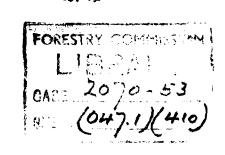


# FOR REFERENCE ONLY

Treasums



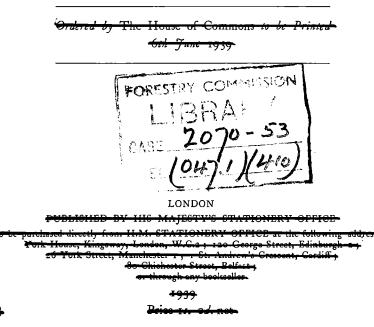
# FORESTRY COMMISSION



Annual Report of the Forestry Commissioners

for the Year ending September 30th

> <del>1938</del> 1939



<u>72</u>0

Owing to war-time difficulties this Report was not printed.

NOTE.-

# <u>CONTENTS</u>.

				Page
FOREST POLICY	• • •			l
General				l
Normal Opera	tions			l
War Plans		• • •	• • •	l
Census of Wo	odlands			2
Forest Worke:	rs' Holding	S	• • •	3
Advances for	Afforestat	ion Purposes	• • •	3
Research and	Education	* • *		3
National Par	ks		• • •	3
Mr. John M. 1	Murray	• • · • · • ·	• • •	3
Finance	• • •	• • •	• • •	4
Commissioners' Es	tates	• • •		4
Land Acquisition	• • •			5
Acquisition	of Plantabl	e Land	• • •	6
Planting Programm	e	• • •	• • •	6
State Forest	S	• • •	• • •	6
Assistance t Owners	o Local Aut	horities and Pr	ivate	7
	¢ • •		• • •	7 8
Home-grown Timber	• • •	• • •	•••	9
Amenity Private Forestry	• • •	G <b>B Ø</b>	• • •	9 10
Imperial Forestry	•••	• • •	•••	10
Unemployed Traini		• • •	• • •	12
onemproyed frame.	ing camps	• • •		Τζ
OPERATIONS - FOREST YE	AR 1938-193	q		13
The Forestry Fund	_	J		13
General Organisat				15
Forestry Operatio		•••		15
	•••	• • •	• • •	15
-		 ildings and Sta	nding	- /
Timber	•••	•••	• • •	15
Land Acquire	d by Lease,	Feu and Purcha	se	16
Cultural Ope	rations	• • •		18
Plantations	• • •	• • •		18
Silvicultura	l Operation	S	• • •	18
Cost of Plan	ting			<b>2</b> 0
Nurseries	o c .	• • •	• • •	20

## Page

		•		21
Seed Supply .		• • •	• • •	
Forest Fires .		• • •	• • •	22
Forestry Commission		• * •	• • •	23
England and Wal	Les	• • •	• • •	23
Scotland .	• •	• • •	• • •	25
Advances for Affore:	station Pu	rposes	• • •	26
Education .	• •	• • •	• • •	26
Apprentices' So	chools	• • •	• • •	26
Grants to Unive	ersities,	Colleges, etc.	• • •	26
Imperial Fores	try Instit	ute	• • •	27
Short Courses :	for Forest	ers	• • •	27
Research and Experim	nent	¢ • •	• • •	27
Production .	• 4	5 <b>6 6</b>	• • •	27
Nursery and Pla	antation E	xperiments	• • •	28
Entomology and	Mycology		• • •	28
Botany and Soil	ls		• • •	29
Advisory Commi	ttee on Fo	rest Research	• • •	29
Agency and Advisory	Services	o <b>* *</b>	• • •	29
Special Services .		* * *		29
Census of Wood	lands	• • •	• • •	30
Publications .	• •			30
International N	Jnion of F	orest Research		
Organisation	3	• • •	• • •	30
Royal Agricult	aral Show,	1939	• • •	30
British Associa	ation for	Advancement of	Science	30
Consultative C	ommittees	• • •	• • •	30
Forest Workers' Hole	lings	• • •	•••	30
Income .	• •		•••	32
EMPLOYMENT IN THE COMMISS	SION'S FOR	ESTS	• • •	33
APPENDIX I - IMPORTS OF 9 PULP OF 1		OD MANUFACTURES	AND	34
APPENDIX II - PLANTATIONS	- YEAR EN	DED 30th SEPTEM	BER,1939	36
	and Wales		•••	- 36
Scotland				40
Summary		· · ·		45
· · · · · · · · · · · · · · · · · · ·				

#### TWENTIETH ADMUAL REPORT of the FORESTRY COEFISSIONERS for the year ending 30th September 1939

This Report covers the Forest Year ended September 30th 1939 and brings the annual accounts of the Forestry Commissioners' work to the end of their second decade of existence. It has been their practice to publish at 5-year intervals a summary of progress and it was the intention of the Commissioners at the end of the twentieth year to make a comprehensive survey and at the same time to have submitted fresh proposals to Government. The outbreak of war has made this impossible and in fact undesirable and this report is therefore restricted to a record of the information essential to the maintenance of the administrative records.

## FOREST POLICY - GENERAL.

## Normal Operations.

During the year under report the Commissioners prosecuted their normal operations in England, Wales and Scotland and as well continued their undertaking in relation to the Statutory Special Areas Scheme for the settlement of unemployed in the North of England and in South Wales. It is the duty of the Commissioners to acquire property for afforestation and to create plantations and as far as the Fund permits to establish workmen and their families upon the Forest Estates. In the course of the year owing to the threatening situation in Europe and to other circumstances it became necessary to re-adjust the proposals for the Special Areas. The unemployed in certain Northumberland and Durham areas displayed hesitation when invited to migrate to the country but many took advantage of the opportunity in South Wales and they have adapted themselves to the change of environment and evince an interest in their work and their holdings. The Com-missioners are satisfied that this method of land settlement has many features of success and that after the war is over it can be developed more extensively. It will be noted from the Table at the end of this Report that a minimum of 4320 forest workers were engaged during the summer and a maximum of 5185 in the winter planting season. It is definitely to the advantage of the undertaking that all employees should be permanently settled on the Forest Estates where through regular employment they gain experi-ence and become reliable and skilled. Hitherto the Commissioners have been unable to extend the scheme of Forest Workers Holdings because the Forestry Fund has had to be mainly devoted to afforestment and the acquisition of land.

### <u>Mar Plans.</u>

During the year collaboration with the Board of Trade was continued in working out detailed plans for the production of home timber in the event of an outbreak of hostilities. In 1914-18 when between 450,000 and 500,000 acres of British woodland had to be felled there was no State organisation for Forestry. The Forestry Commission was formed in 1919 as a sequel to this experience and became the Statutory Authority for the Production and Supply of timber in the United Kingdom (Forestry Act 1919). As a consequence of this preparation it was possible to begin active operations on the day war broke out. The basis of the plan was to divide the Commission into two Departments, the Forest Management Department to carry on normal activities and the Timber Supply Department to deal with war demands for timber. An allocation of

duties to Commissioners and staff, down to foresters and foremen, was provided for so that at the signal operations were begun with a minimum of confusion. It is not here proposed to describe the plan in further detail except to state that duties in the Timber Supply Department were allocated to Commissioners as follows:-

Section.

Labour.	Mr Walter Smith,
Machinery & Transport.	Colonel L. Ropner subsequently succeeded by Colonel D.B. Campbell.
Departmental Production (England & Wales and Northern Ireland).	Mr W.L. Taylor.
Departmental Production (Scotland).	Sir Samuel Strang Steel, Bt.
Liaison With military units on forestry operations.	Colonel L. Ropner.
Trade Production.	Mr T.W. Godley subsequently succeeded by Mr C.J. Venables.

Sir John Sutherland, Commissioner in charge of the Forest Management Department.

It remains to add that at the outbreak of war the Headquarters of the Commission was changed from London to Bristol.

During the forest year which closed upon the 30th September the Commission acquired Estates covering 32,207 acres of plantable land and planted 28,235 acres, bringing the area planted up to the end of the twentieth year to 368,878 acres. Many of the purchases were made for the Special Areas Scheme but the additions for the normal programme for afforestment were maintained. The Forests of the Commission in England and Wales now number 130 and in Scotland 111.

So far as possible the policy of the Commissioners has been to make effective use of the stocks of plants raised in the nurseries. These nurseries now number 87 in England & Vales and 47 in Scotland and they contained a stock of plants raised for the planting programmes for ensuing three years which represented a value of close upon £250,000. The Commissioners decided to maintain and where possible to increase these plant stocks so that the regular yearly programme of planting may be continued. The Commissioners desire specially to represent that the present situation demands the furtherance of every effort to replenish and increase the stocks of growing wood in the country and as the plants for the purpose are in hand there is no reason to curtail afforestment.

<u>A Census of Woodlands</u> in Great Britain was initiated by the Commission sometime before the outbreak of war with the objects of ascertaining the amounts of standing timber of various kinds and the silvicultural condition of the woodlands. About one-third of the task had been completed when war broke out. The survey was subsequently rapidly extended by special methods and the statistical results have proved most useful in connection with the extensive exploitation which has unfortunately become necessary. One fact has emerged from this Census conclusively, e.g. that the pre-warstocking of home woodlands in private ownership was far from satisfactory.

## Forest Workers' Holdings.

At the end of the forest year 1471 of these holdings had been completed and occupied in the United Kingdom and a few were in course of completion. The Commissioners decided to abandon the provision of further holdings until the end of the war.

### Advances for Afforestation Purposes.

These were available as usual and 415 proposals were considered and passed representing an area of 4,700 acres of conifers and 1161 acres of hardwoods. During the year the Commissioners had under consideration proposals submitted by Forestry Associations and Landowners for the further development of afforestation by private effort and this subject will be included in a series of suggestions for a post war policy to be submitted to Government at a later date.

### Research and Education.

The research investigations and experimental Work proceeded satisfactorily until the end of August 1939 when arrangements had to be made to curtail some of the less important features. The Commissioners have however endeavoured to continue such investigations as require continuous observation and will maintain essential experimental areas and sample plots so that no records of value may be lost. The Grants to Universities and Colleges were maintained and the Forest Apprentices Schools in England and Scotland were in full occupation until the end of the year.

#### National Parks.

The Mational Forest Park in the Forest of Dean was opened by Colonel Ropner on 12th August, 1939 - a Pavilion of Red Canadian Cedar was erected in the Camping ground and Roads and Paths were formed by the Forest staff and the access was enlarged and improved by the Gloucester County Council. In Snowdonia the erection of a Common Room, Caretaker's Bungalow and lavatory block had been authorised at Beddgelert with a view to the opening of this camp in the spring of next year. The attraction of the Mational Forest Parks and the appreciation of the facilities afforded for camping is confirmed by the yearly increase in the number of visitors at the Ardgarten Forest Park which was opened some years ago in Scotland. The Commissioners hope later to make available further areas for public recreation.

## Mr. John M. Murray.

The Commissioners regret to record the death of Mr. John M. Murray, Assistant Commissioner for Scotland, which took place suddenly in September 1939. Mr. Murray was assiduous in the furtherance of the interests of the Commissioners and his knowledge of sylviculture was of great value in the satisfactory establishment of large areas of plantations in that country.

-3-

### FINANCE.

The balance in the Forestry Fund at the consequencement of the forest year was £460,732. Receipts from Parliamentary Votes (£850,000) and Forestry Operations (£207,122) amounted to £887,128. Payments amounted to £945,819, so that the balance in the Fund at 30th September, 1938,was £572,025. The progress of payments and receipts is indicated in the table below.

Year er	nding		Payments.			Receipts.		N	et Payment	S.
30th Septeur	h –			Proposed.	Actual.	Excess (+) Deficit (-)	Proposed.	Actual.	Excess (+) Deficit (-	
First decad	le:	£	£	£	£	£	£	£	£	£
1920–29 (10 cial year:	ol finan- s)	-	4,502,018	-		851,484		3,892,000	3,650,534	— 24I,466
Second dec	ade:									
1930	•••	958,000	808,237	- 149,763	1.15,000	148,337	+ 3,337	813,000	659,900	- 153,100
1931		1,019,000	842,490	- 176,510	158,000	171,556	÷ 13,556	861,000	670,934	- 190,066
1932		798,000	761,220	- 36,780	159,000	151,466	- 7,534	639,000	609,754	- 29,246
1933		602,000	582,259	- 19,741	153,000	146,629	— 6,371	449,000	435,630	- 13,370
1934	•••	600,000	618,852	+ 18,852	150,000	172,953	+ 22,953	450,000	445,899	— 4,101
1935		611,000	620,818	+ 9,818	156,000	178,339	+ 22,339	455,000	442,479	- 12,521
1936		754,000	718,869	- 35,131	174,000	186,140	+ 12,140	580,000	532 <b>,7</b> 29	- 47,271
1937		981,000	911,946	- 69,054	202,000	228,079	+ 26,079	779,000	683,867	- 95,133
20	••• ••• •• •••	1,076,000 1,924,900	1,115,583 94 <i>5,</i> 819	+ 39,583 - 78,181	213,000 22 <b>1,00</b> 0	231,231 207,/22	+ 18,231 - 13,878	863,000 Tog,000	884,352 <b>733,697</b>	+ 21,352
							Total	_	9,754,775	

\* Forestry Fund: Payments and Receipts.

i

#### COMMISSIONERS' ESTATES.

The following statement presents a general view of the properties under the charge of the Commissioners at 30th September, 193%? and a summary of the main silvicultural operations which have been undertaken :

		England			Total	
• • · · ·		and Wale:	s. Sci	otland.	Great Brita	ın.
Number of Forests : At beginning of yea At end of year	ar 		<del>118</del> 125 <del>125</del> 130	- <del>97</del> / - <del>107</del> /		<del>215</del> 23 <b>2</b> <del>232</del> 241
Utilisation of Ground Forest Land : Acquired Planta	tions	61,000 59,000	12,0 <del>11,</del> 0		73,000 70,000	
Planted by Commission	Forestry	224,500	/36,0 126,0	<del></del>	361,000 * <del>333,000*</del>	
To be planted		153,000 <u>438</u>	,500 I2 <b>9</b> ,0	000 27 <b>5,50</b> 0 	2 <b>80</b> ,000 %//	4,000 2,000
Nurseries		, -	600	400		1,000
Agricultural Forest Workers'	 Holdings	<del>- 22</del> 26,	<del>,500</del> ,300	<del>-14,700 -</del> 16,700	<del>3</del> 4	7,200 3,0 <i>00</i>
(including outru	n)	13	,000	3,000	L	5,000
Unplantable Miscellaneous	′and 		, <b>/</b> 00 ;900	247,900 <del>243,900</del>		
			<u>,000</u> <b>52</b> 0	<u></u>		<del>7,000</del> 6,000

• •	England and Wales.	Scotland.	Total Great Britain.	
Silvicultural Operations during Year (Acres) :			<i>,</i>	
Planted or Sown Naturally Regenerated Underplanted Thinned Felled		183 429 <del></del>	-10,129 <del>24,089</del> 8 <del>82</del> 24 <del>421</del> 1,166 <del>4,949</del> 35 <del>727</del>	- 191 - 453 - 5,715
Holdings and Estate Manage- ment:				6. 
Number of Forest Workers' Holdings established :				
At beginning of year During year	<del>-961</del> Ι,01γ <del>-56</del> 66	<del>338</del> 359 <del>-21</del> 29	<del>-1,299-</del> 1,376 <del>77</del> - 95	
At end of year		,083 - <del>359</del>	388	- 1,471
Other Tenancies :				
Agricultural Holdings :				
Under £20 per annum Over £20 per annum	<del>550.</del> - <del>354</del> -		2	
Foresters' Houses	-55 <del>1</del> 		551	
Cottages	<del>-330</del> - ;	327 <del>244</del>		
Residential and Sporting Easements, Permissions,	317	310 <del>- 232</del> -	239 <del>549</del>	- 549
Minerals, etc	<del>-2,040</del> -2	,055 <del>- 191</del> -	210 <del>2,231</del>	- 2,265
Site Rents and Feus		<del></del>	240 <del>231</del>	
			- 1,580 - <del>5,230</del>	- 5,350

It will be observed that during the year the number of forest units has increased by 9 from 232 to 241. Of these new units 5 are in England and Wales and 4 in Scotland.

Including transferred Grown woodlands the total area of land which has been sequired increased by 47,000 acres from 1,097,000 acres to 1,144,000 acres and the plantable area by 32,000 acres from 682,000 acres to 714,000 acres.

Compared with the previous year there have been increases in nearly all silvicultural operations, the most important being in planting and sowing, 28,235 acres against 24,089 acres, and in the area thinned, 5,715 acres against 4,949 acres.

#### LAND ACQUISITION.

Acquisitions during the year assunted to 47,035 acres net, of which 32,207 acres were classified as plantable.

Year ending		By Lease	By		Total.	· · · · · · · · · · · · · · · · · · ·
30th Septer	ıber.	or Feu.	Purchase.	Actual.	Acland Proposals.	Excess (+) Deficit (-)
First decade	:	Acres.	Acres.	Acres.	Acres.	Acres.
1920–29		156,759	153,471	310,230	402,000	- 91,770
Second decad	le :				-	
1930		8,409	25,951	34,360	34,300	+ 60
1931		4,851	44,007	48,858	34,300	+ 14,558
1932		4,970	41,467	46,437	34,300	+ 12,137
1933		2,885	12,450	15,335	34,300	- 18,965
<b>1</b> 934	• • •	11,581	17,305	28,886	34,300	- 5,414
1935		268	13,772	14,040	34,300	— 20,260
1936	•••	603	17,641	18,244	34,300	— 16,056
<b>1</b> 937	•••	1,805	40,490	42,295	34,300	+ 7,995
1938	•••	3,307 &1.378	60,788 10,829	64,095 32,207	34,300 34,300	+ 29,795
7237 ··· Total	••••	2/6,8/6 <del>-195,438</del>	438,171 427;342	634,987 -622,780-	745,000 745,000 710,700	<u> </u>

# Acquisition of Plantable Land.

## PLANTING PROGRAMME.

State Forests.

The area planted during the year was  $\frac{26,235}{24,089}$  acres.

## Area Planted.

Year ending	Y Proposed to be	Ac	Excess $(+)$ Deficit $(-)$ on Decade		
30thSeptember.	Planted.	New Planting.	Replace- ments.	Total.	or Annual Programme.
First decade : 1920–29 :	Acres.	Acres.	Acres.	Acres.	Acres.
Conifers	150,000	126,444	4,316	130,760	— 19,240
Hardwoods	unspecified	6,365	1,146	7,511	-
	_				
				138,271	
Second decade :				- २	
1930	25,000	21,404	3,698	25,102	+ 102
1931	25,000	24,234	1,396	25,630	+ 630
1932	20,000*	21,959	704	22,663	+ 2,663
1933	20,000*	20,394	657	21,051	+ 1,051
1934	20,000*	20,355	1,302	21,657	+ 1,657
1935	20,000*	20,773	719	21,492	+ 1,492
1936	20,000*	<del>-19,495-</del>	1,081	20,5	+ <u>-576</u> 581
1937		19,324	783	20,107)	<del>  107</del> ↑
1938	<b>∫</b>	23,404	685 1,5/8	24,089	<del> 4,089-</del> '
1939	r	350,873	18,000	<u>- 28,235)</u> 368,372	`
Total	I <u> </u>	<del>324,151 -</del>	<u> </u>	<del>346,638</del> -	<u> </u>

\* Minimum area.

 $\dagger$  From 1937 onwards the proposals embraced the Special Areas programme. The general object in view was to increase the rate of planting as quickly as possible to 30,000 acres per annum.

The total area planted by the Commission to 50th September, 1939, was 565,878 acres, of which 341,377 acres consisted of conifers and 27,501 acres of hardwoods. New planting accounted for 850,873 acres and replacements, which included 6,695 acres replanted after damage by fire, for 18,005 acres. Details are given below.

	G <b>onifers.</b> Acres.	He <b>riwoods.</b> Aores.	Total. Acros.
New planting Replacements	527, 266 14, 111	23,607 3,894	350,873 18,005
	we apply in the second s		
Total	<b>341</b> ,37 <b>7</b>	27,501	<b>36</b> 8, 978
		ter and a standard and a standard and	

## Assistance to Local Authorities and Private Owners.

The Consissioners have continued to assist planting by local authorities and private owners by means of grants and a proceeds-sharing scheme. The total area planted amounts to 125,862 acres, of which 5,861 acres were planted during the year. Particulars of the grants are given on page

First decu	.d			ACTOB.
1920-29	e e \$ 14262 (	***	•••	72,856
Second dec	ade :			
1930	***		* * *	8,473
1931	***	* * *	* * *	5,792
1952		***	***	5,033
1955	* * *	***	***	4,395
1934	* * *	***		5,477
1935			* * *	5,485
1936	***	* * *	***	5,353
1037	***	***	***	4,390
1938	***	# # #		4,748
1939	* * *	***	***	5,861
Total	***	* * *	• • •	125,862

Prices of home-grown timber showed a tendency to fall at the beginning of the year under report, but there was an improvement in this respect later on and a rise of about 10% took place. There was also a better market for the produce from plantation thinnings, the prices of which rose about 5%. In Scotland, there was little alteration in the price of home-produced material.

## Amenity.

The Joint Informal Committee of the Commissioners and the Council for the Preservation of Rural England mot once during the year under review, further attention being given to Dartmoor, Breckland, Eskdale and Savernake. The general question of forest policy and amenity received consideration, particularly from the point of view of encouraging landlords to improve their woodlands and ensuring that local authorities properly maintained planted areas which they acquired, e.g. to preserve amenities of roads. Other questions raised were the Access to Mountains Bill and the Commissioners' planting activities along the Whitby-Scarborough road.

## PRIVATE FORESTRY.

The second Conference to discuss policy as regards private forcetry was held in London on 19th May 1939. The meeting was well attended and recommendations were submitted, but owing to the outbreak of war no action could be taken.

An experiment was tried during the year in connection with advice to Landowners, the counties of Eent, Surrey and Sussex being selected for the purpose. A panel of expert advisors was appointed and advice, where needed, was given free of charge. Owing to the outbreak of hostilities it was not possible for the scheme to be developed to any extent.

The short course for foresters on private estates were continued at five centres.

## IMPERIAL FORESTRY INSTITUTE, OXNORD.

In May 1939 the School of Forestry and the Institute were combined under the charge of the Professor of Forestry and several new regulations came into force.

The new method of recruitment foreshadowed in last year's Annual Report has been adopted for the Colonial Forest Service and in future the selection of Officers will normally be made from candidates who have taken honours in Natural Science or in a Final Honour School. Those selected will, with the aid of scholarships, undergo a course of training in forestry extending usually to two years, this period being divided by an interval of Colonial forestry work. Candidates who do not wish to enter the Colonial Forest Service, pay follow the two years' course of instruction without interruption.

The Commissioners regret to record the death of Professor N.S. Troup which occurred on October 1st.1939. Professor Troup was appointed Director of the Imperial Forestry Institute in 1924 and continued to act as its administrative head until 1938.

Following on the establishment of the Imperial Forestry Bureau, Mr.J.W.B.Sisam commenced his work as Deputy Director of the Bureau in June 1939.

## UNEMPLOYMENT TRAINING CAMPS.

Co-operation with the Ministry of Labour has been continued by the Commissioners in the provision of sites for instructional centres and outdoor work for the men. The work includes fire protection, clearing and road-making.

## OPERATIONS—FOREST YEAR 1937 — 1938. The Forestry Fund.

The position of the Forestry Fund at 30th September, 193\$," and at the same date in previous years is shown in Table I.

		1				1
			Receipts.		Balanc	
Year ending 30th September.	Balance from preceding Year.	Parlia- mentary Votes.	From Forestry Opera- tions, etc. (Table II Head Z).	Total.	Payments (Table II, Heads A to L).	in Forestr Fund, 30th Septem ber.
	(1)	(2)	(3)	(4)	(5)	(6)
First decade :	£	L L		6		6
1920-29	~	4,000,000	851,484	4,851,484	4,502,018	£
Second decade :		4,000,000	091,404	4,051,404	4,502,010	
1930	349,466	937,800	148,337	1,086,137	808,237	627,36
1931	627,366	490,000	171,556	661,556	842,490	446,43
1932	446,432	399,000	151,466	550,466	761,220	235,67
1933	235,678	450,000	146,629	596,629	582,259	250,04
1934	250,048	450,000	172,953	622,953	618,852	254,14
1935	254,149	450,000	178,339	628,339	620,818	261,67
1936	261,670	700,000	186,140	886,140	718,869	428,94
1937	428,941	800,000	228,079	1,028,079	911,946	545,07
1938	545,074	800,000	231,231	1,031,231	1,115,583	460,72
1939	460,722	650,000	207,122	857,122	<u> </u>	372,02
Total	-	<del>-9,476,800</del>	<del>-2,466,214</del>	<del>11,943,014</del> .	<del>11,482,292</del>	
		10,126,300	2,673,336	12,800,136	12,428,111	

Table I.—Forestry Fund Account.

Balances remaining in the Fund at 30th September include provision for the succeeding six months of the financial year.

An analysis of payments and receipts by Heads of Account is given in Table II. Compared with the previous year, total payments fell from £1,115,585 to £945,819 a decrease of £169,784, mainly under the head of forestry operations. Receipts were less by £34,109, and not payments were therefore £145,655 less than in 1938. It may be noted that Heads of Account differ in some respects from those under which estimates are presented to Parliament.

Table II is limited to sums actually expended or received, recorded by the heads of account under which they occurred. In subsequent tables, which are based on commercial practice, out-standing receipts and payments are brought to account, salaries and overhead charges (Heads A to D) are allocated to appropriate objects of expenditure, and adjustments are made between various heads of account in respect of produce used for forest purposes and transfers of land and buildings between the forests and forest workers' holdings.

Expenditure and income adjusted on the basis stated above are shown in Table IIa.

						PAYMI	ENTS.							
Year ending 30th September.	A. Salaries, Wages and Allow- ances.	B. Head- quarters' Charges.	C. Assistant Commis- sioners' Charges.	D. Divisional Officers' Charges.	E. Forestry Operations.	F. Advances for Afforesta- tion Purposes.	G. Education.	H. Research and Experi- ment.	J. Agency and Advisory Services.	K. Special Services.	L. Forest Workers' Holdings.	Total.	Receipts. Z.	NET Payments.
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
st decade : 920-29	£ 494,157	£ 22,676	£ 30,586	£ 74,434	£ 3,118,837	£ 207,824	£ 76,004	£ 36,927	£ 91,776	£ 23,342	£ 325,455	£ 4,502,018	£ 851,484	£ 3,650,534
ond decade : 930	63,202	2,571	7,658	9,418	598,119	14,102	9,355	6,901	_	493	96,418	808,237	148,337	659,900
931	65,347	5,267	4,704	9,787	629,461	14,067	9,628	7,577	-	337	96,315	842,490	171,556	670,934
932	63,313	5,851	3,414	10,007	603,735	13,649	6,925	6,653	—	674	46,999	761,220	151,466	609,754
933	62,119	4,219	3,416	9,401	465,637	12,103	6,002	7,291		568	11,503	582,259	146,629	435,630
934	63,069	4,119	2,960	9,449	498,053	14,121	5,292	6,286	-	860	14,643	618,852	172,953	445,899
935	67,385	4,343	3,090	10,340	491,506	13,968	5,999	8,479		1,066	14,642	620,818	178,339	442,479
936	72,997	4,178	4,262	10,944	573,593	13,116	6,183	9,057		3,284	21,255	718,869	186,140	532,729
937	79,583	4,811	5,893	11,547	719,951	9,884	7,111	10,253	-	2,301	60,612	911,946	228.079	683,867
938 <b>939</b>	86,538 9 <b>6,79</b> 0	10,383	5,818 8,270	12,980	919,639 737233	10,005	9,361 7, <b>82</b>	11,366 11,366	57	2.31t	56,379	1,115,583 945,879	207,122	884,352 734,152
Total	1,208500		71,801 80,071	181,685	8.628.112	334420			91, <del>776</del> 91,833	37,033		12,428/11	2673,336	2006038

Table II.—Payments and Receipts by Heads of Account.

Table IIa.—Expenditure and Income.

				1 000	<i>w</i> 11 <i>w</i> .	_Lxpt	1000000000000							
a	A to D.		Ex	PENDITURE	(including A	llocation of	Column 1).				INC	OME.		
Year ending	Superior Super- vision	E.	F. Advances	G.	н.	J.	К.	L.		Z1.	Z5.			Net Expendi-
30th September.	and Overhead Charges.	Forestry Operations.	for Affores	Education.	Research and Experi- ment.	Agency and Advisory Services.	Special Services.	Forest Workers' Holdings,	Total.	Fores: • Operation	Forest Workers'	Mis- cellaneous.	Total.	TURE.
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(20)	(11)	(12)	(13)	(14)
First decade :	£	£	£	£	£	£	£	£	£	ç	£	£	£	£
1920-29	582,178	3,512,577	241,694	101,313	79,650	99,233	61,299	389,883	4,485,649	882,108	27,515	6,936	916,559	3,569,090
Second decade :														
1930	83,414	675,631	16,944	10,208	12,338	1,177	2,097	108,575	826,970	147,994	12,206	406 386	160,606	666,364
1931 1932	85,803 80,972	701,434 661,180	16,573 16,341	11,411 8,884	12,598 12,326	1,167 1,135	1,891 2,357	109,020 56,357	854,094 758,580	165,068 144,216	13,583 16,811	300	179,037 161,104	675,057 597,476
1933	79,182	527,218	14,353	8,226	12,182	944	2,099	19,437	584,459	137,941	17,228	170	155,339	429,120
<b>1934</b>	79,600	576,853	16,450	8,058	11,301	997	2,453	21,417	637,529	163,132	17,372	518	181,022	456,507
1935	85,263	566,454	16,639	8,013	13,739	1,201	5,012	21,685	632,743	169,202	17,551	270	187,023 201,601	445,720 529,742
1936 1937	92,579 102,197	655,041	15,872	9,074	14,132 16,289	1,180 1,318	5,971 4,770	30,073 70,176	731,343 948,262	183,030 225,966	18,064 18,652	507 674	245,292	702,970
1937 (		833,339	12,075	10,295	10,209	1,310	4,770	50 452	T 132 644					885,409 738,247
1939	113,546 122,645	1,017,351	13,872	12,608	17,583	1,282	10,496 	59,452		227,723 203,742	18,465 18,465	1,247	247,235 220,204	
Total	-1,384,734	<del>9,717,078</del>	- <u>380,813</u> 396,549	-188,090	-000,178	<del>209,634</del>	-98,445	-886,075	1 <del>1,599,973</del> 12,555,804	a,446,380	177,447	- <del>- 10,991</del> -	2,634,818	8,957,455
Descentar	1,507,582	10,561,157		114,311	219,895	111,145	193,993	955,154	12,555,804	2,652,122	196,34/	11,609	2,860,102 <del>100</del>	9,695,702
Percentage		84.2	<del>3.3.</del> <u>3</u> .2	1.6	1.7	1-0-9	يۇنىھ 0•8	<del>7.6</del> 7.6	/ <u>-106</u> /00	92-8 92-7	6.9	<u> </u>	100	

Note.—The above and subsequent tables do not include the amount of the valuation (£1,738,075) placed on the Crown properties transferred to the Commission under the Forestry (Transfer of Woods) Orders in Council dated 21st March, 1924 and 1st June, 1926.

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#### £122,848.

Compared with 1938, expenditure rose by £9,302, due to normal increments, and additional office accommodation. The number of Divisional Officers remained at 17. During the year the number of District Officers was increased from 56 to 63, and the number of Temporary Surveyors for census of woodlands work was increased from 12 to 16.

## SUBHEAD E - FORESTRY OPERATIONS. EXPENDITURE, 6948,079; INCOME, 6305,743.

Details of expenditure and income are given in Table E. Gross expenditure was £175,272 less than in 1938. The chief decrease was £205,627 on acquisition of land. Overhead charges increased by £11,040, local supervision by £8,917 and stores and miscellansous by £9,375. Income fell by £21,981, there being a decrease of £13,163 in sales of land and buildings.

<u>Overhead Charges, £49,096; Superior Supervision, £45,345, and</u> <u>Local Supervision, £69,600.</u> - Overhead charges are in respect of salaries, allowances and other expenses in the offices of the Commissioners and Assistant Commissioners. Superior supervision represents similar expenditure in respect of the Deputy Surveyors, Divisional Officers and District Officers; and Local supervision includes the salaries, housing allowances and miscellansous expenses of Foresters and Foremen. During the year the number of Foresters and Foremen employed in forestry operations was increased by 29. The numbers at 30th September, 1939 wers:- Foresters 251 (Head,9; Grade I, 45; Grade II, 177), Foremen 143.

Acquisition of Land, Buildings and Standing Timber. - Expenditure amounted to £90,794, of which £69,481 was in respect of purchases of land including standing timber and buildings, and £27,333 in respect of land held on long lease or feu. (This expenditure is not directly applicable to the areas sequired during the year, particulars of which follow.)

The total area of land acquired during the forest year 1938-39 amounted to 47,247 acres, of which 32,357 were classified as plantable. On the other hand disposals and adjustments amounted to 212 acres (50 acres plantable).

The average reat or feu duty for land sequired for forestry operations during the year by lease or feu was approximately 2s.3d. per acre and the average price for such land purchased, approximately £2.18s.10d. per acre. If the whole outlay in respect of land, buildings, timber, etc., were charged against plantable land the figures would be 3s.5d. and £3.15s.3d. respectively. Land and buildings for forest workers' holdings are excluded.

The net total area in Great Britain in respect of which the legal formalities of acquisition by the Department had been completed by 30th September, 1939, was 1,002,527 acres, the corresponding figures in the previous two Annual Reports being 974,420 and 692,712 acres. In addition to these completed acquisitions, entry had been secured to other property. Details are given in the table below, which also shows the area of "plantable" land and "other" land, i.e. land which is either too poor to plant or is required for other purposes.

	By Lease	and Feu	•		By Purchas	e.	
	Plant- able (includ- ing planted).	Other Land.	Total.	Plant- able (includ- ing planted).	Other Land.	Total.	Total Acquired.
	Acres.	Acres.	Aores.	Acres.	Acros.	Aores.	Acres.
ingland and Sales : - Minally com- ploted	134,546	28,685	153,031	256,199	77,444	373,643	486,674
Sn <b>try so-</b> ourod	3,552	132	3,734	222	-	222	3,956
Total	127,898	28, 967	156,765	258,431	77,444	533,865	490,630
cotland :- 'inally com- pleted	<b>7</b> 9,8 <b>95</b>	74,615	154,510	181,750	179,393	361,148	515,653
entry se- oured	9,023	9,110	18,133	-	••	-	18,135
Total	88,918	83,725	172,845	161,750	179,593	361,143	533,786
Froat Britain	216, 316	112, 592	329,408	458,171	256,887	<b>095,0</b> 08	1024,416

# Land acquired by Lease, Feu and Purchase from 29th November, 1919, to 30th September, 1939.

Of the net total area acquired by lease, feu and purchase in Great Britain to 30th September, 1939, 664,987 acres were classified at the time of acquisition as plantable and of this area 584,319 acres (59 per cent) were in England and Males and 270,668 acres (41 per cent) in Scotland.

In addition to the above-mentioned areas, Grown woodlands extending to about 130,000 acres (of which some 60,000 acres are plantable) have been transferred to the Forestry Commissioners.

The total area of land in the Commissioners' control is thus approximately 1,150,000 sores. In round figures the utilization as at 30th September, 1939, was as shown in the table on page 120 120 120

Operations.
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Table

			E	Ехгенрітике (Tabl	(Table IIa,	e IIa, Column 2).					INCOME (	Table IIa, (	Income (Table IIa, Column 10).		
Year ending 3oth September.	Over- head Charges.	Superior Super- vision.	Local Super- vision.	Acquisi- tion of Land, elc.	Cultural Opera- tions,	Prepara- tion and Sale of Produce.	Roads and Build- ings.	Stores and Miscel- lancous.	Total.	Sales of Land and Build- ings.	Rents and Royaltics.	Forest Preduce.	Other.	Total.	NET Expen- diture.
	(x)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(IO)	(11)	(12)	(E1)	(†1)	(13)
Tiret derade .	ÿ	] ¥	Ŧ	Ŧ	÷	Ŧ	4	3	ŗ		3	3	<u> </u>	54-2	~+ <b>?</b>
1920-29	<b>1</b> 92,997	201,122	174,I30	787,509	1,510,801	118,853	x15,488	411,677	3,512,577	78,784	160,172	406,594	122,639	882,108	2,630,469
Second decade : 1930	20'413	29,957	36,674	186,640	230,356	22,87I	26,566	63,154	675,631	2,642	65,184	63,949	16,219	147,994	527,637
1661	31,974	30,929	39,413	193,444	285,558	20,972	27,483	71,661	701,434	15,568	71,930	56,768	20,802	165,068	536,366
1932	29,352	30,004	40,633	200,552	252,556	20'342	24,376	63,362	661,180	7,869	70,249	49,477	16,621	144,216	516,964
ES91	29,609	29,752	43,467	76,394	254,363	26,766	18,301	48,566	527,218	4,463	75,127	47,32I	11,030	137,941	389,277
1934	27,898	31,856	46 <b>,o</b> 34	95,215	265,071	30,966	18,629	61,184	576,853	12,258	78,120	55,893	16,861	163,132	413,721
	27,985	35,127	48,364	20,042	281,488	34,4Bg	18,129	50,830	566,454	6,394	8i,622	63,112	18,074	169,202	397,252
j£61	31,906	37,308	52,257	115,412	300,807	36,123	18,021	63,207	655,04 I	5.708	83,027	73,111	21,184	183,030	472,011
1691	36,771	39,814	56,530	209,557	346,084	49,855	2Å,I33	66,589	833,339	-	84,753	89,814	48,992	225,966	607,373
1938	33,056	43:953	89,833	206.421	401,636	61,981	32,393	\$3.122	1912 351	560 2006	92,511	191,954	12,980	227,737	789,628 X3X 33X
Total	THE REAL	127803		3321.100	11596.820	191,224	365,244	1000	10.000	- 1 <u>3</u> 56	1,0657133	1,1051688	326.04	3475425	263/278.22
rercentage	40 40	÷ مراجع	6.9	<del>و.و.</del> کې چې	43.4	44	40	1 Q	-1- // D	9 C	30-4-	41.4	12.3	-100- /00/	

<u>Cultural Operations.</u> - Expenditure amounted to £403,100 details of which are given in Table E.5. Plantations accounted for £318,853 and nurmeries £90,347.

<u>Plantations.</u> - The total area planted or sown during the year was 28,255 scres, of which 25,711 acres were placed under conifers and 2,524 acres under broadleaved species. Included in the above are 587 acres re-afforested in the former Grown woods and 951 acres replanted after damage by fire. Details by forests are given in Appendix II, pages

The total addition to the woodland, area of Great Britain as a result of the Commission's operations was 32,417 acres. In forming plantations and beating-up previous years' plantations 63 million trees were used, of which 40 per cent, were Horway and Sitka spruces; 25 per cent Scots and Corsican pines; 10 per cent European and Japanese Larches; 1 per cent Bouglas fir, and 15 per cent broadleaved species.

An area of 455 acres of existing woods was underplanted, necessitating the use of 500,000 plants.

The quantities of work done by Divisions during the year are shown in the table below.

Division.	Planted and Sown.	Naturally Regener- ated.	Under- planted.	Thinned.	Felled.
England &		ndagen (die Alleich vonneutik en gebied by Lagin adare ogstand er			
Walse -	àores.	A <b>gres.</b>	Acres.	Acres.	Acres.
N.E	5,045	7	1	138	16
N.W	1,579	*	9	79	11
š	2,561	95	43	478	125
5.E	974	-	3	382	93
3. M	784	-	3	96	15
New	683	81	239	1,336	93
Denn	302	-	77	1,334	126
N. (Nales)	3,021	•	30	656	43
S. (Tales)	8,159	<b>-</b>	28	70	1
fotal	18,105	183	429	4,549	528
Sootland -					
North	2.205	-	-	156	6
South	8,115	8	7	242	8
Saat	2,453	-	_	548	21
	3,380	-	17	220	-
Total	10,129	8	24	1,105	35
Potal,Great Britain	28,235	191	453	5,715	568

Silvicultural Operations.

			Table E	5.—Cultu	tral Operi	ations (T	Table E5.—Cultural Operations (Table E, Column 5).	olumn 5)				
					Planj	Plantations.						
Year ending 30th September.		Prepara- tion of Ground.	Drain- age.	Fencing.	Plant- ing.	Weed- ing and Clean- ing.	Beating- up.	Forest Pro- tection.	Total.	NURSER- IES.	Grand Total.	
		(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)	
Ti <del>nt</del> doordo .		Ÿ	ŕ	ۍ بر	<i>ب</i> ر	<i>ب</i> ر	<u>ب</u>	<del>ب</del>	<i>ب</i> د	Ŷ	4	
тран чесаце . 1920-29	:	151,950	81,147	204,523	243,213	183,499	69,372	95,824	I,029,528	481,273	1,510,801	
Second decade :	_				,	,					, (	
030	:	19,541	25,042	34,554	43,364	36,070	22,047	26,169	206,787	73,569	280,356	
1931	:	17,522	29,463	38,449	43,096	35,803	19,040	27,134	210,507	75,051	285,558	
1932	:	13,24I	37,228	31,425	34,078	39,439	16,032	26,139	I97,582	54,974	252,556	
1933	÷	I0,307	36,563	29,748	20,105	44,113	18,729	32,187	200,752	53,611	254,363	
1934	:	9'716	36,806	29,203	30,804	43,073	20,913	35,617	206,132	58,939	265,071	•
1935	÷	8,124	41,604	29,537	31,974	46,695	21,532	35,253	214,719	66,769	281,488	
1936	:	10,120	40,014	31,205	30,512	52,787	20,748	37,662	223,048	77,759	300,807	
1937	÷	10,022	43,817	34,368	31,737	73,009	25,020	44,503	262,476	83,608	346,084	
1938	:	12,761	57,901	48,160	38,084	27,084	20,057	57,984	312,031	89,605	401,636	
1784 Total	:	278,078	4911-11-37	524,618	600,186	LT4'201	272.641	478,957	3,376,415	1,205,205	4,58,820	
Percentage		الان الان الان الان	<del>fion</del>	12-2	- <del>6 - 6</del>			-O-mO-F	- <del>6</del> <del>64</del>	-196-	-00#-	1 1 - <b></b>
)		6.1	8.01	12.1	13.1	.c/	6-0	10.3	73.7	26.3	00/	

19

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<u>Cost of Planting.</u> - The outlay per acre on labour and material on the areas planted between 1919 and 1939 was as follows: -

			×424 436 444
England and Wales		***	10. 0. 7
Scotland	* * *	* * *	10. 1. 6
Great Britain	***	• • •	10. 0.11

These figures cover the cost of preparation of ground, drainage, fencing, plants, planting, replacement of failures and weeding, but do not include expenditure on forest protection, supervision and overhead charges.

1.051

<u>Murseries.</u> - The total area under nurseries at 30th September, 1939, was 1,915 acres stocked with 191 million seedlings and 135 million transplants. Comparative figures for the three years 1957-39 are given in the following table 1-

Year ending	Country.	500d ( (1b.)			1	t of Plu	tousends	Soth Sept	tember dlings.		Aroa
30th Sept.		Coni- for- ous.	Broad- leaved	Total.		Broad- leaved	Total.	Coni- fer- ous.	Broad- leaved.	Total.	(Acros)
1938	England & Walcs.	2,598	94,492	97,090	64,758	13,638	78,396	138,029	7,600	45,638	618
	Scotland	8,851	5,270	7,921	39,127	1,077	40,804	92,945	45,196	138,141	400
	Total	5,249	99,762	105,011	105,885	14,715	118,600	230,974	52,805	383,779	1,018
1937	England & Fales.	6,818	100,917	107,735	45,188	10,659	55,827	197,422	16,903	214, 325	615
	Scotland	4,337	11,347	15,684	31,989	948	32,873	108,298	1,807	110,105	870
	Total	11,155	112,264	125,419	77,117	11,565	<b>38,70</b> 2	305,720	18,710	524,430	985
1939	England & Fales	3, 363	63.118	AA. 581	78,575	8,994	87,497	93.815	15,748	109.361	636
	Scotland	2,519	2,895	-	46, 262	1	47,216	79,125	2,518	81,445	41.5
	Total	5,782	66,013	71,705	194,635	9,878	134,718	172,988	18,066	191,004	1051

#### Nurseries.

Details showing by Divisions the utilisation of nursery area are as follows :-

Division.	Seedboda.	Lines.	Fallow & Green Cropa.	Other.	Total.
England & Nalos -	Acres.	Aores.	Aores.	Acres.	Agres.
N.S	18.5	72	3.0	16.1	110.2
N.V	8.1	16.3	8.4	2.7	35.5
2	30.6	59.4	16.2	21.7	127.9
3.E	16.2	33	10.1	8	67.3
S.W	6.4	12.7	3.6	7.1	29.8
New	15.2	18.3	8.5	3.4	45.2
Dean	7.3	18.5	10.2	4.9	38.9
N. (Nales)	19.3	42.8	14.5	13.9	90.5
S.(Kales)	. 14.5	41.8	18.9	15.4	90.4
Fotal	135.9	312.6	94	93.2	635.7
Scotland -					
North	19.8	55	18.5	12.3	35.6
south	9.1	20.9	16	10.9	56.9
East	22.2	47.6	19.2	23.3	112.3
West	37.9	71.8	56.9	15.9	160.8
Total		175.3	90.6	60,4	415.8
Total,Great Britain	224.9	487.9	184.6	153.6	1051.

Utilisation of Nursery Area.

Seed Supply. - The 1958 group of Sitks spruce failed in Canada and was poor in the United States, but there were good supplies of Douglas fir. There was a fair crop of Japanese larch. On the continent, European larch failed completely but, so far as could be ascertained, there was a good crop of Horway spruce, it being unnecessary to purchase seed from abroad as sufficient stocks of 1957 supplies were brought forward; Corsican pine seed was scarce and there was only a moderate crop of beech.

As regards home-collected seed, sufficient comes of Scots pine were obtainable and a small quantity of European and Japanese larch seed was collected. There was enough ash, birch, chestaut and sycamore seed for all requirements but a shortage of beech mast. The crop of acorns was poor in many districts and an insufficient quantity was obtained.

Gifts of seed were received from Professor Dracea (Rumania) and from Lord Dyneover.

<u>Forest Pires</u>. - There was a considerable drop in the number of forest fires, which amounted to 355 compared with 1,144 in 1936 and 438 in 1937. The damage was, however, proportionately greater, the value being assessed at £19,465 compared with £39,910 in 1938 and £2,140 in 1937. Half the damage in 1939 was done in a series of fires which occurred at Culbin during the first week in June.

Comparative figures for the five years 1935 to 1939 are given below.

	1935.	1936.	1937.	1938.	1939.
Number of fires	. 487	407	458	1,144	355
Area burnt (acres)	. 270	1,583	126	2,056	975
Damage valued at	.24,090	.630,170	£2,140	£39 <b>,9</b> 10	£19,465

In addition five fires caused damage to buildings amounting to £18.

Claims aggregating £1,150 have been ledged by the Commissioners in respect of the damage done during the year.

The following table gives the causes of fires in 1939 and it will be seen that most fires originated in sparks from railway engines, but a very large number ( ) were caused by the general public mainly as the result of carelessness.

Origin.	Number of Fires.	Fercentage of total Number.
Railways	151	42
Ceneral public:		
From public roads, etc	29	
Other	20	6
Adjoining land	4.6	13
Incondiariam	12	3
Commission's employees	7	2
Road engines	5	1
Other	, 7	*
Unknown	. 81	25
Totals	356	100

## Forestry Commission Units.

ENGLAND AND WALES.

- I. Chopwell, Durham.\*
- 2. Delamere, Cheshire.\*
- 3. Hafod Fawr, Merioneth.\*
- 4. Dean Forest, Gloucester, Hereford and Monmouth.\*
- 5. Tintern, Monmouth.\*
- 6. Dymock, Gloucester and Hereford.\*
- 7. Salcey, Bucks and Northampton.\*
- 8. Hazelborough, Bucks and Northampton.\*
- 9. Alice Holt, Hants.\*
- 10. Woolmer, Hants.\*
- 11. Bere, Hants.\*
- 12. New Forest, Hants.\*
- 13. Parkhurst, Isle of Wight.\*
- 14. Bedgebury, Kent and Sussex.\*
- 15. Rothbury, Northumberland.
- 16. Thornthwaite, Cumberland.
- 17. Allerston, Yorks.
- 18. Selby, Yorks.
- 19. Gwydyr, Caernarvon and Denbigh.
- 20. Coed-y-Brenin, Merioneth.
- 21. Cannock Chase, Stafford.
- 22. Rockingham, Northampton.
- 23. Swaffham, Norfolk.
- 24. Thetford Chase, Norfolk and Suffolk.
- 25. Rendlesham, Suffolk.
- 26. Ampthill, Bedford.

- 27. Mortimer, Hereford, Radnor and Salop.
- 28. Walcot, Salop.
- 29. Kerry, Montgomery and Salop.
- 30. Rheola, Glamorgan.
- 31. Margam, Glamorgan.
- 32. Llantrisant, Glamorgan.
- 33. Llanover, Monmouth.
- 34. Chepstow, Monmouth.
- 35. Bodmin, Cornwall.
- 36. Halwill, Devon.
- 37. Haldon, Devon.
- 38. Eggesford, Devon.
- 39. Brendon, Somerset.
- 40. Quantocks, Somerset.
- 41. Wareham, Dorset.
- 42. Bramshill, Berks and Hants.
- 43. Chiddingfold, Surrey and Sussex.
- 44. Ennerdale, Cumberland.
- 45. Clipstone, Derby and Nottingham.
- 46. Beddgelert, Caernarvon.
- 47. Cynwyd, Merioneth.
- 48. Dovey, Merioneth and Montgomery.
- 49. Radnor, Radnor.
- 50. Lyminge, Kent.
- 51. Kielder, Northumberland.
- 52. Haugh, Hereford.
- 53. Wyre, Worcester.

\* Former Crown woods.

<ul> <li>J. Brechia, Carmarthen.</li> <li>S. Bardney, Lincoln.</li> <li>S. Carbigan, Cornwall.</li> <li>S. Saley, Northumberland.</li> <li>S. Caley, Northumberland.</li> <li>S. Caley, Northumberland.</li> <li>S. Caley, Northumberland.</li> <li>S. Caie, Carmarthen.</li> <li>Sandrey, Kalnor</li> <li>Sandrey, Kalnor</li> <li>Sandrey, Kalnor</li> <li>Sandrey, Kalnor</li> <li>Sandrey, Sandrey, Kalnor</li> <li>Sandrey, Sandrey, Kalnor</li> <li>Sandrey, Sandrey, Kalnor</li> <li>Sandrey, Sandrey, Sandrey, Kalnor</li> <li>Sandrey, Sandrey, Kalnor</li> <li>Sandrey, Sandrey, Kalno</li></ul>	54.	Brecon, Brecknock.	<u>90</u> .	Dartmoor, Devon.
<ul> <li>Ringwood, Dorset and Hants.</li> <li>Bourne, Lincoln and Rutland.</li> <li>Hamsterley, Durham.</li> <li>Hope, Derby.</li> <li>Laughton, Lincoln.</li> <li>Friston, Sussex.</li> <li>Micheldever, Hants.</li> <li>Ferndown, Dorset.</li> <li>Glasfynydd, Brecknock.</li> <li>Rosedale, Yorks.</li> <li>Harknott, Cumberland.</li> <li>Responder, Mits.</li> <li>Sherwood, Nottingham.</li> <li>Sedbury, Gloucester. †</li> <li>Saley, Northumberland.</li> <li>Sondrafe, Wilts.</li> <li>Siley, Northumberland.</li> <li>Sondrafe, Yorks.</li> <li>Siley, Northumberland.</li> <li>Cloicaenog, Denbigh and Merioneth.</li> <li>Susten, Yorks.</li> <li>Saley, Northumberland.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Saverouke, Yorks.</li> <li>Saverouke,</li></ul>	-		-	
<ul> <li>57. Bourne, Lincoln and Rutland.</li> <li>58. Hamsterley, Durham.</li> <li>59. Hope, Derby.</li> <li>60. Laughton, Lincoln.</li> <li>61. Friston, Sussex.</li> <li>62. Micheldever, Hants.</li> <li>63. Ferndown, Dorset.</li> <li>64. Wilsey Down, Cornwall.</li> <li>65. Glasfynydd, Brecknock.</li> <li>66. Rosedale, Yorks.</li> <li>67. Ampleforth, Yorks.</li> <li>68. Cwmeinion, Cardigan.</li> <li>69. Tarenig, Cardigan and Montgomery.</li> <li>70. Mathrafal, Montgomery.</li> <li>71. Pembrey, Carmarthen.</li> <li>72. Westbury, Hants.</li> <li>73. Buriton, Hants and Sussex.</li> <li>74. Bawtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>70. Myherin, Cardigan.</li> <li>71. Harwood, Northumberland.</li> <li>72. Kershope, Cumberland.</li> <li>73. Buriton, Somerset and Wilts.</li> <li>74. Brighstone, Isle of Wight.</li> <li>75. Slaley, Northumberland.</li> <li>76. Clocaenog, Denbigh and Merioneth.</li> <li>77. Dyfnant, Montgomery.</li> <li>78. Caio, Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. Carmarthen.</li> <li>72. Coed Surnew, Rajnor (2000)</li> <li>73. Caio, Carmarthen.</li> <li>74. Bawery, Kangan.</li> <li>75. Shereknock and Carmarthen.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Grychan, Brecknock and Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. Carmarthen.</li> <li>72. Coed Surnew, Rajnor (2000)</li> <li>73. Saeronke, Withs.</li> <li>74. Bardney, Lincoln.</li> <li>75. Sherwood, Notriumberland.</li> <li>76. Swanton, Somerset and Wilts.</li> <li>77. Burkin, Saeron, Saeronke, Withs.</li> <li>78. Wendover, Elocks.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. Saerona, Kangan, Kanga</li></ul>			9-1	
<ul> <li>Hamsterley, Durham.</li> <li>Hope, Derby.</li> <li>Laughton, Lincoln.</li> <li>Friston, Sussex.</li> <li>Micheldever, Hants.</li> <li>Ferndown, Dorset.</li> <li>Glasfynydd, Brecknock.</li> <li>Rosedale, Yorks.</li> <li>Caraenig, Cardigan.</li> <li>Tarenig, Cardigan.</li> <li>Montgomery.</li> <li>Pembrey, Carmarthen.</li> <li>Sherwood, Nottingham.</li> <li>Sherwood, Nothumberland.</li> <li>Gravetye, Sussex.</li> <li>Sialey, Northumberland.</li> <li>Clocaenog, Denbigh and Merioneth.</li> <li>Corbley, Isle of Wight.</li> <li>Sialey, Northumberland.</li> <li>Clocaenog, Denbigh and Merioneth.</li> <li>Soudale, Yorks.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Sacobley, Isle of Wight.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Sacobley, Isle of Wight.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Sacobley, Isle of Wight.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Sacobley, Isle of Wight.</li> <li>Sh</li></ul>	-		92.	Arkengarthdale, Yorks.
<ul> <li>Hope, Derby.</li> <li>Laughton, Lincoln.</li> <li>Friston, Sussex.</li> <li>Micheldever, Hants.</li> <li>Ferndown, Dorset.</li> <li>Ferndown, Dorset.</li> <li>Glasfynydd, Brecknock.</li> <li>Montgomery.</li> <li>Tarenig, Cardigan and Montgomery.</li> <li>Tarenig, Cardigan and Montgomery.</li> <li>Tarenig, Cardigan and Montgomery.</li> <li>Mathrafal, Montgomery.</li> <li>Mathrafal, Montgomery.</li> <li>Buriton, Hants and Sussex.</li> <li>Sherwood, Nottingham.</li> <li>Swanton, Norfolk.</li> <li>Brynmawr, Cardigan.</li> <li>Brynawr, Cardigan.</li> <li>Harwood, Northumberland.</li> <li>Kershope, Cumberland.</li> <li>Combley, Isle of Wight.</li> <li>Slaley, Northumberland.</li> <li>Combley, Isle of Wight.</li> <li>Slaley, Northumberland.</li> <li>Cocaenog, Denbigh and Merioneth.</li> <li>Dyfnant, Montgomery.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Sacidale, Yorks.</li> <li>Sacidale, Yorks.</li> <li>Sacidale, Yorks.</li> <li>Sacidale, Yorks.</li> <li>Sacidale, Yorks.</li> <li>Sacidale, Yorks.</li> <li>Wilhingham, Lincoln.</li> <li>Geidd, Brecknock.</li> <li>Swendover, Boycks.</li> <li>Wardser, Kayhor, Kay</li></ul>			93.	
<ul> <li>Laughton, Lincoln.</li> <li>Friston, Sussex.</li> <li>Micheldever, Hants.</li> <li>Ferndown, Dorset.</li> <li>Glasfynydd, Brecknock.</li> <li>Glasfynydd, Brecknock.</li> <li>Rosedale, Yorks.</li> <li>Glasfynydd, Brecknock.</li> <li>Rosedale, Yorks.</li> <li>Challock, Kent.</li> <li>Challock, Kent.</li> <li>Sourding Cardigan and Montgomery.</li> <li>Mathrafal, Montgomery.</li> <li>Mathrafal, Montgomery.</li> <li>Pembrey, Carmarthen.</li> <li>West Woods, Wilts.</li> <li>Lydford, Devon.</li> <li>Hardknott, Cumberland.</li> <li>Langdale, Yorks.</li> <li>Hardknott, Cumberland.</li> <li>Langdale, Yorks.</li> <li>Hardknott, Cumberland.</li> <li>Kershope, Cumberland.</li> <li>Kershope, Cumberland.</li> <li>Slaley, Northumberland.</li> <li>Slaley, Northumberland.</li> <li>Clocaenog, Denbigh and Merioneth.</li> <li>Caio, Carmarthen.</li> <li>Caio,</li></ul>	59.	Hope, Derby.		
<ul> <li>briston, Sussex.</li> <li>briston, Cardigan.</li> <li>contexponent of the section of th</li></ul>	60.	Laughton, Lincoln.		·
<ul> <li>Micheldever, Hants.</li> <li>Ferndown, Dorset.</li> <li>Glasfynydd, Brecknock.</li> <li>Greystoke, Cumberland.</li> <li>Greystoke, Cumberland.</li> <li>Glasfystone, Isle of Wight.</li> <li>Slaley, Northumberland.</li> <li>Clocaenog, Denbigh and Merioneth.</li> <li>Dyfnant, Montgomery.</li> <li>Caio, Carmarthen.</li> <li>Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Carmarthen.</li> <li>Caio, Car</li></ul>	61.	Friston, Sussex.		
<ul> <li>63. Ferndown, Dorset.</li> <li>64. Wilsey Down, Cornwall.</li> <li>65. Glasfynydd, Brecknock.</li> <li>76. Rosedale, Yorks.</li> <li>77. Ampleforth, Yorks.</li> <li>78. Cwmeinion, Cardigan and Montgomery.</li> <li>79. Tarenig, Cardigan and Montgomery.</li> <li>70. Mathrafal, Montgomery.</li> <li>71. Pembrey, Carmarthen.</li> <li>72. Westbury, Hants.</li> <li>73. Buriton, Hants and Sussex.</li> <li>74. Bawtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>81. Harwood, Northumberland.</li> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthe</li></ul>	62.	Micheldever, Hants.	-	•
<ul> <li>64. Wilsey Down, Cornwall.</li> <li>65. Glasfynydd, Brecknock.</li> <li>66. Rosedale, Yorks.</li> <li>67. Ampleforth, Yorks.</li> <li>68. Cwmeinion, Cardigan.</li> <li>69. Tarenig, Cardigan and Montgomery.</li> <li>70. Mathrafal, Montgomery.</li> <li>71. Pembrey, Carmarthen.</li> <li>72. Westbury, Hants.</li> <li>73. Buriton, Hants and Sussex.</li> <li>74. Bawtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>70. Myherin, Cardigan.</li> <li>71. Harwood, Northumberland.</li> <li>72. Combley, Isle of Wight.</li> <li>73. Slaley, Northumberland.</li> <li>74. Brighstone, Isle of Wight.</li> <li>75. Slaley, Northumberland.</li> <li>76. Clocaenog, Denbigh and Merioneth.</li> <li>77. Dyfnant, Montgomery.</li> <li>78. Crychan, Brecknock and Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. Dyfnant, Montgomery.</li> <li>72. Coed Surnau, Radinor field.</li> <li>73. Buriton, Brecknock and Carmarthen.</li> <li>74. Bawtry, Nothumberland.</li> <li>75. Sherwood, Nothumberland.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Graychan, Brecknock and Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. Brecknock and Carmarthen.</li> <li>72. Coed Surnau, Radinor field, Scarchale, Yorks.</li> <li>73. Suremuke, Wilfs.</li> <li>74. Sarchale, Yorks.</li> <li>75. Sherwook, Wilfs.</li> <li>76. Sarchale, Yorks.</li> <li>77. Dyfnathen.</li> <li>78. Coed Surnau, Radinor field, Scarchale, Yorks.</li> <li>79. Caio, Carmarthen.</li> <li>70. Sarchale, Yorks.</li> <li>71. Sarchale, Wilfs.</li> <li>72. Coed Surnau, Radinor field.</li> <li>73. Suremuke, Wilfs.</li> <li>74. Sarchale, Yorks.</li> <li>75. Sherwook, Wilfs.</li> <li>76. Sarchale, Yorks.</li> <li>77. Durkich, Surgen, Scarchale, Yorks.</li> <li>78. Sarchale, Wilfs.</li> <li>79. Sarchale, Yorks.<td>63.</td><td>Ferndown, Dorset.</td><td></td><td>·</td></li></ul>	63.	Ferndown, Dorset.		·
<ul> <li>65. Glasfynydd, Brecknock.</li> <li>76. Rosedale, Yorks.</li> <li>77. Ampleforth, Yorks.</li> <li>78. Tarenig, Cardigan and Montgomery.</li> <li>79. Mathrafal, Montgomery.</li> <li>70. Mathrafal, Montgomery.</li> <li>71. Pembrey, Carmarthen.</li> <li>72. Westbury, Hants.</li> <li>73. Buriton, Hants and Sussex.</li> <li>74. Bawtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>70. Myherin, Cardigan.</li> <li>71. Harwood, Northumberland.</li> <li>72. Kershope, Cumberland.</li> <li>73. Slaley, Northumberland.</li> <li>74. Brighstone, Isle of Wight.</li> <li>75. Slaley, Northumberland.</li> <li>76. Clocaenog, Denbigh and Merioneth.</li> <li>77. Dyfnant, Montgomery.</li> <li>78. Crychan, Brecknock and Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. Dyfnant, Montgomery.</li> <li>72. Geed Surnow, Radoor (2000)</li> <li>73. Cord-y-Rhaiade, Brecknock.</li> <li>74. Michaelston, Glamorgan.</li> <li>75. Shereknock.</li> <li>76. Swardole, Yorks.</li> <li>77. Dyfnant, Montgomery.</li> <li>78. Crychan, Brecknock and Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. Surera, Ke, Wilfs. (2000)</li> <li>76. Surera, Ke, Wilfs. (2000)</li> </ul>	64.	Wilsey Down, Cornwall.	-	-
<ul> <li>66. Rosedale, Yorks.</li> <li>67. Ampleforth, Yorks.</li> <li>68. Cwmeinion, Cardigan.</li> <li>69. Tarenig, Cardigan and Montgomery.</li> <li>70. Mathrafal, Montgomery.</li> <li>71. Pembrey, Carmarthen.</li> <li>72. Westbury, Hants.</li> <li>73. Buriton, Hants and Sussex.</li> <li>74. Bawtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>70. Myherin, Cardigan.</li> <li>71. Harwood, Northumberland.</li> <li>72. Kershope, Cumberland.</li> <li>73. Combley, Isle of Wight.</li> <li>74. Brighstone, Isle of Wight.</li> <li>75. Slaley, Northumberland.</li> <li>76. Clocaenog, Denbigh and Merioneth.</li> <li>77. Dyfnant, Montgomery.</li> <li>78. Crychan, Brecknock and Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. Cardigan.</li> <li>72. Westbury, Hants.</li> <li>73. Burton, Somerset and Wilts.</li> <li>74. Hary, Hereford.</li> <li>75. Shaley, Northumberland.</li> <li>76. Support, Secondule, Yorks.</li> <li>77. Dyfnant, Montgomery.</li> <li>78. Caio, Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. Carmarthen.</li> <li>72. Coed Surnow, Radnor Kestonek, Kest</li></ul>	65.	Glasfynydd, Brecknock.		
<ul> <li>Ampleforth, Yorks.</li> <li>Cwmeinion, Cardigan.</li> <li>Tarenig, Cardigan and Montgomery.</li> <li>Mathrafal, Montgomery.</li> <li>Mathrafal, Montgomery.</li> <li>Pembrey, Carmarthen.</li> <li>Pembrey, Carmarthen.</li> <li>Pembrey, Carmarthen.</li> <li>Buriton, Hants and Sussex.</li> <li>Bawtry, Nottingham.</li> <li>Sherwood, Nottingham.</li> <li>Sedbury, Gloucester. †</li> <li>Warke, Northumberland.</li> <li>Sershope, Cumberland.</li> <li>Kershope, Cumberland.</li> <li>Combley, Isle of Wight.</li> <li>Silaley, Northumberland.</li> <li>Condbey, Isle of Wight.</li> <li>Silaley, Northumberland.</li> <li>Condberg, Denbigh and Merioneth.</li> <li>Cirychan, Brecknock and Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Carmarthen.</li> <li>Carmart</li></ul>	66.	Rosedale, Yorks.		
<ul> <li>68. Cwmeinion, Cardigan.</li> <li>69. Tarenig, Cardigan and Montgomery.</li> <li>70. Mathrafal, Montgomery.</li> <li>70. Mathrafal, Montgomery.</li> <li>71. Pembrey, Carmarthen.</li> <li>72. Westbury, Hants.</li> <li>73. Buriton, Hants and Sussex.</li> <li>74. Bawtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>76. Myherin, Cardigan.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>76. Myherin, Cardigan.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>70. Myherin, Cardigan.</li> <li>71. Harwood, Northumberland.</li> <li>73. Combley, Isle of Wight.</li> <li>74. Bighstone, Isle of Wight.</li> <li>75. Slaley, Northumberland.</li> <li>76. Clocaenog, Denbigh and Carmarthen.</li> <li>77. Dyfnant, Montgomery.</li> <li>78. Crychan, Brecknock and Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. Caio, Carmarthen.</li> <li>72. Coed Surnau, Rajnor (28 Wendover, Euckis, (27 Coed Surnau, Rajnor (28 Wendover,</li></ul>	67.	Ampleforth, Yorks.		•
<ul> <li>b9. Tareng, Cardigan and Montgomery.</li> <li>c) Mathrafal, Montgomery.</li> <li>c) Hafren, Montgomery.</li> <li>c) Gravetye, Sussex.</li> <li>c) Mathrafal.</li> <li>c) Gravetye, Sussex.</li> <li>c) Grav</li></ul>	68.	Cwmeinion, Cardigan.		•
<ul> <li>Mathrafal, Montgomery.</li> <li>Mathrafal, Montgomery.</li> <li>Pembrey, Carmarthen.</li> <li>Westbury, Hants.</li> <li>Buriton, Hants and Sussex.</li> <li>Bawtry, Nottingham.</li> <li>Gravetye, Sussex.</li> <li>Gravetye, Sussex.</li> <li>Gravetye, Sussex.</li> <li>Sherwood, Nottingham.</li> <li>Sedbury, Gloucester. †</li> <li>Swanton, Norfolk.</li> <li>Warke, Northumberland.</li> <li>Brynmawr, Cardigan.</li> <li>Bruton, Somerset and Wilts.</li> <li>Myherin, Cardigan.</li> <li>Harwood, Northumberland.</li> <li>Kershope, Cumberland.</li> <li>Kershope, Cumberland.</li> <li>Combley, Isle of Wight.</li> <li>Slaley, Northumberland.</li> <li>Clocaenog, Denbigh and Merioneth.</li> <li>Dyfnant, Montgomery.</li> <li>Crychan, Brecknock and Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Combley, Gravetye, Sussex.</li> <li>Tool. Gardiner, Wilts.</li> <li>Gardiner, Wilts.</li> <li>Coed-y-Rhaiadr, Brecknock.</li> <li>Combourt, Eyek3.</li> <li>Saardule, Yorks.</li> <li>Saardule, Wilts.</li> </ul>	69.		-	-
<ul> <li>Mathiali, Moltgonery.</li> <li>Pembrey, Carmarthen.</li> <li>Westbury, Hants.</li> <li>Buriton, Hants and Sussex.</li> <li>Bawtry, Nottingham.</li> <li>Bawtry, Nottingham.</li> <li>Gravetye, Sussex.</li> <li>Gravetye, Sussex.</li> <li>Greystoke, Cumberland.</li> <li>Sherwood, Nottingham.</li> <li>Swanton, Norfolk.</li> <li>Warke, Northumberland.</li> <li>Brynmawr, Cardigan.</li> <li>Bruton, Somerset and Wilts.</li> <li>Myherin, Cardigan.</li> <li>Harwood, Northumberland.</li> <li>Kershope, Cumberland.</li> <li>Kershope, Cumberland.</li> <li>Kershope, Cumberland.</li> <li>Combley, Isle of Wight.</li> <li>Slaley, Northumberland.</li> <li>Clocaenog, Denbigh and Merioneth.</li> <li>Dyfnant, Montgomery.</li> <li>Crychan, Brecknock and Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Combley, Slaley, Wilts.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Carmarthen.</li> <li>Caio, Carmarthen.</li> <li>Carmarthen.</li> <li>Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Carmarthen.</li> <li>Carmarthen.</li> <li>Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Carmarthen.</li> <li>Carmarthen.</li> <li>Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Comboly Carmarthen.</li> <li>Carmarthen.</li> <li>Carmarthen.</li> <li>Carm</li></ul>		- •		•
<ul> <li>71. Feinbrey, Camarthen.</li> <li>72. Westbury, Hants.</li> <li>73. Buriton, Hants and Sussex.</li> <li>74. Bawtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>81. Harwood, Northumberland.</li> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>71. Terminely, Camarthen.</li> <li>72. Westbury, Hants.</li> <li>73. Buriton, Hants and Sussex.</li> <li>74. Bawtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>70. Myherin, Cardigan.</li> <li>71. Harwood, Northumberland.</li> <li>71. Hartland, Devon.</li> <li>72. Giedd, Brecknock.</li> <li>73. Coed Surnau, Radnor</li> <li>74. Wichaelston, Glamorgan.</li> <li>75. Savernauke, Wilts.</li> <li>76. Savernauke, Wilts.</li> <li>77. Duffant, Montgomery.</li> <li>78. Wendover, Bucks.</li> <li>79. Savernauke, Wilts.</li> </ul>	70.	- <b>-</b>	-	
<ul> <li>73. Buriton, Hants and Sussex.</li> <li>74. Bawtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>81. Harwood, Northumberland.</li> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>74. Buwtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>70. Dyfnant, Montgomery.</li> <li>71. Dyfnant, Montgomery.</li> <li>72. Caed Surnaw, Radnor (28 Wendover, Eugeks.</li> <li>73. Buriton, Somerset.</li> <li>74. Michaelston, Glamorgan.</li> <li>76. Seardule, Yorks.</li> <li>77. Dyfnak, Wilts.</li> <li>77. Dyfnant, Montgomery.</li> <li>78. Caio, Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Caio, Carmarthen.</li> <li>71. State of Wight.</li> <li>72. Card Surnaw, Radnor (28 Wendover, Eugeks.</li> <li>73. Sayernake, Wilts.</li> <li>73. Sayernake, Wilts.</li> </ul>	7 <b>1</b> .	•		
<ul> <li>74. Bawtry, Nottingham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>81. Harwood, Northumberland.</li> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>70. Sunton, Nottingham.</li> <li>71. Dunwich, Suffolk.</li> <li>72. Ged Jarnau, Radnor (2000)</li> <li>73. Subtraction of the sector of</li></ul>	72.	•	•	<b>u</b>
<ul> <li>74. Dawly, Rothigham.</li> <li>75. Sherwood, Nottingham.</li> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>71. Harwood, Northumberland.</li> <li>72. Kershope, Cumberland.</li> <li>73. Combley, Isle of Wight.</li> <li>74. Harwood, Northumberland.</li> <li>75. Slaley, Northumberland.</li> <li>76. Slaley, Northumberland.</li> <li>77. Dyfnant, Montgomery.</li> <li>78. Crychan, Brecknock and Carmarthen.</li> <li>79. Caio, Carmarthen.</li> <li>70. Dyfnant, Montgomery.</li> <li>71. Coed Surnau, Raynor</li> <li>72. Coed Surnau, Raynor</li> <li>73. Sherwood, Nottingham.</li> <li>74. Warke, Northumberland.</li> <li>75. Staley, Northumberland.</li> <li>76. Coed Surnau, Raynor</li> <li>77. Dyfnant, Samer, Surechake, Wilfs.</li> <li>78. Coed Surnau, Raynor</li> <li>79. Coed Surnau, Raynor</li> <li>79. Savernake, Wilfs.</li> <li>70. Coed Surnau, Raynor</li> </ul>	73.	-		-
<ul> <li>76. Swanton, Norfolk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>71. Harwood, Northumberland.</li> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Chychan and Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Brighstone, Isle of Wight.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Caio, Carmarthen.</li> <li>86. Clocaenog, Denbigh and Carmarthen.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Charney, Kadnor (28) Wendover, Eucks.</li> <li>83. Wendover, Eucks.</li> <li>84. Brighstone, Brecknock (24) Wendover, Eucks.</li> <li>85. Carney, Wilts.</li> <li>86. Crychan, Brecknock (24) Wendover, Eucks.</li> <li>87. Coed Sarney, Kadnor (28) Wendover, Eucks.</li> <li>88. Wendover, Eucks.</li> <li>89. Caio, Carmarthen.</li> </ul>	74.	Bawtry, Nottingham.	-	-
<ul> <li>70. Swanton, Nortonk.</li> <li>77. Dunwich, Suffolk.</li> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>81. Harwood, Northumberland.</li> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Carmarthen.</li> <li>81. Brighstone, Isle of Wight.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Carmarthen.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>82. Crychan, Brecknock and Carmarthen.</li> <li>83. Caio, Carmarthen.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>83. Caio, Carmarthen.</li> <li>84. Bright Complexity of the state of t</li></ul>		5		•
<ul> <li>78. Brynmawr, Cardigan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>81. Harwood, Northumberland.</li> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Hawood, Northumberland.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>81. Brighstone.</li> <li>82. Crychan, Brecknock and Carmarthen.</li> <li>83. Caio, Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Caio, Carmarthen.</li> <li>86. Caio, Carmarthen.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Brecknock and Carmarthen.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Brecknock and Carmarthen.</li> <li>85. Caio, Carmarthen.</li> <li>86. Chorney, Comparison (Comparison), Comparison (</li></ul>	76.			
<ul> <li>70. Brynnawr, Carligan.</li> <li>79. Bruton, Somerset and Wilts.</li> <li>80. Myherin, Cardigan.</li> <li>81. Harwood, Northumberland.</li> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Dyfnant, Montgomery.</li> <li>82. Crychan, Brecknock and Carmarthen.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Dyfnant, Montgomery.</li> <li>82. Crychan, Brecknock and Carmarthen.</li> <li>83. Caio, Carmarthen.</li> <li>84. Dyfnant, Montgomery.</li> <li>85. Chychan, Brecknock and Carmarthen.</li> <li>86. Clocaenog, Denbigh and Carmarthen.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Chychan Charney, Coed Surney, Radnor (2000)</li> <li>81. Coed Surney, Wilts.</li> <li>82. Crychan Chychan Ch</li></ul>		Dunwich, Suffolk.		-
<ul> <li>80. Myherin, Cardigan.</li> <li>81. Harwood, Northumberland.</li> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>814. Hay, Hereford.</li> <li>815. St. Gwynno, Glamorgan.</li> <li>816. Mendip, Somerset.</li> <li>817. Hartland, Devon.</li> <li>818. Marden, Sussex.</li> <li>819. Willingham, Lincoln.</li> <li>810. Gardiner, Wilts.</li> <li>812. Usk, Brecknock.</li> <li>812. Coed-y-Rhaiadr, Brecknock.</li> <li>813. Caio, Carmarthen.</li> <li>814. Hay, Hereford.</li> <li>814. Hay, Hereford.</li> <li>814. Hay, Hereford.</li> <li>815. St. Gwynno, Glamorgan.</li> <li>816. Mendip, Somerset.</li> <li>817. Hartland, Devon.</li> <li>818. Marden, Sussex.</li> <li>820. Caio, Carmarthen.</li> <li>831. Caio, Carmarthen.</li> <li>841. Hay, Hereford.</li> <li>852. St. Gwynno, Glamorgan.</li> <li>853. Crychan, Brecknock and Carmarthen.</li> <li>854. Crychan, Brecknock and Carmarthen.</li> <li>855. Caidole, Yorks.</li> <li>856. Clocaender, Wilts.</li> <li>857. Coed Surnau, Radnor</li> <li>858. Wendover, Bucks.</li> <li>859. Caidole, Wilts.</li> <li>850. Caidole, Wilts.</li> <li>851. Complexity of the state of the s</li></ul>	•		113.	0 5 2
<ul> <li>81. Harwood, Northumberland.</li> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Harwood, Northumberland.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Caio, Carmarthen.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Carmarthen.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Caio, Carmarthen.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Crychan, Brecknock and Carmarthen.</li> <li>86. Crychan, Brecknock and Carmarthen.</li> <li>87. Coed Surnau, Radnor (28) Wendover, Bucks.</li> <li>88. Crychan, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Crychan, Brecknock and Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Caio, Carmarthen.</li> <li>82. Crychan, Brecknock and Carmarthen.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Crychan, Brecknock and Carmarthen.</li> <li>86. Caio, Carmarthen.</li> <li>87. Coed Surnau, Radnor (28) Wendover, Carmarthen.</li> <li>88. Crychan, Carmarthen.</li> <li>89. Caio, Carmarth</li></ul>	-		114.	Hay, Hereford.
<ul> <li>82. Kershope, Cumberland.</li> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>82. Caio, Carmarthen.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Caio, Carmarthen.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Coed Surnau, Radnor 1/28. Wendover, Bucks.</li> <li>83. Crychan, Surgernake, Wilts.</li> <li>84. Dyfnant, Montgomery.</li> <li>85. Crychan, Brecknock and Carmarthen.</li> <li>86. Clocaenog, Denbigh and Carmarthen.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Coed Surnau, Radnor 1/28. Wendover, Bucks.</li> <li>83. Coed Surnau, Wilts.</li> <li>84. State 20. Savernake, Wilts.</li> <li>85. Savernake, Wilts.</li> </ul>			115.	St. Gwynno, Glamorgan.
<ul> <li>83. Combley, Isle of Wight.</li> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>82. Crychan, Brecknock and Carmarthen.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Caio, Carmarthen.</li> <li>86. Caio, Carmarthen.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>817. Hartland, Devon.</li> <li>818. Marden, Sussex.</li> <li>819. Wendover, Bucks.</li> <li>82. Crychan, Brecknock and Carmarthen.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Caio, Carmarthen.</li> <li>86. Caio, Carmarthen.</li> <li>87. Dyfnant, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Brecknock and Carmarthen.</li> <li>85. Caio, Carmarthen.</li> <li>86. Caio, Carmarthen.</li> <li>87. Coed Sarnau, Radnor (28. Wendover, Bucks).</li> <li>88. Crychan, Brecknok and Carmarke, Wilts.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Crychan, Carmarthen.</li> <li>82. Crychan, Carmarthen.</li> <li>83. Crychan, Carmarthen.</li> <li>84. Brecknock and Carmarthen.</li> <li>85. Crychan, Carmarthen.</li> <li>86. Crychan, Carmarthen.</li> <li>87. Coed Sarnau, Radnor (28. Wendover, Carmarthen).</li> <li>88. Crychan, Carmarthen.</li> <li>89. Coed Sarnau, C</li></ul>			116.	Mendip, Somerset.
<ul> <li>84. Brighstone, Isle of Wight.</li> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>818. Marden, Sussex.</li> <li>119. Willingham, Lincoln.</li> <li>120. Gardiner, Wilts.</li> <li>121. Usk, Brecknock.</li> <li>122. Giedd, Brecknock.</li> <li>123. Coed-y-Rhaiadr, Brecknock.</li> <li>124. Michaelston, Glamorgan.</li> <li>125. Cwmogwr, Glamorgan.</li> <li>126. Seardale, Yorks.</li> <li>127. Coed Sarnav, Radnor</li> <li>128. Wendover, Bucks.</li> <li>129. Savernake, Wilts.</li> </ul>		<b>*</b>	117.	Hartland, Devon.
<ul> <li>85. Slaley, Northumberland.</li> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Crychan, Brecknock and Carmarthen.</li> <li>86. Crychan, Brecknock and Carmarthen.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>819. Wendover, Bucks.</li> <li>80. Caio, Carmarthen.</li> <li>810. Coed Sarnau, Radnor 128. Wendover, Bucks.</li> <li>810. Wendover, Wilts.</li> <li>8110. Willingham, Lincoln.</li> <li>810. Gardiner, Wilts.</li> <li>812. Gardiner, Wilts.</li> <li>812. Coed Sarnau, Radnor 128. Wendover, Bucks.</li> <li>82. Savernuke, Wilts.</li> </ul>	-		118.	Marden, Sussex.
<ul> <li>86. Clocaenog, Denbigh and Merioneth.</li> <li>87. Dyfnant, Montgomery.</li> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>80. Caio, Carmarthen.</li> <li>81. Crychan, Brecknock and Carmarthen.</li> <li>81. Coed-y-Rhaiadr, Brecknock.</li> <li>82. Coed-y-Rhaiadr, Brecknock.</li> <li>83. Crychan, Brecknock and Carmarthen.</li> <li>84. Crychan, Brecknock and Carmarthen.</li> <li>85. Crychan, Carmarthen.</li> <li>86. Crychan, Brecknock and Carmarthen.</li> <li>87. Coed Sarnau, Radnor 128. Wendover, Bucks.</li> <li>88. Crychan, Coed Sarnau, Carmar, 129. Savernuke, Wilts.</li> </ul>		- 0	119.	Willingham, Lincoln.
Merioneth. 87. Dyfnant, Montgomery. 88. Crychan, Brecknock and Carmarthen. 89. Caio, Carmarthen. 89. Caio, Carmarthen. 80. Caio, Caio, Carmarthen. 80. Caio, Caio, Caio, Caio, Ca	-		120.	Gardiner, Wilts.
<ul> <li>88. Crychan, Brecknock and Carmarthen.</li> <li>89. Caio, Carmarthen.</li> <li>80. Caio, Caio,</li></ul>	<i>o</i> 0.		121.	Usk, Brecknock.
Carmarthen. 124. Michaelston, Glamorgan. 89. Caio, Carmarthen. 125. Cwmogwr, Glamorgan. 126. Scardale, Yorks. 127. Coed Surnau, Rydnor 128. Wendover, Bucks. 129. Savernuke, Wilts.	87.	Dyfnant, Montgomery.	122.	
89. Caio, Carmarthen. 125. Cwmogwr, Glamorgan. 126. Seardale, Yorks. 127. Coed Sarnau, Radnor 128. Wendover, Bucks. 129. Savernuke, Wilts.	88.		123.	
126. Scardale, Yorks. 127. Coed Surnau, Rydnor 128. Wendover, Bucks. 129. Savernuke, Wilts.	0		•	-
127 Coed Sarnau, Rudnor 128 Wendover, Bucks 129 Savernuke, Wilts.	89.	Caio, Carmarthen.	-	
128. Wendover, Bucks. 129. Savernuke, Wilts.				
129. Savernuke, Wilts.				Wendover, Bucks.
130. Osborne, Isle of Wight.			129.	Savernuke, Wilts.
			130.	Usborne, Isle of Wight.

\* Previously known a**8** Hawkshead. † Previously included under Chepstow.

## Scotland.

I.	Inverliever, Argyll.*	<i>55</i>	56.	Lennox Castle, Stirling.
2.	Borgie, Sutherland.	<i>5</i> 6	<b>1</b> 7.	Loch Ard, Perth.
3.	Slattadale, Ross.	5Y	<b>5</b> 8.	Scootmore, Moray.
4.	Achnashellach, Ross.	58	<b>5</b> 0.	
5.	Ratagan, Inverness and R	oss. 59	бр.	Devilla, Fife.
	Inchnacardoch, Inverness.		6 <b>r</b> .	
7.	South Laggan, Inverness.	6/		
8.	Port Clair, Inverness.	62	63.	Clashindarroch, Aberdeen.
9.	Culbin, Moray and Nairn.	. 63		
10.	Monaughty, Moray.	64		
II.	Kirkhill, Aberdeen.	65	66.	
12.	Montreathmont, Angus.	66	¢7.	
13.	Glen Righ, Inverness.	67	68.	Strathyre, Perth.
14.	Glenduror, Argyll.	68	69.	
15.	Glenbranter, Argyll.	69	70.	
	Tensmuir, Fife.	70	71.	Carden, Fife.
	Edensmuir, Fife.	Y/	72.	Glenloy, Inverness.
18.	Glentress, Peebles.	72	73.	
- <del>16-</del> -	Bonnan, Kirkeudbright.	73		
<i>19</i> ₂þ.	Dalbeattie, Kirkcudbright.		75.	
<b>20</b> 2µ.	Newcastleton, Roxburgh.	75		Durris, Aberdeen and
2/ 2k.	Teindland, Moray.			Kincardine.
22 <sub>28</sub> .	Glenurquhart, Inverness.	16		Longart, Ross.
<b>≈3</b> 2∦.	Glenhurich, Argyll.	77	78.	Garadhban, Stirling.
24 25.	Drummond Hill, Perth.	<b>Y</b> 8	79.	Inverinan, Argyll.
25 26.	The Queen's Forest, Invern	ess. <b>79</b>	8o.	Glenbrittle, Isle of Skye.
26 27.	Culloden, Inverness.	80	81.	Alltcailleach, Aberdeen.
29 <sub>2</sub> 8.	Nevis, Inverness.	8/	82.	Fleet, Kirkcudbright.
28 20.	Craig-nan-Eun, Inverness.	82	8 <u>3</u> .	Kinfauns, Perth.
<b>2</b> 9 36.	Ardgartan, Argyll.	83	84.	Kilsture, Wigtown.
≫o 3[r.	Barcaldine, Argyll.	84	95 ·	Whitehaugh, Aberdeen.
<i>31</i> 32.	Benmore, Argyll.	82	qo.	Guisachan, Inverness.
	The Bin, Aberdeen.	86	87. 88.	Changue, Ayr.
<b>3</b> 3 3∦.	Craig Phadrig, Inverness.	87	<b>8</b> 8.	Asknish, Argyll.
	Ordiequish, Moray.	88	89.	Dundeugh, Kirkcudbright.
<b>35</b> 3δ.	Salen, Argyll.	87	go.	Carron Valley, Stirling.
<b>36</b> 37.	North Strome, Ross.	90	gr.	Tinnisburn, Roxburgh and
<b>3</b> 7 <u>3</u> 8.	South Strome, Ross.	~		Dumfries.
JN 319.	Glenshiel, Ross.	91	<b>q</b> 2.	Glen Devon, Perth.
<b>3</b> 9 40.	Glenfinart, Argyll.	ବିନ୍ଦ	<b>9</b> 3.	Ardross, Ross.
40 4 <u>1</u> .	Findon, Ross.	93	<b>9</b> 4•	Lossie, Moray.
41 42.	Kessock, Ross.	94	⊈5. ⊈6.	Millbuie, Ross.
42 43·	Drumtochty, Kincardine.	প্ত	<b>q</b> 6.	Inshriach, Inverness.
43 <del>44</del> .	Midmar, Aberdeen.	96	<b>9</b> 7.	Craigvinean, Perth.
44 45.	Kemnay, Aberdeen.	97	<u>9</u> 8.	Tilliefoure, Aberdeen.
45 4 <sup>6</sup> .	Glengarry, Inverness.	98	<u>9</u> 9.	Corriedoo, Kirkcudbright.
46 47.	Blairadam, Fife and Kinro	-	100.	Keillour, Perth.
47 48.	Forest of Deer, Aberdeen.	/00	101.	Cairn Edward, Kirkcudbright. <i>T</i>
<b>48</b> 49.	Forest of Ae, Dumfries.	10/ 102	102.	Minard, Argyll.
49 50.	Eilanreach, Inverness.	103	103.	Garcrogo, Kirkcudbright.
50 5I.	Greskine, Dumfries.	104	104. 705	Carradale, Argyll.
<b>3</b> 7 52.	Edgarhope, Berwick.	105	105.	Twiglees, Dumfries.
52 53.	Fearnoch, Argyll.	/06	106. 107	Laurieston, Kirkcudbright.
53 54.	Dornoch, Sutherland.	107	197.	Saddell, Argyll. Assich, Nairn
54 55.	Inverinate, Ross.	108		Castle O'er Dumfries
	* Forn		wn w	
	t Incl			110. Kilmichael. AravII.
	ישובי ז	0005 1	فأألحن	111. Glencard Kickendheight

EXPENDITURE, £15,758.

Grants to private individuals and local authorities for planting amounted to £12,255, and overhead and supervisory sharges to £3,481.

The grants were as follows :-

(1) Conifers: Up to 22 per acre planted or sown and thereafter maintained as a forest crop.

(3) <u>Hardwoods</u>:- For every acre planted or sown with approved species and thereafter maintained as an area for the production of hardwoods :- up to 24 per acre for oak or ash; 25 per acre for beech, sycamore or chestnut, and 28 per acre for other approved species.

The number of schemes in respect of which grants were paid during the year and the areas dealt with are stated below :-

÷.	England & Wales.	500tland.	Total.
Number of Schemes	<b>2</b> 8 <b>3</b>	1.97	415
Planting conifers	Aores. 2,184	Aores. 2,516	Aores. 4,700
Planting Hardwoods	1,134	27	1,161

SURMEAD G - EDUCATION. EXPENDITURE, 611, 221.

Details of expenditure are given in Table G.

Apprentices' Schools: Expenditure 24,365. - Sixty-two forest apprentices underwent courses of instruction at Parkend (Forest of Dean) and Benmore (Argyllshire). Nineteen apprentices who completed the two years' course were granted certificates of proficiency.

Grants to Universities, Colleges, etc.: Expenditure, £1,502.-Grants were made during the year to the following :- Oxford University; Cambridge University; University College of North Wales, Bangor; King's College, Newcastle-on-Tyne; Aberdeen University; Edinburgh and East of Scotland College of Agriculture; Royal Scottish Forestry Society.

Table G.—Education.

	EXPENDITURE (Table IIa, Column 4).									
	Superior	Apprentices' Schools.							Net	
Ycar ending 30th September.	Super- vision and Over- head Charges.	Salaries and Expenses of In- structors.	Purchase and Rent of Land and Build- ings.	Allow- ances to Appren- tices.	Stores, Fuel, Light, etc.	Grants to Institu- tions.	Total.	INCOME.	Expen- diture.	
irst decade :	£	£	£	£	£	£	£	£	£	
1920-29 iecond decade :	13,125	15,401	6,195	21,709	14,192	30,691	101.313	2,427	98,886	
1930	900	820	838	2,203	1,215	4,232	10,208	263	9,945	
1931	880	759	1,949	2,143	1,450	4,230	11,411	64	11,347	
1932	789	882	259	1,982	968	4,004	8,884	5	8,879	
1933	1,010	980	188	I,473	719	3,856	8,226	38	8,188	
1934	1,148	1,072	270	1,163	623	3,782	8,058	34	8,024	
1935 1936	976	1,142	205	1,177	634 760	3,879	8,013	38	7,975	
1000	1,407 1,603	1,220 1,265	374	1,383 1,948	700	3,930	9,074 10,295	— ,	9,074 10,294	
1937			523			3,931	12 608	! _ <b>1</b>	12,608	
1939	1873	1.354	640 6 <b>3</b>	2,185	1012 <b>70</b> 3	5,819 1993	12,608		$-\frac{n}{2}$	
Total	23309	139347	11:524	31386	23501	22327	131.311	2,870	196 14	
Percentage			يبهہ	- <u>19-9</u>	12:0	36.3				
-	1 12 1	15.2	5.8	19.1	8.11	36.8	100	]		

The number of students studying forestry at the Universities was 85; 25 forestry degrees were granted, and 4 candidates obtained diplomas.

Imperial Forestry Institute: Expenditure, 52,000.-The annual grant to the Imperial Forestry Institute from the Forestry Fund was continued. Twelve students attended for the whole or part of the year, comprising 9 forest officers on leave (India 1, Dominion Service 2, Colonial Services 6) and three private students.

Short Courses for Forestors: Expenditure, 21,691.-In co-operation with the Forestry Societies, instructional courses for foresters and foremen on private estates were continued as in the preceding year. Facilities for training were kindly provided in England at Raby Castle, Dartington Hall and Weasenham, and in Scotland at Langholm and Darnaway. The courses were attended by 53 woodman from private estates.

SUBHEAD H - RESEARCH AND EXPERIMENT.

EXPENDITURE : GROSS, £17,757; NET, £17,454

Details of expenditure are given in Table H.

Year ending 30th September.	Superior Super- vision and Overhead Charges.	Salaries and Expenses.	Labour, Stores, etc.	Grants to Institu- tions.	Total.	Інсомв.	NET EXPENDI TURE.	
	£	£	£	£	£	£	£	
First decade : 1920-29 Second decade :	13,699	38,458	20,230	7,263	79,650	1,058	78,592	
1930	1,316	5,079	4,529	1,414	12,338	105	12,233	
1931	1,292	5,323	4,588	1,395	12,598	278	12,320	
1932	1,149	5,329	4,452	1,396 1,646	12,326	42	12,284	
1933	1,233	5,294	4,009	I,646	12,182	78	12,104	
1934		4,9II (	3,804	1,405	11,301	420	10,881	
1935	1,297	5,012	4,265	3,165	13,739	143	13,596	
1930	1,444	5,416	4,123	3,149	14,132	404	13,728	
1937	1,792	5,705	5,168	3,624	16,289	372	15,917	
1938 1939	1,736	8,134	5,810	3,283	17.583	385	17,188	
Total	- 28-393 - 28-393	23-279	67360	38,982	211,875	3392	2/6872	

1 1 1

<u>Production:</u> - Twenty-three new sample plots were estab-lished during the year. The majority of these were in planta-tions formed by the Commissioners in Thetford, Inverliever and Knapdale Forests. Thirty-two plots were re-measured.

<u>Nursery and Plantation Experiments</u> - Analysis of a series of data of sowing experiments in seven nurseries in Bootland suggests that both soil conditions and climate influenced the results. Early sowing, i.e. from February until the middle of April, was better than late sowing in five out of seven nurseries. In the other two nurseries May sowings had in general the advantage. One of these nurseries was situated on the west coast in a region of high rainfall, in the other case the soil was exceptionally heavy. The species sown was with spruce.

Experiments comparing broadcast and drill sowings of Norway spruce and Sitka spruce showed the striking superiority of broadcast sowing as regards production of seedlings; this is in conformity with earlier experiments which gave a similar result.

In connection with the problem of nursery soil fertility, a series of experiments has been started in collaboration with Dr. M.C. Rayner of Bedford College, London. The earlier results of this worker indicated that "natural", e.g. woodland or mearland, soils often produce seedlings of better quality than those raised in cultivated nursery soils. Mycorrhiza difficulties occur with certain species and on some soils, but these are overcome in most cases by applying to the soil a compost prepared from hop-waste. The preliminary results are striking and, it seems possible, may be of practical value in the afforestation of difficult types of land.

Examination of the plantation manuring experiments carried out during the past fifteen years confirms the importance of phosphate, as compared with either nitrogen or potash, as a manure for coniferous forest trees on certain poor types of sail. There is little evidence of beneficial response to the use of nitrogen, while in the case of potash results are somewhat inconclusive, any improved growth being as a rule counteracted by a higher death rate among the plants to which the manure had been given. Phosphate on the other hand, when applied in the form of basic slag or ground mineral phosphate, has proved very beneficial to trees planted on certain difficult types of ground, notably the scirpus-calluna parts of the west and north of Scotland and certain heavily leached calluna soils which are met with in various parts of Great Britain. It is important to note that on average types of planting ground, e.g. grass-moorland and, generally, on old woodland soils, phosphatic manuring is as a rule quite ineffective. When basic slag or ground mineral phosphate is applied, a sufficient dose in most cases is one ownee per plant. The cheapest method of application is to sprinkle the manure round the stems of the plant after planting. It does not require to be hoed or forked in. Experiments have also been carried out with some of the minor elements, manganese boron, etc., but without any striking results.

Entomology and Mycology - The chief entomological work carried out concerned the chafer grubs in forest murseries. Useful progress was made in tracing the life histories of major species but the results of experiments with insecticides were again disappointing. An investigation of an insect parasite of Melolontha grubs was started by Dr Walker at the Farnham House Laboratory.

The disease extended its spread during the year and was somewhat more intense in most districts than in 1938.

Further visits by Continental mycologists established the presence in the British Isles of the Adelopus needle cast discase of Douglas fir. Serious damage was found to be occurring in Douglas fir plantations in the Irish Free State but there is nothing as yet in the name of an epidemic in Great Britain.

Botany and Soils - Br.M.C.Rayner has carried out a series of laboratory and field experiments on the use of composts for manuring soils in which beech seed is to be sown. Successful results were obtained with natural (woodland or uncultivated) soils, but there was not the same response on cultivated nursery soils. A critical experiment to test the importance of root structure and type has been carried out on difficult soil in Hope Forest, Derbyshire, the principal species being Sitks spruce.

Soil investigations on permanent sample plots have been started in Scotland. Dr.A. Muir of the Macaulay Institute for Soil Research has carried out a soil survey in Ardgartan Forest on Loch Long.

Advisory Committee on Forest Research - A special meeting of the Committee was held to consider border-line problems affecting or underlying both agriculture and forestry. A Sub-Cosmittee of the Agricultural Research Council is to be set up to deal with these problems.

The Advisory Committee met later in Northumberland, visiting Mielder and adjoining forests in the Border Country.

> SUBHEAD J - AGENCY AND ADVISORY SERVICES. EXPIENDITURE: GROME, £1,511; NET,£1,209.

The expenditure is mainly an apportinment of overhead and supervisory charges in respect of the time of various officers of the Coasission who have been engaged in answering enquiries and advising woodland owners as to the treatment of their woods.

Subhead K—Special Services. Expenditure, £5548; Net 5535. Details of expenditure are given in Table K.

Tahle	K.—Special	Services.
Iauro	n. opeciai	00,01000

Expenditure (Table IIa, Column 7).									
Year ending 30th September.	Superior Supervision and Overhead Charges.	Consulta- tive Com- mittees' Expenses.	Publi- cations.	Special Enquiries.	Relief of Un- employ- ment.	Total.	IN- COME,	NET Expen- diture.	
	f f	£	£	£	£	£	l f	£	
First decade : 1920–29 …	26,585	523	1,995	12,368	19,828	61,299	347	60,952	
Second decade : 1930 1931 1932 1933 1934 1936 1936 1937 1938 1938 1938 1938 Perceniage	1,822 1,478 1,684 1,598 1,598 1,597 2,869 2,403 8,257 5,000 2,403 8,257 5,000 2,403 8,257 5,000 2,403 2,403 2,403 2,500 2,403 2,500 2,403 2,500	60 32 25 7 1 7 3 	68 126 87 28 116 196 4 74 164 24 74 164 37 25 3 3 1	147 255 561 466 745 1,056 3,091 2,290 2,075 7,985 2,290 2,075 7,985 2,390 2,075 7,985 2,390 2,30		2,097 1,891 2,357 2,099 2,453 5,012 5,971 4,770 10,496		2,097 1,883 2,355 2,099 2,447 5,008 5,971 4,770 10,496 735 745 2,573	

<u>Consus of Woodlands.</u> - There has again been an increase in expenditure due to additions to the staff of the Consus and Plans Branch which was formed early in 1938 to conduct a consus of the woodlands and to make plans for the supply of homegrown timber in emergency.

Publications. - The following publications were issued during the year :- <u>Nineteenth Annual Report of the Forestry</u> <u>Commissioners</u>, (being the report for the year ended 30th September, 1933) and Leaflets <u>Heath and Forest Fires</u>, and <u>Insect</u> <u>Attack consequent on War-Time Pellings</u>. In addition Bulletin No.14 <u>Forestry Practice</u>, Leaflets Nos.1 <u>Pine Weevile</u>, 5 <u>The</u> <u>Pine Shoot Beetle and 12 Income Tax and Death Duties on Woodlands, and the Report of the National Forest Parks Committee</u> (Forest of Dean) 1958, were reprinted.

International Union of Forest Research Organisations. -The Standing Committee of the International Union met in London during April when problems involving international co-operation in forest research were discussed. The Committee visited the Forest Products Research Laboratory at Princes Risborough and received a report from a sub-Committee of the International Union which met at Princes Risborough and at which important progress was made towards the standardisation of international procedure in timber testing.

Royal Agricultural Show, 1939. - The Commissioners staged a successful forestry exhibition in Windsor Park in connection with the centenary Show of the Society.

British Association for Advancement of Science. - Meetings were held in Dundee in September 1959 when various forestry problems, particularly those connected with the cultivation of larch, were discussed.

<u>Consultative Committees.-</u> There were no Meetings of the Consultative Committees in the year under report.

SUBHEAD L - YOREST WORKERS' HOLDINGS. EXPENDITURE, £39,679; INCOME,£18,934.

Total expenditure was £10,227 more than in 1958. Details are given in Table L.

During the year further holdings were completed, raising the net total from 1,376 to 1,471. The average cost of establishing holdings is £490 of which land accounts for £69, and cost of buildings, drainage, water supply, etc., £481.

Holdings.	
Workers'	
L.—Forest	
Table	

				Expend	Expenditure (Table IIa, Column 8).	IIa, Colum	п 8).			INCOME (I	Income (Table IIa, Column 11).	lumn II).	
Ycar ending 30th September.		Superior Super- vision	Purchase and Rent		Buildings.		Fencing,	Miscel-	Ę			ŧ	NET Expen- diture.
•		and Overhead Charges.	or Land and Buildings.	New.	Adapta- tions.	Repairs.	Luramage, etc.	laneous.	Totar	Kents.	Other.	T 0121.	
		(1)	(2)	(3)	(†)	(5)	(0)	(2)	(8)	(6)	(10)	(11)	(12)
First decada -		ų	ډې	£	۲	4	4	<b>ч</b> я		ę	4	4	£
62-0261	:	35,894	103,940	192,184	32,302	3,882	17,561	4,120	389,883	26,261	r,254	27,515	362,368
Second decade : 1930	:	11,196	34,410	43,126	I0,932	2,536	5,902	473	108,575	611,21	87	12,206	96 <b>,3</b> 69
1691	:	11,054	17,437	54,095	T5,435	3,528	6,713	758	109,020	13,568	15	13,5 <sup>8</sup> 3	95,437
1932	:	9,157	3,974	26,635	4,352	6,696	4,511	1,032	56,357	16,781	30	16,811	39,546
r933	:	2E9'2	(cr.) I,IOI*	4,375	3,166	3,424	1,004	937	19,437	17,145	83	17,228	2,209
1934	÷	7,480	4,546	2,064	2,2BŞ	2,926	1,238	878	21,417	17,278	+6	17,372	4,045
2601	:	6,937	4,060	2,617	2,502	4,110	874	585	21,685	17,497	54	17,551	4,134
1936	:	8,382	IO,374	4,352	1,145	4,163	582 1	1,075	30,073	18,018	46	18,064	12,009
7697	:	10,296	19,673	31,561	933	5,354	1,284	1,075	70,176	18,217	+35	18,652	51,52.4
850I	:	9,890	11,642	25,748	1,575	6,925	2,263	1,409	59,452	18,449	101	18,465	40,987
/939	:	12,375	3,879	40,251	1,505	6,679	3,596	1,394	69 649	18,391	କ୍ଷ	18924	30,755
Total	ł	/30,293 	2/2,834 <del>208,955</del>	427 008	76,132. <u>94,697</u>	50,223	++932-54	)5,736 - <del></del>	955,754	194,224	2,144	196,371 -1 <del>77,449-</del> -	7:59 383 - 708,628
Percentage	:	13-5 /3-6	- <del>03-6</del> 22-3	44.7	* <b>8</b> ∳∳0	بن مب	<del> </del> 4 4 8	+++ +++		<del>98</del> 98 9		<b>90</b> 7 7	

Credit entry due to transfer to forestry operations of land and buildings not required for holdings.

Total income was £1,951 less than in 1939. Sales of land and buildings decreased by £12,163, rents and royalties by £3,202, forest produce by £4,259, and "other" income by £2,357. Details are given in Table 2.

		For	estry Operal	ions.	_	Forest		
Year ending 30th September.	Sales of Land and Buildings.	Rents and Royalties.	Forest Produce.	Other.	Total.	Workers' Holdings (Rents, etc.).	Miscel- laneous.	Grand Total.
irst decade :	£	£	£	£	£	£	£	£
1920-29   econd decade :	78,784	274,091	406,594	122,639	882,108	27,515	6,936	916,55
1930	2,642	65,184	63,949	16,219	147,994	12,206	406	160,60
1931	15,568	71,930	56,768	20,802	165,068	13,583	386	179,03
1932	7,869	70,249	49,477	16,621	144,216	16,811	77	161,10
1933	4,463	75,127	47,321	11,030	137,941	17,228	170	I55,33
1934	12,258	78,120	55,893	16,861	163,132	17,372	518	181,02
1935	6,394	81,622	63,112	18,074	169,202	17,551	270	187,02
1936	5,708	83,027	73,111	21,184	183,030	18,064	507	201,60
1937	2,407	84,753	89,814	48,992	225,966	18,652	674	245,29
1938	15,669 3506	02.111 28909		17.989	227.723	18465	1.81Z	247,21
Tatal	155258	1065/23	7105695	336943	2652/22	126317	1607	28601
Perceniage		37.2	38.4	11.4	92.9	6- <b>9</b>	0'4	100

Table Z.—Income.

## Employment in the Commission's Forests.

The number of forest workers employed in the Commission's forests is stated in the table below :—

Summ	er (Min	.imum)		Winter	r (Maxi	imum).	
1920			210	1920–21			935
1921			495	1921-22	• • •		1,780
1922	• • •		525	1922–23			1,775
1923			880	1923-24	•••		2,220
1924		•••	1,620	1924–25		]	2,650
1925			1,980	1925-26			2,960
1926			2,335	1926–27			3,185
1927	•••	••••	2,735	1927–28	• • •		3,495
1928	•••		2,740	1928–29			3,565
1929	• • •		2,640	1929–30			3,835
1930	•••		3,130	1930–31			3,850
1931			2,830	1931–32			3,505
1932			2,720	1932-33			3,985
1933			2,845	1933-34			3,735
1934			3,015	1934-35			4,020
1935			3,280	1935-36			4,155
1936			3,720	1936–37			4,565
1937			4,065	1937-38			5,110
1938	•••		4,555	1938–39			5,395
1939			4,320	1939-40	•••		5,155

(Signed) R. L. ROBINSON (Chairman).

G. L. Courthope.

D. R. GRENFELL.

## A. Redeer.

- L. ROPNER.
- W. R. Smith.

S. STRANG STEEL.

JOHN SUTHERLAND.

W. L. TAYLOR.

A. G. HERBERT,

Secretary,

25, Savile Row,

London, W.I.

## APPENDIX I.

IMPORTS OF TIMBER, WOOD MANUFACTURES AND FULP OF WOOD.

Statistics relating to these imports are given in the following table, the figures for 1938 being for the calendar year. Those for 1939 however are not for the complete year but are in respect of the period January to August. The Board of Trade Monthly Trading Accounts from which the data are extracted have been suspended as from September, 1939. Complete statistics for 1939 will probably be available towards the end of 1940 when it is expected the usual Annual Statement of Trade will be published by the Board of Trade.

The data for 1939 are included in the table as it is thought that a comparison with the imports for the corresponding period in 1938 may be of interest. In the former year imports of unmanu-factured timber to the end of August amounted to 6,102,000 loads valued at £37,090,000, being 585,000 loads (10 per cent.) and £784,000 (5 per cent.) more than in 1938. These figures would tend to indicate that, but for the intervention of the war, imports for 1939 would have been greater than in 1958, shen the total value was 542,852,000; it is believed, however, that the actual value in 1939 was less by 25,788,000 or 14 per cent. The principal inorease to be recorded was in sawn softwoods, the total imports at August, 1939 being 3,149,000 loads valued at £12,878,000, or 25 per cent. (30 per cent. in value) more than for the same period in There was also a rise in planed and dressed timber, the 1939. quantity (808,000 loads) and value (£3,930,000) in 1939 being 23 per cent. and 20 per cent. respectively greater than in the previous year. There was little change in imports of pitprops at 1,095,000 loads but the value( 22,505,000) in 1959 showed an increase of 22 per dent.

Imports in 1939 of manufactured timber at 26,013,000 represented a decrease of 6 per cent. on the previous year. There was a small increase (6 per cent.) in pulp of wood for 1939 (1,130,000 tons) compared with 1938 (1,087,000 tons) but the value (28,459,000) was less by 11 per cent. -

Description.	្ន	uantities (	thousand	).	and the state of the	Value (1	housand	•)•• ~
7.0000 ¥ <b>6</b> .494444	A <b>verage</b> 1909–13.	A <b>verage</b> 19 <b>14-</b> 18.	1938	1939	Average 1909-13.	Average 1914-18.	1988.	1939
	<u></u>	aganan da agi shiran an babaran di	****** <u>*******************************</u>		aber.		<b></b>	
Hewn-hard -	Londs.*	Londs. *	Londs.	Loads.	<b>£</b> 12., -	£	£	£
Mahogany	-	· · · · · · · · · · · · · · · · · · ·	36	13	-	-	31.0	110
Oak	-	-	2)		-	-	20)	
Walmut	-	÷	8)	35	+		20)	316
Teak	· -	-	4)		-	-	54)	ļ
Other sorts	-	<b>.</b>	41)		-	-	<b>547</b> )	
Hewn-soft (fir, pine, spruce, etc.).	542	129	295	135	1,353	583	<b>94</b> 8	444
	a and a second secon	e Dege						1

IMPORTS OF TIMEER, WOOD MANUFACTURES AND PULP OF WOOD.

## Load = 50 ou.ft.

Data for 1939 are for the period January to August and are not, therefore, comparable with those for 1938. Publication of the Board of Trade detailed Monthly Trading Accounts have been suspended as from September, 1939.

	APPENDI	X I - contd.			
Imports of	Timber, Nood	Manufactures	and Pulp	of	Wood-oontd.

Des Iption.	ି ହିଅ	untities(th	ousands).	•	٦	Value (tho	usanda).	
	Average 1909–13.	Average 1914–18.	1938.	1939. <sup>Ø</sup>	Average 19 <b>09-1</b> 3.	Average 1914-18.	1938.	1939. <sup>Ø</sup>
	_			Tint				
Sawn hard	Loads.	Loads. "		Loada."	£	£	£	L.
Mahogany	-	-	17	10	-	-	243	163
Walnut	-		5	3	-	-	90	63
Oak	-	-	184	135	-	-	1,837	1,349
Teak	-	-	57	24	-	-	829	455
Other sorts	- 1		373	240	-	1 -	2,694	1,694
awn-soft, other			1					
than planed					[			ii ii
or dressed.	- 1	-	4,896	3,149	-	-	19,724	12,878
laned or				-				
dressed -					1		I	1
Hard	-	<b>.</b>	74	55	-	- 1	586	449
Soft	-	<b></b>	985	751	-	-	4,593	3,431
ther	-				ļ	ļ		
descriptions-			•			ţ	1	
Pit-props	2,944	1,673	1,664	1,085	3,510	4,425	4,751	2,505
Staves	161	71	44	22	795	648	540	297
Sleepers		130	587	199		602	1,967	927
Veneers	_	-	12	8			731	449
Boxboards		_	292	195			1,806	1,128
Telegraph pole		_	74	45			390	213
Not elsewhere		_				1 -		410
specified	8,557 🖌	3,550 7	31	ender 🚆	81,905 /	24,362 /	367	269
otal unmanufao- tured timber	10,204	5,555	9,433	6,102	27,561	50,620	42,852	27,090
			Vac	i Kanufac	1 111700-			
Aumiture and								·
cabinet ware.	-	-	<u> </u>	-	416	115	408	258
Builders' wood-					-20			1 200
work(window	2	<del>~</del>						ł
frames, doors,		*		-	180	62	1,029	564
etc.).								
Plywood	_	-	_	-	-	-	3,365	2,202
)omestic wood-		-					0,000	4,40
work(bread								
platters, trays								Ĵ.
eto.).	_	-		_	-	_	202	127
		-		-			111	1.07
Tool handles	-	-		-	_	-	***	864
Not elsewhere specified.	•	*	-	-	2,099	1,821	1,187	)
Total manufac-					0 405	4 000	8 00F	4 01 =
tured timber					2,695	1,999	6,287	4,013
	· · · · · · · · · · · · · · · · · · ·						71	
		1	Pult	of Wood			ł	
	Tons.	Tons.	Puly Tons.	of Wood Tons,	n The second se		4,239	

Load = 50 cu.ft.

These figures apply mainly to sawn softwoods. It is not possible to differentiate
 according to the various categories enumerated above owing to a change in the Board
 of Trade classifications from 1920 onwards.
 Air-dry weight.
 t

4 \*

Data for 1939 are for the period January to August and are not, therefore, comparable with those for 1958. Fublication of the Board of Trade detailed Monthly Trading Þ Accounts has been suspended as from September, 1939. 

AppEndix II. Flantations. Year ended 50th September, 1939 - England and Wales.

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101681*		ì.			ì								3		
	VII OF BUICK	E COG.	Ne-all	ke-arroreted.	Ted OI		2000	.int	1	2	م- من و				
	- ter	Hanad.	The		-	Hrnada	Covetose	and Tan	Douglas Fir	sud sttr	Oak.	Åsh.	Beech.	Others.	Total.
	fers.	leaved.	fers.	Leaved.	fers.	leaved.	Pines.		•	Sprides.	111 <b>- 1</b> 1 <b>- 1</b> 1				
Alice Hdt. Hants +	+	1	80	65	38	60	<b>35</b>	3	•	11	8		-	•	107
Iorka	216	•	32	84	248	24	<b>196</b>	110	)	88	12	Ø	05	83	721
Torics	3	•	\$		89	-	X	80	1	18	4	t	ŧ	-1	164
. 2	1	•	l	्रक े   <b>1</b>	•	1	10	1	ł	1	œ	ł	24	N)	41
- 4	8	1	•	•	8	•	•	ŧ	1	136	t	•	•	ł	136
		9	122	31	123	20	235	)	60	60	138	ł	ł	4	413
wtry.Nottingham	ŧ		1		ŧ.	ł	-	t	•	- ().	<b>+</b> -	ŧ	1.	10	12
Beddgelert, Gaernarvun	4	1	•	I	9	ł	1	I	\$	72	t	1	I	17	8
Bedgebury, Kent and Susser +	ł		18		18	24	6	•	-	1	I	1	62	Ħ	140
Bere, Hants .	ţ	•	•	. 1		. 1		0	•	í.	ŝ	1	1	1	15
Bodwin, Cornwall	•	1	3	4	\$	-	-	0	2	42	t i	1	12	Ð	08
Bourne, Lincoln and Rutland	•	,	ŧ	47	1	5	Ø	1	8	10	220	35	20	ĸ	325
Bramahill, Berks and Hanta		ŧ	ŧ	•	ţ	ł	107	1	1	-1		ł	t	1	103
Brechfa, Carmarthen	10	\$	77	स्व न	513	<b>1</b> 9	33	554	30	293	4	15	117	51	1,170
Brecen, Brecknock -	1		yrd	++	-1	÷.	93	<b>C</b> ~	. 0	37	l	Cđ	4	ଜ୍ୟ	63
merset.	9	<b>P3</b>	ю		13	80	Ø	01	5	53		Ą	n	60	77
f Vight.	2	ħ	ŧ	8	\$	31	13	1		•	I	ଟୀ	<b>6</b> 3	4	194
Bruton, Schereet and Wilts	ŧ	1	<b>*</b>	10	14	ŝ	•	16	ŝ	n	÷	6	<b>0</b>	۳ł	4
	z	•	ŧ	1	2		•	4	ł	102	ŧ	ł	ŧ	<b>(</b> 3)	111
unts and Cassex	1	112	t.	1	•	112	8	<b>,</b> †	1	ł	ŧ	4	418	1	505
~ <b>y</b> ~~	257	••••	\$		13	*	4	158	17	75	ł	8	ŝ	55	337
Cannook Chase, Staffard	1	1		1	•	ţ	44	•	ĩ	•	1	l	31	67	542
Challock, Kent	1	•	••••••••	2	t -	74	<b>P</b> t	1	ŧ	1	\$	10	136	ł	155
Chepstow, Normouth	1	ſ	10	đ	9	े जन	Ø	•	ł	•	1	ŧ		1	17
Chiddingfold, Surrey and Sussez	1		8	4	13	4	•	- <b>4</b> 1.61 1.21 1.21		67	\$	1	6	*)	127
Chopwell, Curham •	ł	•	8	I	00	1	9	CR CR	1	8	1	. •	1	1	51
d Nottingham	148	٩	đ	<b>1</b> 22	173	52	495	•	1	•	10	2	13	167	679
	3														
-#	0.00	•	5	1	44	t	105	145	ŧ	600	•	ŧ	13	14	. 877
~ <b>∳</b> ~ ∣	282	•	ŧ	8	202	t	40	49	<b>56</b>	646	ł	<b>eq</b>	Ø	20	343
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	Affoi	Afforested.	Re-af	Re-afforested.	Tot	Total.	Scots and	ğur. and		、漢				and a second	Ļ
	Cant- fers.	Broad- Leaved	Cont- fers.	Broad- Leaved.	Coni- fers.	Broad- leaved.	Corsioan Pines	Jap. Larches.	Plr.	and Si the Spruces.	Qak.		Beech.	Others.	Total
Bartland, Devon	123	**	ł	1	128		<b>++</b>	4	•	190	1	•	•	٢	203
_ <b>F</b> 5	105	•	,	ł	105	•	1 403	1 <b>6</b> 73		121	•	1		4	133
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Kerry, Montgomery and -	23		112	1	8	™	3	/ /	1	a, F			•	Q	88
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Wyherin, Cardigan	276	st.	11	Q	287	Ø	3 6	187	<b>v v</b>		<b>p</b> 1		a v T	1 <b>1</b>	
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AMENDIX

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<b>XIGNEDIX</b>

ž.	1	Area	Area planted (acres).	(acres).				\$Q.	pecies p	Species planted, including beating-up	acludi	R beat	) da-Suj	(thousands).	( ~ · · · ·
Porest.	AFFOR	Afforested.	Ke-a1	Ke-afforested.		Total.	Scots	Bur.	Inter	Norvay					
	Cont- fers.	Broad- Leaved.	fers.	Broad- leaved.	Cont- fers.	Bruad		Jap.	•	78	ż	des			Total.
Valcot, Salop		1999 - 1990 - 1990 - 1997 1997 - 1997	55	8	8	8	er Lande waar e	en B	ц	1	1	*9	\$	40	111
¢Ë"	131	•	1	•	131	t i	314	ţ	ţ	51	1	•	ŧ	•	335
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West Woods, Wilts Wisslaw Lincols and		•	1	•		t	ŧ	ł	1	•	•	t	146	10 17	161
Rottingan	******	1		•	74	ţ	142	1	ł	ł	1		ţ		142
Willingham, Lincoln Wilsey Dam, Corn-	2 June 1 10	đ	•	I	\$	ទ	154	ŝ	1	ł	188	•	1	t	548
	<b>0</b>	: : : : : : : : : : : : : : : : : :	)120 Min (Kung	ł		ł	l	t	•	243	t	8	•••••	5	253
Hyre, Waller and Wordester	999-999-9994 0 0		ەجىب)يىرە (	108	l	<b>601</b>	60	-	ļ	<b>83</b>	ł	-	138	tel	152
Iardley Chase, Bef- ford & Morthampton		<b>(</b> )		91	•	102	8	•	ŧ	10	240	G	<b>3</b>	8	538
Total	13,065	616	1,965	1,528 1	15,030	2,347	10,836	4,358	451 1	16346 2	2,71.5	397	5841	1,257	41,893
By direct sowing (included above)		•	, a mana a da	•	1	•					· · · · · · · · · · · · · · · · · · ·				
					HAM	PLANTATIONS.	Icar ended	1 1	30th September,	. 1959 -	- Sootland.	and.		<b>Y</b>	
Achaglachgach, Argyll	113	11		l	113	11	*	CI-	*	160	•	•	IJ	3	255
Ashnashellach, Ross	<b>19</b>	•	t	ł	5	•	13	N)	ľ	\$	ł	1	ł	10	52
Ae, Forest of, Dumfries All tosillesch.	583	4		•	<b>36</b>	***	\$	10) (3)	64	<b>\$</b> 03	•	3	61	r	573
Aberdeen	5	1		1	103	1	133	9	ŧ	<b>ĝ</b> 1	ł	1	1	14	217
Ardgartan, Argyll	520	ł	<b>#</b> i	ŧ	360	ł	8		त्त्व	484	1	•	ŧ	91	539
Ardrons. Ross		1		(									•		1

		and sarv	Area planted (acres).	:res).						the second se	m-Sarasan Summernur			Sourcencus )	
Porest.	Afforested.	sted.	Re-all	Re-afforested.	Total		Scota and	Bur.	Douglas	Norway	4	1 1 1			
	Coni- fers.	Broad- leaved.	Cont- fers.	Broad- leaved.	Coni- fers.	Broad- Leaved.	Corsican Pines.	Jap. Larohes.		Stra	ويعرد المارية والمتنزي والمارية				
Askaish,Årgyll	143	· · · · · · · · · · · · · · · · · · ·	Ţ	•	143	ţ	91	7 <b>4</b>	10)	156	1		1	10	266
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Balblair, Sutherland	,	1	ŧ	1	1	1	•	*	. 1	64	ŧ	1	1	-1	11
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Plantations. Year ended 30th September 1939 - Summary.

Total. 21,558, 41,898 63,456 Beech. Others. Species planted, including beating-up (thousands). 1,210 3,897 2,467 3,641 1,257 256 455 Ash. 158 2,713 297 2,918 205 Oak. Norway and Sitka Spruces, 18,346 **30,892** 12,546 Douglas Fir. 49 515 451 Eur. and Jap. Larches. 4,358 6,455 2,097 Scots and Corsican Fines. 10,835 5,022 15,857 Broad-leaved. 242 3,438 1,449 24,815 2,489 1,328 15,030 2,247 Total. 9,785 Bread- Coni-leaved fers. Re-afforested. 121 Area planted (acres.) Coni-1,965 1,473 Coni- Broad-fers. leaved. 919 21,377 1,040 121 Afforested. 13,065 8,312 England and Wales... Forest. Total ... Scotland ...