FORESTRY COMMISSION

THIRTEENTH ANNUAL REPORT

Forestry Commissioners

FOR THE

YEAR ENDING SEPTEMBER 30th, 1932

(Presented pursuant to Act 9 & 10 Geo. V., c. 58, s. 8 (4).)

Ordered, by The House of Commons, to be printed, 15th May, 1933

LONDON

PRINTED AND PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE

To be purchased directly from H.M. STATIONERY OFFICE at the following addresses.

Adastral House, Kingsway, London, W.C.2; 120, George Street, Edinburgh 2

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1933 Price 9d. net



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THIRTEENTH ANNUAL REPORT of the

FORESTRY COMMISSIONERS

for the

Year ending September 30th, 1932

OBITUARY NOTE.

The Commissioners record with deep regret the death of two men who have been intimately associated with the work of the Commission since its formation in 1919.

The late Lord Lovat.—Lord Lovat, who died on February 18th, 1933, was the first Chairman of the Commission and occupied that position from November, 1919, until March, 1927, when he took office as Parliamentary Under-Secretary to the Dominions Office in order to promote Empire Settlement. The Commissioners were fortunate in having as their first Chairman a man whose forceful character and high devotion to duty inspired alike his colleagues and his staff. His influence with his fellow landowners in the early years secured that access to land and consequent initiation of State planting operations which was of great assistance when, a few years later, the movement for retrenchment threatened the Commission's existence. His name as forester, as host, as a source of inspiration and friendship, will long be held in remembrance in the Dominions and Colonies as well as at home.

The late Mr. H. A. Pritchard.—Mr. H. A. Pritchard, who died on November 6th, 1932, was Chief Technical Adviser to the Assistant Commissioner for England and Wales from November, 1919, until January, 1924. He was then appointed Assistant Commissioner, a position which he held at the time of his death. He was greatly liked by those who got to know him, for though he never spared his staff he spared himself still less. During most of the time that he was Assistant Commissioner the staff in his office and in the Divisions was greatly below what would ordinarily have been required for full efficiency and, but for his untiring energy and mastery of detail, the work of the Commission in England and Wales must have suffered severely. His sudden death was mourned by many to whom his passionate devotion to the Commission's service had been an example and encouragement.

FOREST POLICY.

The year under report marks a transition from the large programme approved in September, 1929, for the decade 1929-1939, to the reduced five-year programme to which reference was made in the Commissioners' Annual Report for the year ended September 30th, 1931. It was then explained that with an Exchequer Grant of £450,000 per annum the sum likely to be available for expenditure on all purposes would, with working receipts, be rather less than £600,000 per annum, and that the Commissioners anticipated being able to carry out the following work:—

(1) Maintain a planting programme of upwards of 20,000 acres per annum.

(2) Acquire sufficient plantable land to keep intact the reserve of land which is required for maintaining the planting

programme.

- (3) Provide sufficient additional forest workers' holdings (numbering perhaps 15 to 20 per annum) for working the forests efficiently, and also repair and maintain such holdings as are necessary for the utilisation of the non-plantable land.
- (4) Provide grants for planting on the same scale as during the last three years.
- (5) Maintain intact their research activities and make suitable provision for forestry education and other ancillary activities.

It will be appreciated that the sudden change in the Commission's planting programme could not be made without waste. The material losses are most apparent in respect of nursery plants. Provision had been made in the spring of 1931 and previous years for sufficient plants for the following programme:—

.Planting				To plant
Season.				(acres).
1931-32				28,000
1932-33			 	32,000
1933-34	 		 	35,000
1934-35	 	 	 	38,000

The actual programme for the planting seasons 1931-32 to 1934-35 inclusive will now lie between 80,000 and 90,000 acres, that is to say from 40,000 to 50,000 acres less than was anticipated in the spring of 1931. The problem of dealing with the surplus nursery stocks represented by that area was given very careful consideration. It was known that they were not required for private planting since not only were landowners not maintaining in full their rate of planting (and that for the same general reasons as caused a reduction in the Commission's programme) but also the stocks in the hands of trade nurserymen were in excess of

requirements. It was ascertained from costing data and experience in planting that there is a limit to the size and age to which it pays to carry trees in the nursery. With the majority of species the critical age is four years. It is in fact cheaper to destroy four-year-old plants and start again from seed rather than to attempt to carry them on in the nursery.

In view of all the facts it was decided to retain in the nursery only those surplus plants which were within the economic limit of age and, further, did not necessitate additional expenditure in weeding, etc. There has thus been a destruction of surplus plants beginning in the nursery season 1932 and not yet at an end. When the readjustment has been completed it is estimated that the cost price of the plants involved will amount to approximately £50,000.

FINANCE.

The balance in the Forestry Fund at the commencement of the forest year was £446,432. Receipts from Parliamentary Votes (£447,000) and Forestry Operations (£151,466) amounted to £598,466. Payments amounted to £761,220, so that the balance in the Fund at the end of the year was £283,678.

The table below, originally designed to control estimates and "actuals" over the decade 1930-1939 inclusive, has lost most of its interest owing to the drastic change of programme, but is included to show the progress of expenditure and receipts.

Forestru	Fund:	Payments	and	Receipts
Lordong	r will.	L ug monio	anu	Tuccopio.

Year ending		Payments.			Receipts.		N	et Payment	s.
30th September.	Proposed.	Actual.	Excess (+) Deficit (-)	Proposed.	Actual.	Excess (+) Deficit (-)	Proposed.	Actual.	Excess (-) Deficit (-)
786.23.	£	£	£	£	£	£	£	£	£
First decade, 1920-29 (10½ financial years) Second decade:	_	4,502,018	_	_	851,484	_	3,892,000	3,650,534	-241,466 [†]
1930 1931 1932	958,000 1,019,000 —	808,237 842,490 761, 22 0	-149,763 -176,510	145,000 158,000 —	148,337 171,556 151,466	+ 3,337 +13,556	813,000 861,000 —	659,900 670,934 609,754	- 153,100 - 190,000
						Total	_	5,591,122	

LAND ACQUISITION.

Acquisitions during the year amounted to 81,933 acres net, of which 46,437 acres were classified as plantable. This area is larger than is normally necessary for the maintenance of the new planting programme and represents for the most part commitments incurred under the old programme.

Acquisition of Plantable Land.

Year ending	Бу	Lease or Fe	eu.	В	y Purchas	e.	Total.				
30th September.	Proposed.	Actual.	Excess(+) Deficit(-)	Proposed.	Actual.	Excess (+) Deficit (-)	Proposed.	Actual.	Excess (+) Deficit (-)		
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.		
First decade, 1920–29	160,000	156,759	- 3,241	222,000	153,471	- 68,529	382,000	310,230	- 71,770		
Second decade: 1930 1931 1932	10,000 10,000	8,409 4,851 4,970	-1,591 -5,149	50,000 50,000 —	25,951 44,007 41,467	-24,049 -5,993	60,000 60,000 —	34,360 48,858 46,437	- 25,640 - 11,142 		
Total	_	174,989		_	264,896	_	_	439,885			

Note.—In addition, 4,866 acres were acquired in Ireland to March 31st, 1922.

PLANTING PROGRAMME.

State Forests.

The area planted during the year was 22,663 acres.

Area Planted.

Year	ending		Proposed	Ac	tually Plant	æd.	Excess (+) Deficit (-) on Decade
30th Se	ptembe	er.	to be Planted.	New Planting.	Replace- ments.	Total.	or Annual Programme.
First decade	,	a,	Acres.	Acres.	Acres.	Acres.	Acres.
Conifers Hardwoo	-29 : ds		150,000 unspecified	125,799 5,774	4,969 1,737	130,768 7, 511	-19,232
Second deca	ade:					138,279	-
19 3 0	•••		25,000	21,426†	3,662†	25,088	+88
1931	•••	•••	25,000	24,24 8	1,396†	25,644	+644
1932	•••	•••	20,000*	21,959	704	22,663	+2,663
Total	•••	•••	_	199,206	12,468	211,674	-

* Minimum area. † Revised owing to re-survey.

Note.—In addition, 1,697 acres were planted in Ireland to March 31st, 1922.

The total area planted to September 30th, 1932, was 211,674 acres, of which 198,759 acres consisted of conifers and 12,915 acres of hardwoods. New planting accounted for 199,206 acres and replacements 12,468 acres. Details are given below.

	$Conifers. \ Acres.$	$Hardwoods.\ Acres.$	$Total.\ Acres.$
New planting Replacements	189,22 7 9,532	9,979 2,936	199,206 12,468
Total	198,759	12,915	211,674
19340			A 3

Assistance to Local Authorities and Private Owners.

Under the Commissioners' new programme financial provision has been continued for State assistance to local authorities and private owners for the planting of approximately 6,000 acres per annum. The area planted during the year was 5,189 acres, details of which are given on page 31.

The total area planted to date is as follows:—

Acres. 72,683
6,702
5,932
5,189
90,506

EDUCATION AND RESEARCH.

Education.—During the year under review Cambridge University announced its intention of closing its Forestry School as a place for training forest officers; the number of such schools in Great Britain is thus reduced from five to four. It is anticipated that the forestry teaching at Cambridge will be continued in a modified form so as to include the subject in courses of instruction in estate management and agriculture.

Recruitment to the Commission's Apprentices' Schools has been curtailed in consequence of the reduction of the planting programme.

Research.—This has continued on the same general lines as in previous years. Work has been kept under review by the Advisory Committee appointed in 1929. Mr. G. V. Jacks, Acting Deputy Director of the Imperial Bureau of Soil Science, has taken the place of Dr. A. F. Joseph, late Deputy Director, and Professor J. H. Priestley of Leeds University has been appointed an additional member.

HOME-GROWN TIMBER.

The Commissioners have given a considerable amount of attention during the year under review to the question of improved utilisation of home-grown timber. Investigations carried out in association with the Forest Products Research Laboratory, Princes Risborough, had already shown, in a general way, that well-grown home timbers, if suitably prepared, can compete on equal terms, as regards quality, with the corresponding imported woods. It was felt therefore

that, in common with the movement to restrict imports and "Buy British," the time might be propitious for promoting the increased use of home-grown timbers. A Committee was accordingly appointed in December, 1931, to advise the Commissioners on the subject. The Committee as at present constituted is as follows:—

Sir John Stirling-Maxwell (Chairman), The Lord Clinton, J. H. Milne Home, Esq., Sir Ralph Pearson (Director, Forest Products Research Laboratory), John D. Sutherland, Esq. (Assistant Commissioner for Scotland), Sir Stephen Tallents (Secretary, Empire Marketing Board), W. L. Taylor, Esq. (Assistant Commissioner for England and Wales). Secretary: F. G. O. Pearson, Esq.

It is understood that the Committee has completed the first stage of its enquiries and now has an Interim Report under consideration.

MINISTRY OF LABOUR TRAINING CAMPS.

The Commissioners have continued to co-operate with the Ministry of Labour in establishing training camps for unemployed. The course of instruction takes the form of giving the trainees work such as road-making, scrub-clearing, etc., which will ultimately prove useful in working the forests but would not normally be undertaken for some years to come. There is consequently no displacement of local labour.

It is understood that the procedure is satisfactory from the Ministry of Labour point of view and arrangements are in train for increasing the number of camps of which there were seven at September 30th, 1932.

OPERATIONS—FOREST YEAR 1931-1932.

The Forestry Fund.

The position of the Forestry Fund at September 30th, 1932, and at the same date in previous years is shown in Table I.

Table I.—Forestry Fund Account.

	D.I		Receipts.		D	Balance
Year ending 30th September.	Balance from pre- ceding Year.	Parlia- mentary Votes.	From Forestry Opera- tions, etc. (Table II, Head Z).	Total.	Payments. (Table II, Heads A to L).	in Forestry Fund, 30th Sept- ember.
	(1)	(2)	(3)	(4)	(5)	(6)
First decade:	£	£	£	£	£	£
Five years, 1920–24	_	1,734,000	192,600	1,926,600	1,428,420	498,180
1925 1926 1927 1928 1929	498,180 402,661 251,936 406,103 384,259	300,000 335,000 645,400 485,600 500,000	121,933 122,341 127,764 141,492 145,354	421,933 457,341 773,164 627,092 645,354	517,452 608,066 618,997 648,936 680,147	402,661 251,936 406,103 384,259 349,466
Total, 1925-29	_	2,266,000	658,884	2,924,884	3,073,598	
Total, First decade		4,000,000	851,484	4,851,484	4,502,018	
Second decade: 1930 1931 1932	349,466 627,366 446,432	937,800 490,000 447,000	148,337 171,556 151,466	661,556	808,237 842,490 761,220	627,366 446,432 283,678
Total, 1930-32	<u> </u>	1,874,800	471,359	2,346,159	2,411,947	
Grand Total	_	5,874,800	1,322,843	7,197,643	6,913,965	—

An analysis of payments and receipts by Parliamentary Heads of Accounts is given in Table II. Compared with the previous year, total payments decreased from £842,490 to £761,220, a reduction of £81,270, mainly under the heads of forestry operations and forest workers' holdings. Receipts were lower by £20,090, and net payments were therefore £61,180 less than in 1931.

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

	NET	Payments.	(14)	ध	1,235,820	395,519	485,725	491,233	507,444	534,793	2,414,714	3,650,534	669,900	670,934	609,754	1,940,588	5,691,122
	RECEIPTS.	Z.	(13)	ધ્ય	192,600	121,933	122,341	127,764	141,492	145,354	658,884	851,484	148,337	171,556	151,466	471,359	1,322,843
		Total.	(12)	4	1,428,420	517,452	608,066	618,997	648,936	680,147	3,073,598	4,502,018	808,237	842,490	761,220	2,411,947	6,913,965
	j	Forest Workers' Holdings.	(11)	43	5,036	42,175	63,939	73,354	64,726	76,225	320,419	325,455	96,418	96,315	46,999	239,732	565,187
	Ä	Special Services.	(10)	ઝ	13,960	2,850	3,403	483	1,276	1,370	9,382	23,342	403	337	474	1,504	24,846
	J.	Agency and Advisory Services.	6)	अ	91,770		1	1	1	I	1	91,776	ı	l	1		91,778
	Ë	Research and Experi- ment.	(8)	બ	12,682	2,601	3,981	4,424	5,872	7,367	24,245	36,927	6,901	7,577	6,653	21,131	58,058
PAYMENTS.	G	Education.	3	3	37,702	7,460	8,192	7,525	7,594	7,531	38,302	76,004	9,355	9,628	6,925	25,908	101,912
PAYM	Į.	Advances for Afforesta- tion Purposes.	(9)	Ⴗ	127,439	31,166	12,012	14,024	10,776	12,407	80,385	207,824	14,102	14,067	13,649	41,818	249,642
	Ĕ	Forestry Operations.	(2)	ધ્ય	857,722	369,281	451,124	450,854	488,639	501,217	2,261,115	3,118,837	598,119	629,461	603,735	1,831,316	4,950,152
	ė.	Divisional Officers' Charges.	(4)	3	32,659	7,643	8,685	8,455	8,107	8,885	41,775	74,434	9,418	484,6	10,007	29,212	103,646
	G.	Assistant Commis- sioners' Charges.	(3)	भ	14,898	2,770	2,804	3,108	3,500	3,446	15,688	30,586	7,658	4,704	3,414	15,776	46,362
	B.	Head- quarters' Charges.	(2)	લા	10,271	2,315	2,097	2,934	2,256	2,803	12,405	22,676	2,571	5,267	5;851	13,689	36,365
	, A.	Salaries, Wages and Allow- ances.	(1)	લ	224,275	40,191	51,769	53,836	56,190	58,896	269,882	404,167	63,202	65,347	63,313	191,862	686,019
9340	Year	September.		First decade:	1920-24	1925	1926	1927	1928	1929	Total, 1925–29	Total, First decade	Second decade: 1930	1861	1932	Total, 1930-32	Grand ca Total

Table II is limited to sums actually expended or received, recorded by the Parliamentary Heads of Account under which they occurred. In subsequent tables, which are based on commercial practice, outstanding 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 of land and buildings transferred from the forests to forest workers' holdings. In addition, payments and receipts in respect of forestry operations conducted by the Commissioners in Ireland during the period 1919 to 1923, which are necessarily included in Tables I and II, are omitted from the succeeding tables. (Expenditure in Ireland amounted to £90,514 and income to £26,041.)

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

Table IIa.—Expenditure and Income.

	NET Expende	TURE.	(14)	વ્ય	1,163,784	386,981	482,429	483,921	511,699	540,276	2,405,306	3,569,090	666,364 675,057 597,476	1,938,897	5,507,987	
		TOTAL.	(13)	अ	197,250	136,351	126,285	141,839	162,122	152,712	719,309	916,559	160,606 179,037 161,104	500,747	1,417,306	001
MB.		Mis- cellaneous.	(12)	ध	4,601	850	727	379	185	194	2,335	6,936	406 386 77	869	7,805	9.9
INCOME.	Z5.	Forest Workers' Holdings.	(11)	भ	∞	1,257	3,374	6,074	8,216	8,586	27,507	27,515	12,206 13,583 16,811	42,600	70,115	4.9
	Z1.	Forestry Operations.	(10)	ᡤ	192,641	134,244	122,184	135,386	153,721	143,932	689,467	882,108	147,994 165,068 144,216	457,278	1,339,386	94.6
		TOTAL.	6)	બ	1,361,034	523,332	608,714	625,760	673,821	692,988	3,124,615	4,485,649	826,970 854,094 758,580	2,439,644	6,925,293	100
1).	i	Forest Workers' Holdings.	(8)	약	5,906	56,522	75,837	82,524	95,880	73,214	383,977	389,883	108,575 109,020 56,357	273,952	663,835	9.6
of Column	Ä.	Special Services.	(2)	લ	36,142	8,178	4,409	3,151	5,758	3,661	25,157	61,299	2,097 1,891 2,357	6,345	67,644	6.0
g Allocation	J.	Agency and Advisory.	(9)	લો	90,763	1,954	2,007	1,538	1,643	1,328	8,470	99,233	1,177 1,167 1,135	3,479	102,712	1.5
EXPENDITURE (including Allocation of Column 1).	Ħ	Research and Experi- ment.	(2)	લો	34,482	6,404	7,437	8,337	10,769	12,221	45,168	79,650	12,338 12,598 12,326	37,262	116,912	1.7
Expenditu	Ģ.	Education.	(4)	લા	52,510	9,915	10,600	9,470	9,426	9,392	48,803	101,313	10,208 11,411 8,884	30,503	131,816	1.9
	ij.	Advances for Affores- tation. Purposes.	(3)	લો	146,698	34,387	14,960	16,822	13,491	15,336	94,996	241,694	16,944 16,573 16,341	49,858	291,552	4.3
	Þ	Forestry Operations.	(2)	વ્ય	994,533	405,972	493,464	503,918	536,854	577,836	2,518,044	3,512,577	675,631 701,434 661,180	2,038,245	5,550,822	80.2
A to D.	Superior Super-		Ð .	41	245,930	60,205	65,091	67,776	909'02	72,570	336,248	682,178	83,414 85,803 80,972	250,189	832,367	
	Year	ending 30th September.		First decade :	1920-24	1925	1926	1927	1928	1929	Total, 1925–29	Total, First decade	Second decade: 1930 1931	Total 1930–32	Grand Total	
19340																A

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 March 21st, 1924 and June 1st, 1926.

Subheads A to D—General Organisation. Expenditure, £80,972.

Compared with 1931, expenditure decreased by £4,831 due to reductions in staff. During the year under review the posts of Chairman and Technical Commissioner were combined, one post of Divisional Officer rank (Land Acquisition) and one temporary Estate Officer post were retrenched, and the number of District Officers was reduced from 40 to 38.

Subhead E—Forestry Operations. Expenditure, £661,180; Income, £144,216.

Details of expenditure and income are given in Table E. Gross expenditure was £40,254 less than in 1931, mainly due to decreases of £33,002 on cultural operations, £3,107 on roads and buildings and £8,299 on miscellaneous items. Acquisition of land shows an increase of £7,108. Income from forestry operations fell by £20,852.

Overhead Charges, £29,352; Superior Supervision, £30,004 and Local Supervision, £40,633.—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, the salaries, housing allowances and miscellaneous expenses of foresters and foremen. During the year the number of foresters and foremen was increased by three from 248 to 251.

Table E.—Forestry Operations.

	NET EXPEN- DITURE.	(12)	ᡤ	801,892	271,728	371,280	368,532	383,133	433,904	1,828,577	2,630,469	527,637	536,306	510,964	1,580,967	4,211,436	
	Total.	(14)	ધ્ય	192,641	134,244	122,184	135,386	153,721	143,932	689,467	882,108	147,994	165,068	144,216	457,278	1,339,386	100
INCOMB (Table IIa, Column 10)	Other.	(13)	બો	40,407	16,389	19,698	14,375	16,502	15,268	82,232	122,639	16,219	20,802	16,621	53,642	176,281	13.2
Table IIa,	Forest Produce.	(12)	भ	96,753	54,862	44,005	72,111	72,552	66,311	309,841	406,594	63,949	56,768	40,477	170,194	576,788	43.1
INCOMES (Rents and Royalties.	(11)	બ	42,902	39,367	42,086	45,483	49,116	55,137	231,189	274,091	65,184	71,930	70,249	207,363	481,454	85.9
	Sales of Land, Build- ings,	(10)	अ	12,579	23,626	16,395	3,417	15,551	7,216	66,205	78,784	2,642	15,568	7,869	26,079	104,863	2.8
	Total.	(8)	अ	994,533	405,972	493,464	503,918	536,854	577,836	2,518,044	3,512,577	675,631	701,434	661,180	2,038,245	5,550,822	100
	Stores and Miscel- laneous.	(8)	બ	94,997	45,129	69,851	54,711	78,426	68,563	316,680	411,677	63,154	71,661	63,362	198,177	609,854	0.11
	Roads and Build- ings.	(2)	બો	26,604	18,485	17,954	20,813	14,817	16,815	88,884	115,488	26,566	27,483	24,376	78,425	193,913	e3 70
mn 2).	Prepara- tion and Sale of Produce	(6)	બો	19,459	15,684	16,576	23,543	22,649	20,942	99,394	118,853	22,871	20,972	20,345	64,188	183,041	3.3
EXPENDITURE (Table IIa, Column 2)	Cultural Opera- tions.	(2)	બ	431,378	164,125	200,889	230,543	247,231	236,635	1,079,423	1,510,801	280,356	285,558	252,556	818,470	2,329,271	42.0
ITURE (Tal	Acquisi- tion of Land, etc.	(4)	ઝ	220,573	101,471	118,607	298'86	97,210	149,781	566,936	787,509	186,640	193,444	200,652	580,636	1,368,145	24.6
EXPEND	Local Super- vision.	(3)	ᡤ	41,049	18,433	24,224	27,430	29,407	33,587	133,081	174,130	36,674	30,413	40,633	116,720	290,850	5.2
	Superior Super- vision.	(2)	વ્ય	76,249	23,943	24,522	24,041	24,519	27,848	124,873	201,122	29,957	30,929	30,004	90,890	292,012	5.3
	Over- head Charges.	(1)	બ	84,224	18,702	20,841	22,970	22,595	23,665	108,773	192,097	29,413	31,974	29,352	90,739	283,736	1.9
	Year ending 30th September.		First decade :	Five years, 1920-24	1925	1926	1927	1928	1929	Total, 1925–29	Total, First decade	Second decade: 1930	1931	1032	Total, 1930–32	Grand Total	Percentage

Acquisition of Land, Buildings and Standing Timber.—Expenditure amounted to £200,552, of which £177,416 was in respect of purchases of land, including the standing timber and buildings thereon, and £23,136 was in respect of land held on long lease or feu.

The average rent or feu duty for land acquired for forestry operations during the year by lease or feu was approximately 10d. per acre and the average price for such land purchased, approximately £2 4s. per acre. If the whole outlay in respect of land, buildings, timber, etc., were charged against plantable land the figures would be 2s. 9d. and £3 17s. respectively. Land and buildings for forest workers' holdings are excluded.

The total area of land acquired during the forest year 1931-32 amounted to 86,389 acres, of which 47,757 acres were classified as plantable. On the other hand disposals and adjustments

amounted to 4,456 acres (1,320 acres plantable).

The net total area in Great Britain in respect of which the legal formalities of acquisition by the Department had been completed by September 30th, 1932, was 705,952 acres, the corresponding figures in the two previous annual reports being 603,224 and 516,866 acres. In addition to these completed acquisitions, entry has been secured to a number of other properties. Details are given in the table below, which also shows the area of "plantable" and "other land," i.e., land which is either too poor to plant or is required for other purposes.

Land acquired from November 29th, 1919, to September 30th, 1932.

		By Le	ease and	Feu.	Ву	Total by		
		Plant- able (in- cluding planted).	Other Land.	Total.	Plant- able (in- cluding planted)	Other Land.	Total.	Lease, Feu and Pur- chase.
England and Wales—		Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Finally completed Entry secured		99,955 2,836	13,828 220	113,783 3,056	162,484	52,893	215,377 —	329,160 3,056
Total		102,791	14,048	116,839	162,484	52,893	215,377	332,216
Scotland— Finally completed Entry secured		72,198	74,849	147,047	102,412	127,333	229,745	376,792
Total		72,198	74,849	147,047	102,412	127,333	229,745	376,792
Great Britain	•••	174,989	88,897	263,886	264,896	180,226	445,122	709,008

Note.—In addition to the above-mentioned areas, 120,696 acres of Crown woodlands have been transferred to the Forestry Commissioners. Of this area, 62,554 acres carry timber or are under forestal treatment.

The net total area acquired in Great Britain to September 30th, 1932, was 709,008 acres, of which 439,885 acres were classified at the time of acquisition as plantable. Of the plantable area 265,275 acres (60 per cent.) are situated in England and Wales and 174,610 acres (40 per cent.) in Scotland.

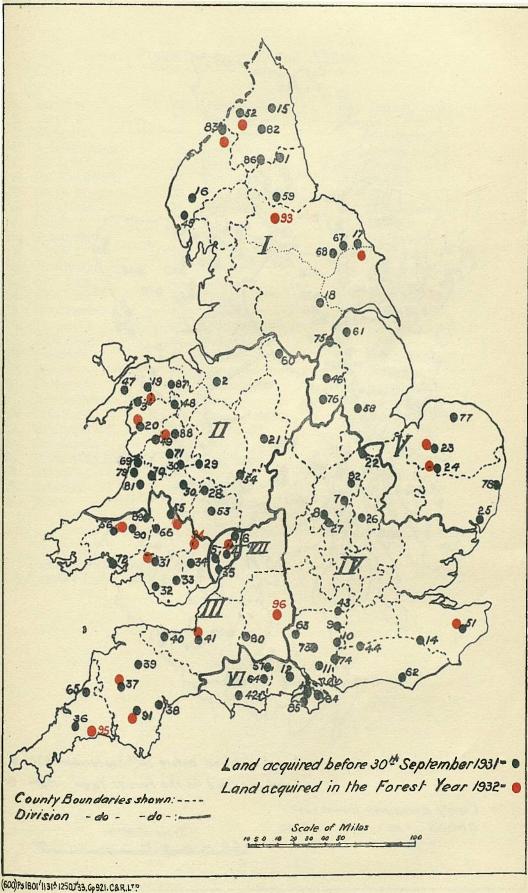
ENGLAND AND WALES.

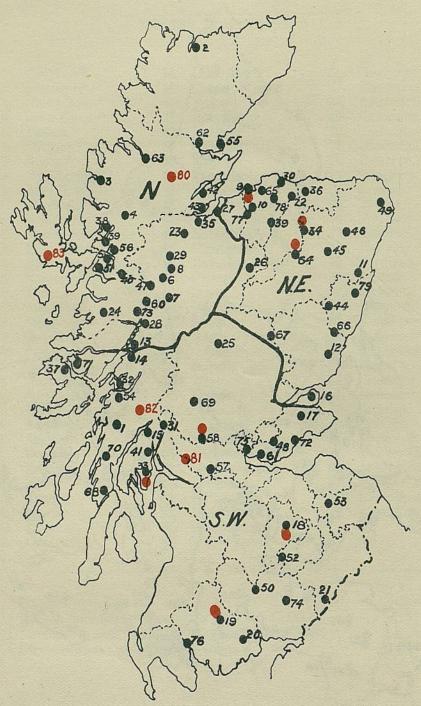
FORESTRY COMMISSION AREAS.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	Chopwell.* Delamere.* Hafod Fawr.* Dean Forest.*† Tintern.* Dymock.* Salcey.* Hazelborough.* Alice Holt.* Woolmer.* Bere.* New Forest.* Parkhurst.* Bedgebury.* Rothbury.	34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48.	Llanover. Chepstow. Bodmin. Halwill. Haldon. Eggesford. Exmoor. Quantocks. Wareham. Bramshill. Chiddingfold. Ennerdale. Clipstone. Beddgelert. Cynwyd.	66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 80.	Mathrafal. Pembrey. Westbury. Buriton. Bawtry. Sherwood. Swanton.
16.	Thornthwaite.	49.	Dovey.‡	81.	Myherin.
17.	Allerston.	50.	${f Radnor}.$	82.	Harwood.
18.	Selby.	51.	Lyminge.	83.	Kershope.
19.	Gwydyr.	52.	North Tyne Valley	84.	Combley.
20.	Vaughan.		(and Kielder).	85.	Brighstone.
21.	Cannock Chase.	53 .	Haugh.	86.	Slaley.
22.	Rockingham.	54.	Wyre.	87.	Clocaenog.
23.	Swaffham.	55.	Brecon.	88.	Dyfnant.
24.	Thetford.	56.	$\mathbf{Brechfa.}$	89.	Crychan.
25.	Rendlesham.	57.	Ringwood.	90.	Caio.
26.	Ampthill.	58.	Bourne.	91.	Dartmoor.
27.	Brackley.	59.	$\mathbf{H}_{\mathbf{amsterley}}$.	92.	Yardley Chase.
28.	Mortimer.	6 0.	Hope.	93.	Arkengarthdale.
29.	Walcot.	61.	Laughton.	94.	Mynydd Ddu.
30.	Kerry.	62.	Friston.	95.	Herodsfoot.
31.	Rheola.	63.	Micheldever.	96.	West Woods.
32.	Margam.	64.	Ferndown.		
33.	Llantrisant.	65.	Wilsey Down.		

^{*} Former Crown Woods.

[†] Now includes the area previously known as Chase. ‡ Includes the area previously known as Corris Valley. § Formerly known as Glangwili.





Land acquired before 30th September 1931 - •

Land acquired in the Forest Year 1932 - •

County Boundaries shown: -----

Scale of Miles

100

SCOTLAND.

FORESTRY COMMISSION AREAS.

,	Inverliever.*	29.	Chair nam Turn	57.	Lennox Castle.
l.		29. 30.	Craig-nan-Eun. Altonside.	57. 58.	Loch Ard.
2.	Borgie.				
3.	Slattadale.	31.	Ardgartan.	59 .	Scootmore.
4.	Achnashellach.	32.	Barcaldine.	60.	Clunes.
5.	Ratagan.	33.	Benmore.	61.	Devilla.
6.	Inchnacardoch.	34.	The Bin.	62.	Balblair.
7.	South Laggan.	35.	Craig Phadrig.	63.	Lael.
8.	Port Clair.	3 6.	Ordiequish.	64.	Clashindarroch.
9.	Culbin.	37.	Salen.	65.	Roseisle.
10.	Monaughty.	38.	North Strome.	66.	Inglismaldie.
11.	Kirkhill.	3 9.	South Strome.	67.	Blackcraig.
12.	Montreathmont.	4 0.	Glenshiel.	68.	Achaglachgach.
13.	Glen Righ.	41.	Glenfinart.	69.	Tulloch.
14.	Glenduror.	42.	Findon.	70.	Knapdale.
15.	Glenbranter.	43 .	Kessock.	71.	Fiunary.
16.	Tentsmuir.	44.	Drumtochty.	72.	Carden.
17.	Edensmuir.	45 .	Midmar.	73.	Glenloy.
18.	Glentress.	46 .	Kemnay.	74.	Auchenroddan.
19.	Bennan.	47.	Glengarry.	75.	Tulliallan.
20.	Dalbeattie.	48.	Blairadam.	76.	Kirroughtree.
21.	Newcastleton.	49 .	Deer.	77.	Newtyle.
22.	Teindland.	50.	Forest of Ae.†	78.	Newton.
23.	Glenurquhart.	51.	Eilanreach.	79.	Durris.
24.	Glenhurich.	52.	Greskine.	80.	Longart.
25.	Drummond Hill.	53.	Edgarhope.	81.	Garadhban.
26.	Glenmore.	54.	Fearnoch.	82.	Inverinan.
27.	Culloden.	55.	Dornoch.	83.	Glenbrittle.
28.	Nevis.	56.	Inverinate.	50.	U, 2021 U 1 2 0 4 0 4
_0.	1101101	00.			

^{*} Former Crown Wood. † Formerly known as Closeburn.

'n

Table E

Cultural Operations.—Expenditure amounted to £252,556, details of which are given in Table E5. Plantations accounted for £197,582 and nurseries £54,974.

Plantations.—The total area planted or sown during the year was 22,663 acres, of which 21,277 acres were placed under conifers and 1,386 acres under broadleaved species. Included in the above are 522 acres reafforested in the former Crown woodlands and 182 acres replanted after damage by fire.

The total addition to the woodland area of Great Britain as a result of the Commission's operations, was 16,927 acres. In forming plantations and beating-up previous years' plantations 51,601,000 trees were used, of which 39 per cent. were Norway and Sitka spruces; 32 per cent. Scots and Corsican pines; 14 per cent. European and Japanese larches, and 3 per cent. Douglas fir.

An area of 242 acres of existing woods was underplanted, necessitating the use of 217,000 plants.

		A	rea pla	inted (acres).			
Forest.	Affo	rested.	Re-aff	forested.	Total.		
	Coni- fers.	Broad- leaved.	Conifers.	Broad- leaved.	Coni- fers.	Broad- leaved.	
Alice Holt, Hants* Allerston, Yorks Ampleforth, Yorks Ampthill, Bedford Arkengarthdale, Yorks	334 106 — 47	1 1 1 1	39 — — —	- - - -	39 334 106 — 47	4 - - - -	
Bawtry, Notts Beddgelert, Caernarvon Bedgebury, Kentand Sussex* Bere, Hanta* Bodmin, Cornwall Bourne, Lincoln and Rutland Brackley, Bucks and Northants.	90 3		25 89 48	1 	90 3 49 2 102 89 48		
Bramshill, Berks and Hants Brechfa, Carmarthen† Brecon, Brecknock Brighstone, Isle of Wight Bruton, Somerset and Wilts Buriton, Hants and Sussex Caio, Carmarthen Cannock Chase, Stafford	387 109 — 88 — 130 135	$\begin{array}{c} - \\ - \\ 2 \\ - \\ - \\ 72 \\ - \\ 12 \end{array}$	28 4 17 		28 387 109 — 92 — 147 135		
Chepstow, Glos. and Mon- mouth.	-	-	3	-	3	_	
Chiddingfold, Surrey and Sussex. Chopwell, Durham* Clipstone, Derby and Notts Clocaenog, Denbigh and Meri-			4 - 50 -	92 — 99 —	4 242 463	92 131 2	
oneth. Combley, Isle of Wight Crychan, Carmarthen Cwmeinon, Cardigan Cynwyd, Merioneth Dartmoor, Devon Dean Forest, Glos., Here-	92 44 — 103 8		1 - 29 - 127	61 — — — — 99	1 92 44 29 103 135	61 — — — — — 104	
ford and Monmouth.*; Delamere, Cheshire* Dovey, Merioneth and Mont-	355	_	31 139		31 494	_	
gomery. § Dunwich, Suffolk Dyfnant, Montgomery Dymock, Gloucester and	185 39 16	21 			185 55 16	21 - 2	
Hereford. Eggesford, Devon Ennerdale, Cumberland Exmoor, Somerset Ferndown, Dorset Friston, Sussex	 89 32 52 	5 3 34	17 56 —	1 - - -	17 89 88 52	1 5 — 3 34	

^{*} Former Crown Woods.
† Formerly known as Glangwili, Carmarthen.

Species planted, including beating-up (thousands).									
Scots and Corsican Pines.	Eur. and Jap. Larches.	Douglas Fir.	Norway and Sitka Spruces.	Oak.	Ash.	Beech.	Others.	Total.	Forest.
31 438 51 18	68 373 63 21	24 24 29 —	11 112 89 2 80	10 - 40 -	_ _ _ _ 13	1 6 1 —	9 102 11 1 —	134 1,055 244 95 80	Alice Holt.* Allerston. Ampleforth. Ampthill. Arkengarth- dale.
128 	47 	25 - 7 - 3	53 117 27 — 56 6	1 -64 -8	2 — — — — 96 31	8 2 —	9 - 2 - - 2 2	240 117 137 81 181 175 103	Bawtry. Beddgelert. Bedgebury.* Bere.* Bodmin. Bourne. Brackley.
102 23 63 29 — 80 504	180 49 7 20 102 15	49 21 — 29 — 19	8 407 190 — 66 — 155 135		- - 7 - 6 40 5	5 - - 209 - 3	7 -49 3 74 -131	110 671 330 85 124 425 274 787	Bramshill. Brechfa.† Brecon. Brighstone. Bruton. Caio. Cannock
22	29	9	11	_	_	2	3	76	Chase, Chepstow.
3	5	_	25	203	55	2	1	294	Chiddingfold.
519 9	128 185		$\frac{14}{619}$	- 3 -	51 —	_ 	$\begin{array}{c c} 2\\164\\14\end{array}$	18 865 839	Chopwell.* Clipstone. Clocaenog.
			1 178 74 31 171 85		34 34	- - - 7 - 60	39 — 7 — 113	74 178 74 92 176 549	Combley. Crychan. Cwmeinon. Cynwyd. Dartmoor. Dean Forest.*‡
79 2	9 55		<u> </u>	_	_	2 1	1 44	91 908	Delamere.* Dovey.§
449 — 10	 - 19				<u> </u>	_ _ _	42 2 3	491 100 158	Dunwich. Dyfnant. Dymock.*
2 69 118 41	7 23 20 —	29 9 40 —	384 24 17			2 2 4 - 79	8 70 1 46	42 428 227 136 180	Eggesford. Ennerdale. Exmoor. Ferndown. Friston.

[‡] Includes forest previously known as Chase, Hereford. § Includes forest previously known as Corris Valley, Merioneth.

Plantations. Year ended 30th

	Area planted (acres).								
Forest.	Affo	rested.	Re-aff	orested.	To	otal.			
•	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.			
Glasfynydd, Brecknock Gwydyr, Caernarvon and	56 374	_	152	_	56 526	_			
Denbigh.	314	_	102	_	520				
Hafod Fawr, Merioneth*	17	_	l —	_	17	_			
Haldon, Devon	54	_	69		123				
Halwill, Devon	48				48	_			
Hamsterley, Durham	175		l —		175	_			
Harwood, Northumberland	145	_	l —	_	145	_			
Haugh, Hereford	_	_	14	14	14	14			
Hazelborough, Northants*			_		_				
Hope, Derby	62	10		_	62	10			
Kerry, Montgomery and Salop	25	_	-		25				
Kershope, Cumberland	240	_	_		240	-			
Laughton, Lincoln	174	13	24	1	198	14			
Llanover, Monmouth	70	_	60	_	13 0	· 			
Llantrisant, Glamorgan	66	_	_	_	66				
Lyminge, Kent	_	_	75	3	75	3			
Margam, Glamorgan	23	_			23	_			
Mathrafal, Montgomery		_	47	5	47	5			
Micheldever, Hants	_	75		30	_	105			
Mortimer, Hereford, Radnor and Salop.	90	2	216	2	306	4			
Myherin, Cardigan	308		40		348	_			
New Forest, Hants*		_	40	51	40	51			
North Tyne Valley, Northum-	83				83				
berland.	1								
Parkhurst, Isle of Wight*			l <u> </u>	16		16			
Pembrey, Carmarthen	149	11	l _		149	11			
Quantocks, Somerset	_		l <u> </u>	<u> </u>					
Radnor, Radnor	126	10	10	1	136	11			
Rendlesham, Suffolk	259	48			259	48			
Rheola, Glamorgan	83		62	13	145	13			
Ringwood, Dorset and Hants	198	<u> </u>		_	198				
Rockingham, Northants	86	47	11	18	97	65			
Rosedale, Yorks	153				153	_			
Rothbury, Northumberland				_		_			
Salcey, Bucks and Northants*		_	l _	23		23			
Selby, Yorks			_						
Sherwood, Notts	132	6	_	_	132	-6			
Slaley, Northumberland	110	6	_	_	110	6			
Swaffham, Norfolk	40	l _ `	6	_	46				
Swanton, Norfolk	25		50	-2	75	2			
Tarenig, Cardigan and Mont-	79	_	_		79	-~			
gomery. Thetford Chase, Norfolk and	1,497	146	356	24	1,853	170			
Suffolk. Thornthwaite, Cumberland	92	7	-	_	92	7			

^{*} Former Crown Woods.

September, 1932—England and Wales—contd.

	Species planted, including beating-up (thousands).									
Scots and Corsican Pines.	Eur. and Jap. Larches.	Douglas Fir.	Norway and Sitka Spruces.	Oak.	Ash.	Beech.	Others.	Total.	Forest.	
106	88	110	109 661	_ 5	_	_	32	109 1,002	Glasfynydd. Gwydyr.	
164 6 54 5 —	37 - 141 - 35 -	40 6 6 	60 29 140 259 250 6		- - - - - 5 6	5 4 ———————————————————————————————————	27 - 3 1 -	60 297 157 467 256 72 6	Hafod Fawr.* Haldon. Halwill. Hamsterley. Harwood. Haugh. Hazel- borough.*	
2 218 100 2 5 27 — 66	4 -1 13 100 77 120 - 58 119 405	-7 -7 -8 2	122 93 474 200 128 126 478 19 —	10	- - 1 - - 4 - 5 1 1		62 64 4 20 - 1 -	188 100 483 496 332 225 145 511 84 408 508	Hope. Korry. Kershope. Laughton. Llanover. Llantrisant. Lyminge. Margam. Mathrafal. Micheldever. Mortimer.	
— 61 11	164 43 —	_ _ _	485 68 205		4 	95 —		650 383 228	Myherin. New Forest.* North Tyne	
3 401 5 2 621 36 332 8 64 3 27 288 213 435 10	1		- 1 41 187 - 347 47 333 264 9 - 40 - 78 159	13 — — — — — — — — — — — — — — — — — — —	24 	6 - 5 13 - 9 21 9 1 1	2 56 2 10 19 61 — 11 — 14 — 78 41 8 4	28 458 62 303 743 476 404 833 342 36 48 28 449 296 443 131	Valley. Parkhurst.* Pembrey. Quantocks. Radnor. Rendlesham. Rheola. Ringwood. Rockingham. Rosedale. Rothbury. Salcey.* Selby. Sherwood. Slaley. Swaffham. Swanton. Tarenig.	
4,447 7	139 60	158 13	2 163	154 —	1 —	287 9	111 20	5,299 272	Thetford Chase. Thornthwaite.	

		Area planted (acres).								
Forest.	Affo	Afforested.		forested.	Total.					
	Coni- fers.	Broad- leaved.	Conifers.	Broad- leaved.	Coni- fers.	Broad- leaved.				
Vaughan, Merioneth Walcot, Salop Wareham, Dorset Westbury, Hants Wilsey Down, Cornwall Wyre, Worcester	180 155 74 —	- - - - 1 -	22 312 — — — — 54 58	2 49 3 78	22 492 — 155 — 74 54 58	2 49 1 3 78				
Total	8,624	570	2,452	720	11,076	1,290				
By direct sowing (include above.	ed —	4	_			4				

			Pla	antations	s. Ye	ar ended
Achaglachgach, Argyll Achnashellach, Ross Ardgartan, Argyll Auchenroddan, Dumfries Balblair, Sutherland Barcaldine, Argyll Benmore, Argyll Bennan, Kirkcudbright Bin (The), Aberdeen Blackcraig, Perth Blairadam, Fife and Kinross Borgie, Sutherland Carden, Fife Clashindarroch, Aberdeen Clashindarroch, Aberdeen Clunes, Inverness Craig-nan-Eun, Inverness Craig Phadrig, Inverness Culbin, Moray and Nairn Culloden, Inverness Dalbeattie, Kirkcudbright Devilla, Fife Dornoch, Sutherland Drummond Hill, Perth Drumtochty, Kincardine Edensmuir, Fife Edgarhope, Berwick	80 	12 -2 -2 	Pla	ntations	80 309 310 169 160 115 32 274 127 59 9 430 117 190 157 146 135 98 115 190 279 97 49 59	ar ended
Eilanreach, Inverness Fearnoch, Argyll Findon, Ross	156 134	1	_ 75		156 134 75	1 1
Fiunary, Argyll	226		-		226	
Forest of Ae, Dumfries† Garadhban, Stirling	181		_		181 108	
Glenbranter, Argyll	106	_	_	_	106	_
Glenbrittle, Isle of Skye	50	_		_	50	_
Glenduror, Argyll	104	—	-	_	104	

^{*} Former Crown Wood.

September, 1932—England and Wales—contd.

	Species planted, including beating-up (thousands).								
Scots and Corsican Pines.	Eur. and Jap. Larches.	Douglas Fir.	Norway and Sitka Spruces.	Oak.	Ash.	Beech.	Others.	Total.	Forest.
20 4 — 214 6 — 2 2	57 245 4 — 11 — 101 67	19 199 12 — — — — — 12	27 303 — 15 — 128 4 36		5 -2 -1 -5 94	4 1 — 120 3 —	4 9 -53 -6 1 4	136 761 6 294 138 137 113 264	Tintern.* Vaughan. Walcot. Wareham. Westbury. Wilsey Down. Wyre. Yardley Chase.
10,962	4,279	1,136	9,985	1,052	836	1,313	1,710	31,273	Total.

30th~September,~1932-Scotland.

						. ———	. — —		·
19 64 94 12 182 39 26 36 10 3 19 1 22 2 30 5 363 7 81 40 163 157 203 1 ———————————————————————————————————	9 22 31 108 88 32 46 1 147 86 — 290 15 14 — 5 3 23 73 24 7 88 187 30		105 43 435 376 44 182 206 43 336 91 122 24 33 233 185 204 5 15 142 124 69 62 16 217 105			3 8 20 6 2 1 2 — 13 3 2 — 11 7 2 10 8	7 31 34 56 25 26 13 11 47 95 57 17 15 25 58 9	143 160 603 516 384 296 328 82 506 190 125 90 34 653 210 327 10 388 249 274 264 283 317 487 151	Achaglachgach. Achnashellach. Ardgartan. Auchenroddan. Balblair. Barcaldine. Benmore. Bennan. Bin (The). Blackcraig. Blairadam. Borgie. Carden. Clashindarroch. Clunes. Craig-nan-Eun. Craig Phadrig. Culbin. Culloden. Dalbeattie. Deer. Devilla. Dornoch. Drummond Hill Drumtochty. Durris.
363	5		- 5		=	_			Culbin.
30		60		_	l <u> </u>				Craig-nan-Eun
5	_	4	_	_	—				Craig Phadrig.
	5		5	_		—	15		Culbin.
	3	2	15	_			 		Culloden.
	23	_		_	2		. —		Dalbeattie.
40		[_	1	11	25	274	Deer.
163	24		69	1	l —		—	264	Devilla.
157	7	_	62	_	l —	2	55	283	
203	88	_	16	l. <u>—</u>	—		—	317	
1 1	187	21		3	l —	l — 1	58		
	30	8	105	_	_	8		151	
167	_	_	18	_	l —	_	9	194	Edensmuir.
99	54	l — i	7	l —	l —		. —	160	Edgarhope.
13	43	12	166	<u> </u>	l —	—	21	255	Eilanreach.
21	20	l — i	199	—		1	—	241	Fearnoch.
160	6	2	36	—	l —	7	12	223	Findon.
96	124	—	143	l –		—	32	395	Fiunary.
19	27	 .	283		_	—	1	330	Forest of Ae.†
25	60		103	1 —	—	2	—	190	Garadhban.
5	18	-	293	_	—	—	36	352	Glenbranter.
11	17	_	60	_	—	l —	-	88	Glenbrittle.
9	<u> </u>		188	<u> </u>	<u> </u>	<u> </u>	27	224	Glenduror.

[†] Formerly known as Closeburn, Dumfries.

		A	rea plan	nted (acre	es).	
Forest.	Affo	rested.	Re-aff	orested.	To	otal.
	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.
Glenfinart, Argyll Glengarry, Inverness Glenhurich, Argyll Glenloy, Inverness Glennore, Inverness Glen Righ, Inverness Glenshiel, Ross Glentress, Peebles Glenurquhart, Inverness Greskine, Dumfries Inchnacardoch, Inverness Inglismaldie, Kincardine Inverinan, Argyll Inverinate, Ross Inverliever, Argyll* Inverinate, Ross Inverliever, Argyll* Inverinate, Ross Inverliever, Argyll* Inverliever, Kirkcudbright Kanapdale, Argyll Lael, Ross Lennox Castle, Stirling Loch Ard, Perth Midmar, Aberdeen Monaughty, Moray Montreathmont, Angus Nevis, Inverness Nevis, Inverness Newcastleton, Roxburgh Newtyle, Moray North Strome, Ross Ordiequish, Moray Port Clair, Inverness and Ross Ratagau, Inverness and Ross Ratagau, Argyll Scootmore, Moray Salen, Argyll Scootmore, Moray Slattadale, Ross South Laggan, Inverness South Strome, Ross Teindland, Moray Tentsmuir, Fife	140 241 251 216 50 30 180 42 101 103 165 9 104 70 100 70 437 241 150 92 161 160 24 191 59 8 39 166 123	12	12	7	140 253 251 216 230 50 30 11 180 42 42 101 50 103 165 9 46 32 244 100 70 437 73 61 78 241 150 161 150 161 150 161 150 161 165 161 165 161 165 161 165 161 161	1eaved.
Tulloch, Perth Total	7,674	59	2,345	37	102	96
By direct sowing (included above).	2			_	2	

					Pl	antation.	s. Ye	ar endea
England and Wales Scotland		·	8,624 7,674	570 59	$2,452 \\ 2,345$	720 37	11,076 10,019	1,290 96
Total	•••	•••	16,298	629	4,797	757	21,095	1,386

^{*} Former Crown Wood.

30th September, 1932-Scotland-contd.

83 42 — 234 — — 2 52 413 Nevis. 193 — — 277 — — — 5 282 Newcastleton. 55 15 2 81 — — 38 191 North Strome. 54 10 — 13 — — — 6 83 Ordiequish. 85 23 37 158 — — 1 39 343 Port Clair. 14 97 — 250 — 2 7 24 394 Ratagan. 391 — — — — 3 53 447 Roseisle. 65 — 2 229 — — 13 309 Salen.		Species	planted,	including	beating	g-up (th	ousand	s).		
65	and Corsic a n	and Jap.		and Sitka	Oak.	Ash.	Beech.	Others.	Total.	Forest.
36 122 10 118 — — 3 — 289 Scootmore. 5 1 6 31 — — — 43 Slattadale. 30 14 — 174 — — 3 17 238 South Laggan. 51 44 6 159 — — 28 288 South Strome. 84 8 — 47 — — 59 198 Teindland. 252 — — 29 — — 18 16 315 Tentsmuir. 17 44 — 110 — — 1 — 172 Tulloch. 5,304 2,760 421 10,186 5 19 241 1,392 20,328 Total.	65 7 13 233 11 13 42 38 264 95 48 75 35 66 57 15 43 24 146 87 169 155 83 193 55 143 391 65 36 36 30 51 85 85 14 85 14 85 16 16 16 16 16 16 16 16 16 16	37 -7 -1 -3 44 15 11 -3 73 -: 2 3 56 57 114 43 23 7 20 42 15 10 23 97 122 14 44 8 44 44		305 381 298 205 63 65 16 130 33 80 ——————————————————————————————————	1	13	1 2 — 6 — 4 — 3 — 7 — 10 1 9 6 6 — 14 9 — 5 2 — 3 — 1 7 3 — 3 — 3 — 18 1 — 18 1 — 1	18 7 22 6 77 11 17 5 17 26 8 — 11 — 148 6 8 8 2 1 31 — 38 6 39 24 53 13 — 17 28 53 13 — 14 15 17 17 17 17 18 18 18 18 18 18 18 18 18 18	436 396 327 460 81 142 55 305 95 377 108 185 330 24 141 76 55 201 458 220 135 830 172 259 413 282 211 191 83 343 394 447 309 43 288 198 198 198 198 198 198 198 1	Glengarry. Glenhurich. Glenloy. Glenmore. Glen Righ. Glenshiel. Glentress. Glenurquhart. Greskine. Inchnacardoch. Inglismaldie. Inverinan. Inverinate. Inverliever. Kemnay. Kessock. Kirkhill. Kirroughtree. Knapdale. Lael. Lennox Castle. Loch Ard. Midmar. Monaughty. Montreathmont. Newis. Newcastleton. Newtyle. North Strome. Ordiequish. Port Clair. Ratagan. Roseusle. Salen. Scootmore. Slattadale. South Laggan. South Strome. Teindland. Tentsmuir. Tulloch.

30th September, 1932—Summary.

10,962	4,279	1,136	9,985	1,052	836	1,313	1,710	31,273	England & Wales.
5,304	2,760	421	10,186		19	241	1,392	20,328	Scotland.
16,266	7,039	1,557	20,171	1,057	855	1,554	3,102	51,601	Total.

Cost of Planting.—The outlay per acre on labour and material on the areas planted between 1919 and 1932 was as follows:—

		æs.	α.	
England and Wales	 	9 3	0	
Scotland	 	 $9\ 15$	1	
Great Britain	 	 9 7	3	

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, overhead charges and supervision.

Forest Fires.—Fires were much more numerous than in 1931, but on the average the damage done was less. Comparative figures for the four years 1929 (drought year) to 1932 are as follows:—

			1929.	1930.	1931.	1932.
Number of fires	•••		409	165	213	315
Area burnt (acres)			4,574	25 8	171	262
Damage valued at		•••	£45,961	£2,080	£2,143	£2,813

In addition, two forest workers' holdings were destroyed by fire, the damage amounting to £1,403.

Claims amounting to £848 have been lodged by the Commissioners in respect of the fires which occurred during the year.

The forest fires were caused principally by sparks from railway engines (52 per cent. of the total number) and carelessness on the part of the general public (18 per cent.).

Nurseries.—The total area under nurseries at September 30th, 1932, was 914 acres stocked with 216 million seedlings and 83 million transplants. Comparative figures for the three years 1930-32 are given in the following table:—

Nurseries.

Year			Seed Sow	7 n	Stock of Plants at 30th September (thousands).							
end- ing	Country.	try.			Т	ransplant	ts.	Seedlings.				
30th Sept.	Oth Charles Burns		Total.	Conifer-	Broad- leaved.	Total.	Conifer- ous.	Broad- leaved.	Total.			
1932	England and	2,426	22,538	24,964	42,885	4,490	47,375	122,342	7,305	129,647		
	Wales. Scotland	2,126	1,056	3,182	34,637	799	35,436	85,497	1,214	86,711		
	Total	4,552	23,594	28,146	77,522	5,289	82,811	207,839	8,519	216,358		
1931	England and Wales.	8,366	14 ,844	23,210	48,609	7,039	55,648	189,833	4,365	194,198		
	Scotland	3,086	1,812	4,898	42,125	529	42,654	100,934	2,451	103,385		
	Total	11,452	16,656	28,108	90,734	7,568	98,302	290,767	6,816	297,583		
193 0	England and Wales.	7,556	130,169	137,725	55,827	6,338	62,165	142,832	14,396	157,228		
	Scotland	3,814	944	4,758	36,797	595	37,392	96,262	534	96,796		
	Total	11,370	131,113	142,483	92,624	6,933	99,557	239,094	14,930	254,024		

Seed Supply.—The only seed which had to be imported from North America was Sitka spruce from the Queen Charlotte Islands; Japanese larch could not be obtained from Japan. Norway spruce and European larch were in abundant supply from the Continent, but only a moderate quantity of Corsican pine was procurable. As regards Great Britain, Scots pine seed was plentiful, but requirements of European larch could not be met; seeds of hardwoods with the exception of ash were again scarce.

The quantity of seed sold during the year amounted to 508 lb. The Commissioners have to express their thanks for gifts of seed from the forest authorities of Bulgaria, France, Greece and Portugal.

Subhead F-Advances for Afforestation Purposes.

Expenditure £16,341.

Grants to private individuals and local authorities for planting and scrub-clearing amounted to £11,710, advances in respect of a proceeds-sharing scheme to £1,483 and overhead and supervisory charges to £3,148.

The basis on which grants are made is as follows:-

- (1) Conifers.—Up to £2 per acre planted and thereafter maintained as a forest crop.
- (2) Hardwoods.—Up to £4 per acre planted with approved species and thereafter maintained as an area for the production of hardwoods.
- (3) Clearance of Scrub, &c.—Up to £1 per acre (in exceptional cases up to £2 per acre) cleared. Limited to selected schemes involving not less than 20 acres.

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

_	England & Wales.	Scotland.	Total.
No. of Schemes	 168	132	300
Planting conifers Planting hardwoods Scrub clearing	 Acres. 1,937 598 124	Acres. 2,444 32 100	Acres. 4,381 630 224

The area planted under the proceeds-sharing scheme was 178 acres.

Subhead G—Education. Expenditure: Gross £8,884; Net £8,879.

Details of expenditure are given in Table G.

Table G.—Education.

		Exp	ENDITURE	(Table II	a, Columr	1 4).		1	
	Superior	A	prentices	Schools.					
Year ending 30th September.	Super- vision and Over- head	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.	NET Expen- diture,
First decade :	£	£	£	£	£	£	£	£	£
Five years, 1920-24	7,238	10,690	5,371	11,144	8,910	9,157	52,510	1,889	50,621
1925 1926 1927 1928 1929	1,240 1,361 1,231 1,005 1,050	1,150 1,138 769 803 851	166 235 185 109 129	1,685 2,347 2,028 2,303 2,202	931 1,280 1,122 971 978	4,743 4,239 4,135 4,235 4,182	9,915 10,800 9,470 9,426 9,392	435 17 68 9 9	9,480 10,588 9,402 9,417 9,383
Total, 1925-29	5,887	4,711	824	10,565	5,282	21,534	48,803	538	48,265
Total, First decade Second decade :	13,125	15,401	6,195	21,709	14,192	30,691	101,313	2,427	98,886
1930 1931 1932	900 880 789	820 759 882	838 1,949 259	2,203 2,143 1,982	1,215 1,450 968	4,232 4,230 4,004	10,208 11,411 8,884	263 64 5	9,945 11,347 8,879
Total, 1930-32	2,569	2,461	3,046	6,328	3,633	12,466	30,503	332	30,171
Grand Total	15,694	17,862	9,241	28,037	17,825	43,157	131,816	2,759	129,057
Percentage	11.9	13.5	7.0	21.2	13.7	32.7	100		

Apprentices' Schools: Expenditure, £4,091.—The expenditure was lower than in the previous year as no further additions had to be made to the school buildings. Forty-three forest apprentices underwent courses of instruction at Parkend (Forest of Dean) and Benmore (Argyllshire). Of those who completed the two years' course 30 were granted certificates of proficiency.

Grants to Universities and Colleges: Expenditure, £2,104.—The following Universities and Colleges received grants during the year:—Oxford University; Cambridge University; University College of North Wales, Bangor; Armstrong College, Newcastle-on-Tyne; Aberdeen University; Edinburgh and East of Scotland College of Agriculture. The number of students studying forestry was 183 and 52 degrees were awarded.

Imperial Forestry Institute: Expenditure, £1,900.—The annual grant to the Imperial Forestry Institute from the Forestry Fund was continued. Twenty-two students attended for the whole or part of the academic year 1931-32, including 8 post-graduate probationers from the Colonial Services, 10 forest officers on leave (India 3, Dominion Services 1, Colonial Services 6) and 4 private students.

Subhead H-Research and Experiment.

Expenditure: Gross £12,326; Net £12,284.

Details of expenditure are given in Table H.

Table H.—Research and Experiment.

] :	Expenditur	E (Table IIa	, Column 5).		
Year ending 30th September.	Superior Super- vision and Overhead Charges.	Salaries and Expenses.	Labour, Stores, etc.	Grants to Institu- tions.	Total.	Income.	NET EXPENDI- TURE.
TV-1-11	£	£	£	£	£	£	Ē
First decade : Five years, 1920-24	6,450	20,486	4,453	3,093	34,482	586	33,896
1925 1926 1927 1928 1929	1,662 1,492 1,376 1,584 1,135	3,030 3,336 3,492 3,682 4,432	1,112 1.946 2,712 4,758 5,249	600 663 757 745 1,405	6,404 7,437 8,337 10,769 12,221	43 110 93 93 133	6,361 7,327 8,244 10,676 12,088
Total, 1925-29	7,249	17,972	15,777	4,170	45,168	472	44,696
Total, First decade Second decade :	13,699	38,458	20,230	7,263	79,650	1,058	78,592
1930 1931 1932	1,316 1,292 1,149	5,079 5,323 5,329	4,529 4,588 4,452	1,414 1,395 1,396	12,338 12,598 12,326	105 278 42	12,233 12,320 12,284
Total, 1930-32	3,757	15,731	13,569	4,205	37,262	425	36,837
Grand Total	17,456	54,189	33,799	11,468	116,912	1,483	115,429
Percentage	14.9	46 · 4	28.9	9.8	100		

Production.—The normal work of remeasuring sample plots was continued and in addition four new plots were established during the year. Four sample plots of Douglas fir which were damaged by wind had to be abandoned. At September 30th, 1932, there were 186 plots, 105 being in England and Wales and 81 in Scotland.

Nursery and Plantation Experiments.—Work on the stratification of seed with sand prior to sowing led to interesting results especially in the case of Douglas fir and will be followed up. Tests on the control of weeds in nursery seedbeds by watering with dilute sulphuric acid were successful in checking weed growth without affecting the germination of the tree seeds. Further work was done on the use of sand and fine grit for covering small-seeded species such as Sitka spruce, birch and alder.

The reassessment of many of the plantation experiments on difficult soils shows that on the whole satisfactory progress is being made. In one series of plots of Japanese larch, planted on a relatively bad type of shallow peat in the west of Scotland, the trees have closed up to the extent of forming canopy in places. The plots, which are only five years old, were treated with basic slag at the time of planting and provide an interesting contrast to the intervening unmanured control areas in which the plants are making little progress. Experiments with different species for

advance planting on thin chalk soils have shown that grey alder is likely to be a useful species for this purpose. Ground frosts which occurred in September at Thetford Forest, Norfolk, severely damaged plots of larch, beech and Douglas fir; even Corsican pine were cut back in one area. Beech seedlings planted under the shelter of Scots pine 8 to 10 feet in height escaped damage. Further plots of conifers raised from seed from different sources were planted out in experimental areas in England and Scotland. Some of the earlier formed plots are already beginning to show interesting differences.

An investigation on pruning in young conifer plantations was carried out in the Forest of Dean and showed that to obtain the best results, the methods of working and the tools used require to be adapted to each species or group of species. The costing data collected support the view that, given proper attention to detail, pruning should be an economic practice.

Entomology and Mycology.—The investigation of disbudded plots of Scots pine has led to the recognition that, in its present form, the method of disbudding does not give adequate control; modified methods are being tried. Field and laboratory work on the oak-defoliating caterpillars was continued. The fifth annual survey in connection with the elm disease was carried out and revealed a distinct check to the progress of the disease in most areas. The use of sulphur sprays for the control of needle-cast of larch in nurseries was put into large-scale practice with generally satisfactory results. Research into frost damage on young trees is being continued at the Imperial Forestry Institute, Oxford.

Botany and Soils.—The functions of mycorrhiza in connection with the growth of pines upon certain heath soils in Dorset are being investigated for the Commissioners by Dr. M. C. Rayner of Bedford College, London. A special type of glass house has been erected for pot culture work in connection with this research. Other investigations in connection with tree mycorrhiza were continued at Aberdeen University. Soil research has chiefly dealt with the relation between tree growth and various properties of the soil in the Deeside district of Aberdeenshire.

Advisory Committee on Forest Research.—The Committee held its fifth meeting in June, 1932.

Utilisation.—A field test on the preservative treatment of fence posts was started in collaboration with the Forest Products Research Laboratory. Sets of treated and untreated posts were erected at Clocaenog Forest, North Wales; Thetford Forest, Norfolk; and Princes Risborough, Bucks. Material has been supplied to the Forest Products Research Laboratory for tests on the service-ability of poles of Corsican pine, Norway spruce, and Sitka spruce for carrying transmission lines.

Subhead J—Agency and Advisory Services. Expenditure: Gross, £1,135; Net, £1,107.

No direct expenditure was incurred under this head. The sum of £1,135 is an apportionment of overhead and supervisory charges in respect of the time of various officers of the Commission who have been engaged in answering enquiries and advising woodland owners as to the treatment of their woods.

Subhead K—Special Services. Expenditure: Gross, £2,357; Net, £2,355.

Details of expenditure are given in Table K.

Table K.—Special Services.

	E2	KPENDITUR:	E (Table	IIa, Colui	nn 7).			
Year ending 30th September.	Superior Supervision and Overhead Charges.	Consulta- tive Com- mittees' Expenses.	Publi- cations.	Special Enquir- ies.	Relief of Un- employ- ment.	Total.	In- come.	NET EXPEN- DITURE.
First decade : Five years, 1920-24	£ 10,760	£ 349	£ 1,634	£ 3,571	£ 19,828	£ 36,142	£ 278	£ 35,864
1925 1926 1927 1928 1929	3,226 3,052 2,740 4,503 2,304	50 32 13 33 46	78 74 43 45 121	4,824 1,251 355 1,177 1,190	——————————————————————————————————————	8,178 4,409 3,151 5,758 3,661	36 — 19 14	8,142 4,409 3,151 5,739 3,647
Total, 1925–29	15,825	174	361	8,797		25,157	69	25,088
Total, First decade Second decade :	26,585	523	1,995	12,368	19,828	61,299	347	60,952
1930 1931 1932	1,822 1,478 1,684	60 32 25	68 126 87	147 255 561	_ 	2,097 1,891 2,357	8 2	2,097 1,883 2,355
Total 1930-32	4,984	117	281	963		6,345	10	6,335
Grand Total Percentage	31,569 46·7	640 0·9	2,276 3·4	13,331 19·7	19,8 2 8 29·3	67,644 100	357	67,287

Publications.—During the year the following publications were issued:—Bulletin No. 13 (Studies on Tree Roots), Twelfth Annual Report of the Forestry Commissioners (being the report for the year ending 30th September, 1931), and the following leaflets were revised and reprinted:—No. 1 (Pine Weevils), No. 3 (The Pine Shoot Beetle), No. 9 (Forest Fires), No. 17 (Chafer Beetles) and No. 18 (Douglas Fir Leaf-cast Disease).

Exhibits at Agricultural Shows.—Forestry exhibits were sent by the Commissioners to the Shows of the Royal Agricultural Society at Southampton, the Bath and West Society at Yeovil and the Highland and Agricultural Society at Inverness.

Census of Production.—Shortly after the close of the year under review a report* on a census of production of home-grown timber relating to 1930 was published. The statistics show the total production in Great Britain to amount to 48 million cu. ft. valued at £1,545,000 compared with 56 million cu. ft. produced in 1924† when the value was estimated to be £2,036,000.

Consultative Committees.—The English and Welsh Consultative Committees each held one meeting during the year; the subjects under consideration included the production of hardwoods and forestry on private estates. No meeting of the Scottish Committee was held.

The undermentioned members of the respective Committees were appointed or re-appointed as from March 25th, 1932, in accordance with Section 1 (3) of The Forestry (Consultative Committees) Order, 1920:—

ENGLAND.

Chairman: Leslie S. Wood, Esq., F.S.I., F.L.A.S.

Vice-Chairman: -Col. B. J. Petre, D.L., J.P.

C. P. Ackers, Esq.
Arthur Arnold, Esq., F.L.A.S.
E. Callaway, Esq.
J. S. Corbett, Esq., O.B.E.
Rt. Hon. Viscount Cowdray.
Sir William Cundiff, J.P.
C. O. Hanson, Esq., I.S.O., M.B.E.
E. C. Horton, Esq., O.B.E.
Col. G. F. T. Leather.
Brig.-Gen. H. G. J. de Lotbinière, D.S.O.

Alex. F. Luttrell, Esq., D.L., J.P.
Herbert E. Newsum, Esq., J.P.
Hon. N. A. Orde-Powlett.
H. V. Raffety, Esq., O.B.E., F.S.I.
Thomas Roberts, Esq.
Col. W. St. A. Warde-Aldam, D.S.O.
J. W. Watt, Esq.
T. Williams, Esq., M.P.

Secretary: -F. W. Hamilton, Esq.

^{*} Report on Census of Production of Home-grown Timber, 1930. Published by H.M. Stationery Office. Price 3d.

[†] Report on Census of Woodlands and Census of Production of Home-grown Timber, 1924. Published by H.M. Stationery Office. Price 1s. 9d.

SCOTLAND.

Chairman:—Sir Hugh Shaw-Stewart, Bart., K.C.B., T.D. Vice-Chairman:—Rt. Hon. The Earl of Stair, D.S.O.

Lt.-Col. F. R. S. Balfour, F.L.S., D.L., J.P.
Professor A. W. Borthwick, O.B.E., D.Sc.
Gilbert Brown, Esq.
Sir James C. Calder, C.B.E.
Capt. George Campbell.
Sir Iain Colquhoun, Bart., D.S.O.
Reginald F. J. Fairlie, Esq., A.R.S.A.
Robert Galloway, Esq., S.S.C.

Sir Robert Greig, M.C., LL.D.
J. H. Milne Home, Esq.
George Leven, Esq.
James Maclaren, Esq.
J. Matson, Esq., O.B.E.
Donald Munro, Esq., O.B.E.
Joseph Rennie, Esq.
Sir William Wright Smith.
Sir John Stirling-Maxwell,
Bart., K.T.
H. George Younger, Esq.

Secretary: -F. C. Handford, Esq.

WALES.

Chairman:—Lt.-Col. Sir Francis D. W. Drummond, K.B.E., D.L., J.P.

Vice-Chairman:—Rt. Hon. The Earl of Powis, D.L., J.P.

Sir George B. Bowen, K.B.E., D.L., J.P. Lt.-Col. J. R. Davidson, C.M.G. Sir Michael Robert Duff-Assheton-Smith, Bart. Major John Francis, D.S.O., Ε̈́.S.Ι. Rt. Hon. Lord Glanusk, D.S.O., D.L. H. A. Hyde, Esq.

C. Bryner Jones, Esq., C.B.E.,

M.Sc.

H. Hadyn Jones, Esq., M.P.
Lt.-Col. W. N. Jones, D.L.,
J.P.
Sackville Owen, Esq.
Alderman T. Parry.
L. R. Pym, Esq.
J. I. Storrar, Esq., M.A.,
F.L.A.S.
Thomas Thomson, Esq., M.Sc.
R. W. Treseder, Esq.
Major R. J. Wordsworth.

Secretary: F. W. Hamilton, Esq.

Subhead L—Forest Workers' Holdings. Expenditure, £56,357; Income, £16,811.

Details of expenditure and income are given in Table L. The bulk of the expenditure was in respect of new buildings and adaptation and repair of existing buildings, which together accounted for £37,683. Income from rents increased by £3,213 to £16,781.

With the completion of 115 holdings during the year the total number at September 30th amounted to 1,156. The average cost of establishing holdings is £499, of which land accounts for £71, and cost of buildings, drainage, water supply, etc., £428.

The further information contained in the following statement may be of interest as showing the way in which the holdings have been utilised, the estimated value of live stock, etc.

	1932.
Number of forest workers resident on the holdings	1,108
Total number of residents on the holdings	4,628
Average annual rent of house, outbuildings and	
land	£14 $8s$.
Average area	11 acres
Head of live stock:—	
Horses	401
Cows	913
Other cattle (including calves) ,	720
Sheep	5,061
Pigs	2,225
Poultry	52,011
Miscellaneous (including goats)	926
Estimated value of the live stock	£37,000

Table L.—Forest Workers' Holdings.

,		_	ES	CPENDITURE (EXPENDITURE (Table IIa, Column 8).	dumn 8).			INCOME (INCOME (Table IIa, Column 11).	lumn 11).	
Year ending 80th Sentember	Superior Super-	Purchase and Rent		Buildings.		Fencing,	Wiscol					NET EXPEN- DITURE.
	and Overhead	of Land and Buildings.	New.	Adapta- tions.	Repairs.	Drainage, etc.	laneous.	Total.	Rents.	Other.	Total.	
	(1)	(2)	(3)	(4)	(5)	(9)	3	(8)	(6)	(10)	(11)	(12)
Hirst doondo .	4	લા	બ	ઝ	બ	લ	વ્ય	વો	બ	佑	क	બ
Five years, 1920-24	831	5,000	1	75	ļ	1	1	5,906		60	80	5,898
1925	3,668	27,356	16,069	7,415	23	620	1,371	56,522	876	381	1,257	55,265
1926	5,372	23,353	87,519	7,130	441	2,136	-114	75,837	3,266	108	3,374	72,463
	8,221	9,058	54,632	4,959	744	3,942	896	82,524	5,889	185	6,074	76,450
1928	8,779	31,394	41,188	7,480	1,167	4,571	1,301	95,880	₩,716	200	8,216	87,664
6261	9,023	622,2	42,776	5,243	1,507	6,292	169	73,214	8,514	72	8,586	64,628
Total, 1925-29	35,063	98,940	192,184	32,227	3,882	17,561	4,120	383,977	26,261	1,246	27,507	356,470
Total, First decade	35,894	103,940	192,184	32,302	3,882	17,561	4,120	389,883	26,261	1,254	27,515	362,368
Second decade:	11,196	34,410	43,126	10,932	2,536	5,905	473	108,575	12,119	87	12,206	698,369
1631	11,054	17,437	54,095	15,435	3,528	6,713	758	109,020	13,568	15	13,583	95,437
1932	9,157	3,974	26,635	4,352	969'9	4,511	1,032	56,357	16,781	30	16,811	39,546
Total, 1930–32	31,407	55,821	123,856	30,719	12,760	17,126	2,263	273,952	42,468	132	42,600	231,352
Grand Total	67,301	159,761	316,040	63,021	16,642	34,687	6,383	663,835	68,729	1,386	70,115	593,720
Percentage	10.1	24.1	47.6	9.5	2.5	5.5	ı	100		_		

Subhead Z—Income, £161,104.

Total income was £17,933 less than in the previous year. Sales of land and buildings decreased by £7,699, forest produce by £7,291 and "other" income from forestry operations by £4,181. Details are given in Table Z.

Table Z.—Income.

		Fores	try Operati	ons.		Forest Workers'		
Year ending 30th September.	Sales of Land, Buildings, etc.	Rents and Royalties.	Forest Produce.	Other.	Total.	Holdings (Rents, etc.).	Miscel- laneous.	Grand Total.
First decade :	£	£	£	£	£	£	£	£
Five years, 1920-24	12,579	42,902	96,753	40,407	192,641	8	4,601	197,250
1925 1926 1927 1928 1929	23,626 16,395 3,417 15,551 7,216	39,367 42,086 45,483 49,116 55,137	54,862 44,005 72,111 72,552 66,311	16,389 19,698 14,375 16,502 15,268	134,244 122,184 135,386 153,721 143,932	1,257 3,374 6,074 8,216 8,586	850 727 379 185 194	136,351 126,285 141,839 162,122 152,712
Total, 1925-29	66,205	231,189	309,841	82,232	689,467	27,507	2,335	719,309
Total, First decade Second decade : 1930	78,784 2,642	274,091 65,184	406,594 63,949	122,639 16,219	882,108 147,994	27,515 12,206	6,936 406	916,559 160,606
1931 193 2	15,568 7,869	71,930 70,249	56,768 49,477	20,802 16,621	165,068 144,216	13,583 16,811	386 77	179,037 161,104
Total, 1930-32	26,079	207,363	170,194	53,642	457,278	42,600	869	500,747
Grand Total	104,863	481,454	578,788	176,281	1,339,386	70,115	7,805	1,417,360
Percentage	7 · 4	34.0	40 · 7	12.4	94.5	4.9	0.6	100

Under the head of forestry operations, rents and royalties include £16,230 from the Forest of Dean mines (£2,344 less than in 1931); "other" income comprises sales of live stock £5,561 (£3,729 less than in 1931), sand and gravel £2,607 and miscellaneous estate, farm and forest receipts £8,453.

Employment in the Commission's Forests.

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

Summer (Minimum).					Winter (Maximum).				
1920				210	1920-21			938	
1921				495	1921-22			1,780	
1922				525	1922-23			1,778	
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	1931–3 2			3, 505	
1932				2,720	1932 – 33	•••		3,985	

(Signed)

R. L. Robinson (Chairman).

F. D. ACLAND.

G. L. COURTHOPE.

D. R. GRENFELL.

HUGH MURRAY.

A. Rodger.

W. R. SMITH.

S. STRANG STEEL.

W. STEUART-FOTHRINGHAM.

A. G. HERBERT, Secretary,

> 9, Savile Row, London, W.

APPENDIX.

Imports of Timber, Wood Manufactures and Pulp of Wood.

Statistics relating to these imports are given in the table below, the figures in each case being for the calendar year.

The quantity of unmanufactured timber imported during 1932 was only slightly less than in the previous year, being 7,983,000 loads—a reduction of 145,000 loads (1.8 per cent.). There was a marked falling off in the price, the value at £25,602,000 being lower by £3,537,000 (12·1 per cent.). The decrease in values applied to nearly all classes of timber but was especially marked in the case of sawn softwoods and railway sleepers.

Imports of wood manufactures were also lower than in 1931, the value being £5,445,000 as against £7,534,000 or a decrease of 27.7 per cent.

As regards pulp of wood the quantity imported was greater by 25.6 per cent. than in 1931, being 1,845,000 tons as compared with 1,469,000 tons, but there was no appreciable difference in the total value (£8,420,000).

Imports of Timber, Wood Manufactures and Pulp of Wood.

		uantities		ls).		Value (th	ousands).	
Description.	Average 1909-13.	Average 1914-18.	1931.	1932.		Average 1914-18.	1931.	1932.
Hewn-Hard— Mahogany Walnut Oak Teak Other sorts Hewn-Soft (fir, pine, spruce, etc.).	Loads.*	Loads.*	Loads.* 17 1 14 1 33 391	TIMBE Loads.* 20 45 425	£ £ — — — — — — — 1,353	£ 583	£ 178 14 137 15 303 1,090	193 384 924
Sawn-Hard— Mahogany Walnut Oak Teak Other sorts Sawn-Soft—		— — — —	15 5 217 23 272	10 511		— — —	231 132 2,116 594 2,191	148 4,549
Deal and planks Boards Other sorts Planed or	 	<u> </u>	2,623 1,133 509	4,220	 	 	9,051 3,824 1,804	}13, 050
Dressed—Floorings Matchings Other sorts Other	_ 	 	394 84 111	} 577{	 	_ _ _	1,763 377 530	2,319
Descriptions— Pitprops Staves Sleepers Veneers and	2,944 161 —	1,673 71 130 —	1,900 45 335 5	1,918 26 224 7	3,510 795 — —	4,425 648 602 —	3,070 369 1,044 306	2,929 197 573 336
panel wood. Not elsewhere specified.	6,557†	3,550†	_ ,		21,903†	24,362†		
Total unmanu- factured timber.	10,204	5,553	8,128	7,983	27,561	30,620	29,139	25,602
Furniture and	_		Wo	OD MANUE	ACTURES.	115	757	306
cabinet ware. Builders' wood- work (window frames, doors,	 ;	_			180	62	1,212	715
etc.). Plywood Tool handles Domestic woodwork (bread platters, trays,	 	_ _ _		_ _ _	_ _ _	_	2,017 154 313	2,122
etc.). Not elsewhere specified.	_	_	-		2,099	1,821	3,081	}
Total manufac- tured timber.			<i></i>		2,695	1,998	7,534	5,445
Pulp of wood	Tons. 859	Tons. 682	Tons. 1,469	PULP OF V Tons. 1,845	Vоод. 4,058	7,915	8,462	8,420

^{*} 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 classification from 1920 onwards.