMATION BY COUNTIES IS AS FOLLOWS: -

Shetland Islands

Tale has been worked in Unst for many years and the production at present is about 7,000 tons per year. The material is exported to the south where it is ground and used for various purposes. e.g.. fillere for paint and paper making.

Serpentine is being worked in Unst and is exported to the south for making refractories used in steel manufacture. Production of serpentine in Unet has varied between 1,600 and 7,000 tons per annum - depending on demand. Serpentine slso occurs in Fetlar.

Evanite has been explored in Unst and an agreement for working the deposit is being negotiated with the Firm who own the mineral rights

in the area. Distantite occurs in small pockets in Unst. but these have not yet been fully explored. Distomite also occurs in Fetlar: the deposit needs further investigation. Poor transport facilities (there is no

nier) may deter exploitation. Limestone is being worked on the mainland. It is ground and used locally for agricultural purposes.

Magnetite was explored during the last world war near Sullom on the usinland and worked for some years after the war. White Clay has been investigated superficially at Tresta. It is worth further investigation. The clay might be used for a local

craft industry (pottery) . Chromite and other minerals e.g. copper are not exploited.

Orkney Islands

Cai thness

A few years ago the Caithness County Council commissioned a survey of the mineral resources of the County. No new mineral of notable economic significance was discovered. Shell sand is worked for agricultural purposes.

Su therland

Dolomits. A workable deposit of dolomits occurs on the east coast of Loch Eriboll. A subsidiary of a shipping company has considered the possibility of quarrying and shipping the dolomits in this to steel manufacturers. There are also large outcrops of dolomits at Inchesdemy and at Mishing.

Potash-bearing shales outcrop at various localities: east of Loch Eriboll, near Glen Coul, at Skiag Bridge, south of Inchnadamph, at Loch Awe in Assynt and at Knockan, south of Elphin.

Silics, which occurs on the west of Loch Eriboll, is of possible economic importance and needs further investigation.

Feldriar occurs in north west Sutherland and in the symmite of Ben Loyal. These occurrences might be of economic importance and need further investigation.

Ross and Cronarty

Delowite of known economic value outcrops at Loch Kishorn.
Delomite is being worked at Ullapool and is used mainly for agricultural limestone. A steel firm has expressed interest in this
delomite for use in steel manufacture.

Potash-bearing shales outcrop at Knockan, Strathkanaird, Loch Broom (south of Uliapool), Kinlochewe, Achnashellach (Balnacra), and north of Loch Kishorn.

Distonite has been worked on a small scale in Lewis and used for making car polish.

Feldriar of mossible economic value occurs in Easter Boss.

Inverness-shire

Limestone is worked at Torran. The limestons is ground at Torran and sold in Skye mainly for agricultural use. (Some is used as roadstone.) Other deposits of limestone and dolomits occur in the Strath Suardale/Torran area. On the mainland limestone is worked and ground at Torlundy and distributed in Inverness-shire and Moray and Nairn for agricultural use. A large deposit exists north-east of Torlundy (east of the Spean Bridge), but this has not yet been exploited.

Potash-bearing shales outcrop near Ord in Skye.

Silics (in the form of quartzite) was formerly worked near Ord by a firm specialising in refractory bricks. Working of the silica was abandoned because the firm ceased to use silica refractories. Silica deposits occur north and south of Loch Leven near Kinlochleven, but these have not been systematically explored.

Distantite was worked up to about three years ago in Skve at Loch Cuithir by a firm of diatomite importers. The working in Skve was abandoned because of the difficulty of drying the diatomita: tha calcining plant which had been installed proved to be inefficient. Considerable reserves remain and with some enterprise working could economically be restarted.

Feldsear was worked during the 1939-45 war in two localities in South Harris - near Northton and north of Rodel. Considerable reserves remain and further investigation of these deposits is desirable. Feldspar of possible economic value also occur in widespread localities on the mainland.

Amorthosite rock occurs in South Harris, north-west of Rodel. The rock is being investigated as a possible bulk material for shipment.

Iron-Ore was worked in Rassay during the 1914-18 war. It was previously estimated that the remaining reserves were about 10 million tons but a recent geological examination brought the estimate up to a probable 80-90 million tons. A test drill hole is required to prove the north-westerly extension of the ore body.

Argy11

Limestone is worked in several localities: near Campbeltown, mid Kintyre, in Islay and west of Loch Awe. The island of Lismore is composed almost entirely of limestons.

Dolowite was worked at Duror for the manufacture of rock Wool ("Rocksil") in Stirling. The working of the dolomite at Duror was

Magnetite which occurs in Tiree, has been investigated with negative recult.

Silics sand (high grade) was discovered at Loch Aline during the last war and has been worked successfully for a long period. The sand is exported south and is used mainly for glass making. Lead and sinc deposits at Strontian have been under investigation.

In Islay there exists an area containing lead-zinc ore, lying on both sides of the road between Bridge-End and Port Askaig. Numerous old workings exist in the area; the latest working ceased in 1880.

Clay, which might be of economic value, occurs at Shian (Loch Creran).



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DEPARTMENT OF AGRICULTURE AND FISHERIES

Land Use in the Highlands and Islands

Report submitted by The Advisory Panel on The Highlands and Islands to the Secretary of State for Scotland on 27th October 1964



EDINBURGH: HER MAJESTY'S STATIONERY OFFICE

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