

FORESTRY COMMISSION.

NINTH ANNUAL REPORT

OF THE

FORESTRY COMMISSIONERS.

Year ending September 30th, 1928.

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

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Year ending September 30th, 1928.

FOREST POLICY.

During the year a decision was reached as to Forest Policy for the decade 1929-39. Speaking in the House of Commons on 31st July, the Chancellor of the Exchequer, Mr. Churchill, made the following announcement :—

“ The Government have undertaken to ask Parliament to vote a total sum of £5,500,000 into the Forestry Fund in agreed annual instalments during the 10 years commencing 1st April, 1929, as compared with the sum of £3,500,000 which has been provided during the last 10 years. In addition, the Forestry Commission will enjoy an increased revenue from forest products of about £1,400,000 in all as compared with £775,000 which is the estimated figure for the first 10 years. These sums will enable the Commission to provide 225,000 acres of new plantations, to devote £1,000,000 to Forest Workers' Holdings, and to make grants for other purposes, including the planting of municipal and private land, and forestry education and research. The Government fully appreciate the importance of proceeding with the agreed policy of forestry development, and of endeavouring to ensure, so far as the national finances permit, that the country shall grow an adequate proportion of its timber requirements. Having regard, however, to the many competing demands upon the Exchequer, they regret that the increased provision now proposed is the utmost which the Exchequer can undertake at the present time.”

Sir Leolin Forestier-Walker, K.B.E., M.P., resigned, for reasons of health, from the Commission on 16th January, 1929, and Major C. W. M. Price, M.P., was appointed in his place.

Finance.

The balance remaining in the Forestry Fund at 30th September, 1927, was £406,103. Payments into the Fund amounted to £627,092, and out of the Fund to £648,936. The balance at the end of the year was consequently £384,259.

Out of the total amount of £3½ millions due to be paid into the Forestry Fund, under the Forestry Act, 1919, before the 31st March, 1929, £3,014,400 had been paid to the 30th September, 1927, the £485,600 remaining was paid into the Fund during the year under review.

Land Acquisition.

Acquisition during the year amounted to 43,953 acres, of which 32,056 acres were classified as plantable. Disposals amounted to 993 acres (981 acres plantable), thus reducing the net acquisition of plantable land to 31,075 acres. Net acquisitions to the end of the forest year 1928 are compared in the table below with the proposals of the Acland Report. The total area of plantable land acquired to the 30th September, 1928, amounted to 275,913 acres, or 57,287 acres less than the proposed area.

Acquisition of Plantable Land.

Year ended 30th Sept.	By Lease or Feu.			By Purchase.			Total.		
	Proposed (Acland Report).	Actual.	Excess (+) Deficit (-).	Proposed (Acland Report).	Actual.	Excess (+) Deficit (-).	Proposed (Acland Report).	Actual.	Excess (+) Deficit (-).
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1920 ...	8,800	24,776	+15,976	22,000	6,434	-15,566	30,800	31,210	+ 410
1921 ...	9,200	19,774	+10,574	22,000	13,186	- 8,814	31,200	32,960	+ 1,760
1922 ...	8,800	22,703	+13,903	22,000	687	-21,313	30,800	23,390	- 7,410
1923 ...	8,800	21,885	+13,085	22,000	6,704	-15,296	30,800	28,589	- 2,211
1924 ...	17,600	8,099	- 9,501	24,000	12,356	-11,644	41,600	20,455	-21,145
1925 ...	18,000	16,194	- 1,806	22,000	24,835	+ 2,835	40,000	41,029	+ 1,029
1926 ...	17,600	10,476	- 7,124	22,000	25,974	+ 3,974	39,600	36,450	- 3,150
1927 ...	18,000	11,301	- 6,699	22,000	19,454	- 2,546	40,000	30,755	- 9,245
1928 ...	26,400	11,559	-14,841	22,000	19,516	- 2,484	48,400	31,075	-17,325
Total	133,200	146,767	+13,567	200,000	129,146	-70,854	333,200	275,913	-57,287

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

Planting Programme.

(A) STATE FORESTS.

Conifers.—The progress made in the realisation of the 150,000-acre programme is shown in the table below. The area planted during the year was 21,496 acres, compared with 26,700 acres under the Acland Programme and 26,800 acres under the Commissioners' revised programme. The total to the end of the year was 110,910 acres, compared with 120,000 acres for the Acland Programme and 119,700 for the revised programme.

Planting Programme: Conifers.

Year.	Acland Com- mittee's Pro- gramme.	Com- missioners' Revised Pro- gramme.	Actually planted.	Surplus (+) or Deficit (-) on	
				Acland Com- mittee's Pro- gramme.	Com- missioners' Revised Pro- gramme.
	Acres.	Acres.	Acres.	Acres.	Acres.
1st year, 1919-20 ...	Nil		1,094	+ 1,094	
2nd " 1920-21 ...	3,300		5,660	+ 2,360	
3rd " 1921-22 ...	6,700	} 51,900	9,387	+ 2,687	} - 2,154
4th " 1922-23 ...	10,000		9,558	- 442	
5th " 1923-24 ...	13,300		9,923	- 3,377	
6th " 1924-25 ...	16,700		14,124	- 2,576	
7th " 1925-26 ...	20,000	18,400	17,834	- 2,166	- 566
8th " 1926-27 ...	23,300	22,600	21,834	- 1,466	- 766
9th " 1927-28 ...	26,700	26,800	21,496	- 5,204	- 5,304
10th " 1928-29 ...	30,000	30,300			
Total ...	150,000	150,000	110,910	- 9,090	- 8,790

Note.—The figures for 1922-26 have been reduced by 613 acres consequent upon the transfer of Churt to the War Office, and, owing to a re-survey, the figure for 1926-27 has been reduced by 129 acres.

In addition to the areas indicated above, 1,697 acres were planted in Ireland to 31st March, 1922.

Broadleaved Species.—No definite programme has been laid down for the 10-year period. The areas actually planted in Great Britain are :—

	Acres.
1919-20	116
1920-21	269
1921-22	175
1922-23	656
1923-24	454
1924-25	575
1925-26	378
1926-27	1,510
1927-28	1,633
Total	5,766

Total.—The total area planted to 30th September, 1928, was 116,676 acres. The planting programme for the current season is 23,000 acres and should this be fully completed the total area planted by the Commissioners in the 10 years will amount to 139,676 acres.

(B) ASSISTANCE TO LOCAL AUTHORITIES AND PRIVATE OWNERS.

The area proposed, under the Acland Report, to be afforested or replanted by local authorities and private owners with State assistance during the 10 years was 110,000 acres, or an average of 11,000 acres per annum. The following work has been carried out by means of grants.

Year.		Planted.	Prepared for Planting.	Cleared of Scrub.
		Acres.	Acres.	Acres.
1921-22	...	10,192	9,127	3,322
1922-23	...	6,148	6,075	2,015
1923-24	...	6,530	2,772	1,721
1924-25	...	7,467	2,597	1,391
1925-26		4,675	—	267
1926-27	...	6,849	—	538
1927-28	...	5,512	—	197
		<hr/>	<hr/>	<hr/>
Total ...		47,373	20,571	9,451
		<hr/>	<hr/>	<hr/>

Recipients of grants for "preparation for planting" undertook to plant up without payment of a further grant.

The following planting work has also been done in connection with two proceeds-sharing schemes initiated by the Development Commissioners :—

	Acres.
1919-20	357
1920-21	213
1921-22	257
1922-23	...
	91
1923-24	320
1924-25	316
1925-26	197
1926-27	230
1927-28	163
	<hr/>
Total	2,144
	<hr/>

Education and Research.

There have been no changes in the organisation and course of this work which has made steady progress.

Forest Workers' Holdings.

The systematic formation of forest workers' holdings was begun in the summer of 1924, and had therefore been running for four years at the end of the year under review. Up to September 30th, 1928, 490 holdings had been completed (133 in the year under review), and 282 were in process of formation.

OPERATIONS—FOREST YEAR 1927-28.

The Forestry Fund.

The position of the Forestry Fund at September 30th, 1928, and at the same date in previous years is shown in Table I.

Table I.—Forestry Fund Account.

Year ending 30th September.	Balance from preceding Year.	Receipts.				Total.	Payments. Table II. Heads A. to L.	Balance remaining in the Fund 30th September.
		For Forestry Fund Proper.		For Relief of Unemployment.				
		Parliamentary Votes.	Other (Table II. Head Z.)	Parliamentary Votes.				
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
	£	£	£	£	£	£	£	
1920	Nil.	478,000	12,229	—	490,229	106,858	383,371	
1921	383,371	200,000	29,149	—	229,149	318,768	293,752	
1922	293,752	20,000	24,544	250,000	294,544	398,431	189,865	
1923	189,865	153,000	40,736	100,000	293,736	271,615	211,986	
1924	211,986	453,000	85,942	80,000	618,942	332,748	498,180	
1925	498,180	300,000	121,933	—	421,933	517,452	402,661	
1926	402,661	335,000	122,341	—	457,341	608,066	251,936	
1927	251,936	645,400	127,764	—	773,164	618,997	406,103	
1928	406,103	485,600	141,492	—	627,092	648,936	384,259	
Total	—	3,070,000	706,130	430,000	4,206,130	3,821,871	—	

Receipts and payments by Parliamentary Heads of Accounts are shown in Table II. Total payments rose from £618,997 to £648,936, an increase of £29,939. The main increase is on Forestry Operations by £37,785 to £488,639; expenditure on Forest Workers' Holdings declined by £8,628 to £64,726. Receipts rose from £127,764 to £141,492, and net payments were therefore only £16,211 greater than in the previous year.

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

Year ending 30th September.	A. Salaries, Wages and Allowances.	B. Headquarters Charges.	C. Assistant Commissioners' Charges.	D. Divisional Officers' Charges.	E. Forestry Operations.	F. Advances for Afforestation Purposes.	G. Education.	H. Research and Experiment.	J. Agency and Advisory Services.	K. Special Services.	L. Forest Workers' Holdings.	Total Pay- ments.	Z. Re- ceipts.	Net Pay- ments.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
£	£	£	£	£	£	£	£	£	£	£	£	£	£	£
1920...	25,156	577	1,825	4,829	66,550	—	4,547	1,538	1,577	259	—	106,858	12,229	94,629
1921...	71,925	1,256	3,880	10,207	208,630	352	9,222	3,340	9,557	399	—	318,768	29,149	289,619
1922..	51,459	4,454	5,242	7,314	201,139	51,050	10,386	2,686	63,395	1,006	—	398,431	24,544	373,887
1923...	38,050	2,137	2,439	4,722	156,965	30,790	8,717	2,308	15,151	10,336	—	271,615	40,736	230,879
1924...	37,685	1,847	1,512	5,287	224,438	45,247	4,830	2,810	2,096	1,960	5,036	332,748	85,942	246,806
1925...	49,191	2,315	2,770	7,643	309,281	31,166	7,460	2,601	—	2,850	42,175	517,452	121,933	395,519
1926...	51,769	2,097	2,864	8,685	451,124	12,012	8,192	3,981	—	3,403	63,939	608,066	122,341	485,725
1927...	53,836	2,934	3,108	8,455	450,854	14,024	7,525	4,424	—	483	73,354	618,997	127,764	491,233
1928...	56,190	2,256	3,500	8,107	488,639	10,776	7,594	5,872	—	1,276	64,726	648,936	141,492	507,444
Total	435,261	19,873	27,140	65,549	2,617,620	195,417	68,473	29,560	91,776	21,972	249,230	3,821,871	706,130	3,115,741

The working results for 1928 and previous years are shown in Table IIa, in which all salaries, wages, allowances and similar charges which have to be kept separate for Parliamentary purposes are allocated to the appropriate objects of expenditure. Income and expenditure for each year are brought to account irrespective of whether they have been received and paid respectively. Table IIa, which is the basis of the financial tables appearing later in the Report, consequently differs in some respects from Tables I and II, which show cash transactions only.

Table IIa.—Expenditure and Income Classified by Objects.

Year ending 30th Septem- ber.	Expenditure.										Income.						(20) Net Expenditure Col. (11) less Col. (19).									
	Sub-heads A. to D., i.e. Superior Super- vision and Overhead charges.			(3) Capital (Un- allocated).	(4) Forestry Opera- tions.	(5) Advances for Afforestation Purposes.	(6) Education.	(7) Research and Experiment.	(8) Agency and Ad- visory Services.	(9) Special Services.	(10) Forest Workers' Holdings.	Total Cols. (3) to (10) Inclusive.			(12) Forestry Opera- tions.	(13) Education.		(14) Agency and Ad- visory Ser- vices.	(15) Research and Experiment.	(16) Forest Workers' Holdings.	Advances for Purposes.		(18) Special Services.	(19) Total Cols. (12) to (18) Inclusive.		
	(1) Totals.	(2) Sub-heads A. to L.	(3) Capital (Un- allocated).									(11) Total Cols. (3) to (10) Inclusive.	(17) Advances for Purposes.	(18) Special Services.												
1920 ...	86,990	85,170	1,820	334,148	1,373	21,544	15,472	7,809	5,401	—	387,567	37,387	199	688	—	688	—	—	—	—	—	—	—	38,224	349,343	
1921 ...	53,384	51,368	1,516	229,644	60,426	12,357	6,646	60,658	13,495	—	384,742	30,999	1,396	547	—	547	—	—	—	—	411	252	—	31,172	350,570	
1922 ...	44,342	44,286	56	181,099	37,505	11,792	5,125	18,148	6,327	—	260,552	33,607	1,510	36	—	36	—	—	—	—	89	12	—	35,264	225,288	
1923 ...	36,634	36,426	208	247,037	47,147	8,243	7,139	3,785	10,253	5,901	329,713	90,698	324	13	—	13	—	—	—	—	64	14	—	91,130	238,583	
1924 ...	57,207	57,453	—246	406,156	34,399	9,953	6,411	1,962	8,192	56,538	523,365	134,439	468	135	43	1257	—	—	—	201	36	—	136,579	386,786		
1925 ...	61,998	61,805	193	493,323	14,350	10,608	7,432	2,001	4,399	75,820	604,726	122,846	29	600	110	3,374	—	—	—	—	—	—	—	126,959	481,767	
1926 ...	64,929	65,178	—249	504,099	16,833	9,513	8,342	1,644	3,161	82,556	625,799	137,415	107	218	93	6,074	—	—	—	—	—	—	—	143,907	481,892	
1927 ...	67,505	68,239	—734	47,626	2,908	1,016	1,601	1,661	4,552	8,875	67,505	—	—	—	—	—	—	—	—	—	—	—	—	67,506	—	
1928 ...	Direct	—	—	489,740	10,614	8,421	9,185	—	1,255	87,101	606,316	156,042	9	64	93	8,216	—	—	—	—	—	—	—	—	164,443	441,873
Total, 1928 ...	67,505	68,239	—734	537,366	13,522	9,437	10,786	1,661	5,807	95,976	673,821	156,042	9	64	93	8,216	—	—	—	—	—	—	—	—	164,443	509,378
Total:																										
Great Britain 1920-28	472,989	470,425	2,564	2,932,872	226,155	93,447	67,353	97,568	57,535	316,791	3,794,285	743,333	4,042	2,301	925	18,929	—	—	—	—	765	333	—	770,678	3,023,607	
Ireland 1920-23	27,262	26,479	783	18,674	—	2,877	—	57,965	10,215	—	90,514	690	80	25,245	—	—	—	—	—	—	—	26	—	26,041	64,473	
Grand Total...	500,251	496,904	3,317	2,951,546	226,155	96,324	67,353	155,533	67,750	316,791	3,884,799	744,073	4,122	27,546	925	18,929	—	—	—	—	765	359	—	796,719	3,088,080	

Note.—Salaries of Instructors in Schools and of Research and Experiment Officers are shown under Salaries, Wages, etc. (A.) in Table II, but under Education (G.) and Research (H.) in the above Table.

Sub-heads A to D, General Organisation : Expenditure : £67,505.

There is an increase in expenditure over 1927 of £2,576 due to the expansion of operations. During the year the number of District Officers increased from 29 to 33.

**Sub-head E, Forestry Operations : Expenditure, £537,366 ;
Income, £156,042.**

Details of expenditure and income are given in Table E below. Compared with 1927, gross expenditure increased by £33,267 and receipts by £18,627. Cultural operations cost £16,688 more at £247,231, due to the expansion of the area under establishment; expenditure on stores and miscellaneous increased by £23,715 to £78,426, the increase including an unusual item, viz. : £16,000 advanced to a colliery company in Dean Forest.

Overhead Charges, £22,839; Superior Supervision, £24,787, and Local Supervision, £29,407.—Overhead charges is an apportioned sum representing the expenditure on all salaries, allowances and office charges other than those of Divisional Officers, District Officers, Deputy Surveyors and their Assistants (all of which are included under superior supervision), and foresters and foremen (included under local supervision). During the year the number of foresters and foremen was increased by 41 from 168 to 209.

Table E.—Analysis of Forestry Operations.

Year ending 30th September.	Expenditure. (Table IIa. Col. (4).)								Income. (Table IIa. Col. (12).)					Net Expenditure. (15)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
	Overhead Charges.	Superior Supervision.	Local Supervision.	Acquisition of Land, etc.	Cultural Operations.	Preparation and Sale of Produce.	Roads and Buildings.	Stores and Miscellaneous.	Total.	Sales of Land, Buildings, etc.	Rents.	Forest Produce.	Other.	Total.
1920	38,454	28,227	1,236	40,393	19,611	357	1,472	2,432	334,148	300	154	9,272	153	9,879
1921			5,093	85,803	85,638	1,680	7,986	15,766			5,059	20,444	1,955	27,458
1922...	16,371	17,639	9,816	17,191	129,414	3,918	4,779	30,516	239,644	540	6,474	7,283	16,702	30,999
1923...	18,496	12,709	10,552	27,768	82,359	4,287	5,049	19,879	181,099	900	5,951	16,902	9,854	33,607
1924...	9,525	16,447	14,352	49,418	114,356	9,217	7,318	26,404	247,037	10,839	25,264	42,852	11,743	90,698
1925...	18,783	24,046	18,433	101,471	164,125	15,684	18,485	45,129	406,156	23,626	39,367	55,055	16,391	134,439
1926...	20,778	24,444	24,224	118,607	200,889	16,576	17,954	69,851	493,323	16,398	42,086	44,664	19,698	122,846
1927...	23,059	24,133	27,430	99,867	230,543	23,543	20,813	54,711	504,099	3,467	45,483	74,047	14,418	137,415
1928...	22,839	24,787	29,407	97,210	247,231	22,649	14,817	78,426	537,366	15,576	49,116	74,841	16,509	156,042
Total	168,305	172,432	140,543	637,728	1,274,166	97,911	98,673	343,114	2,932,872	71,646	218,954	345,360	107,423	743,383
														2,189,489

Note.—The figures relating to Ireland (during 1920-23) are omitted.

Acquisition of Land, Buildings and Standing Timber: Expenditure, £97,210.—During the year £79,943 was paid in respect of purchases of land, including the standing timber and buildings thereon, and £17,267 in respect of land held on long lease or feu. The latter figure is slightly less than that for the previous year, owing to surrenders of land, transfers of forest land for workers' holdings and other adjustments.

The average rent or feu duty for land acquired for forestry operations during the year by lease or feu is approximately 2s. per acre and the average price for the land purchased approximately £2 13s. per acre, or if the whole be charged against plantable land only, 2s. 10d. and £3 13s. respectively. Land and buildings for forest workers' holdings are excluded.

Land acquired from 29th November, 1919, to 30th September, 1928

—	By Lease and Feu.			By Purchase.			Total by Lease, Feu and Purchase.
	Plantable (including planted).	Other Land.	Total.	Plantable (including planted).	Other Land.	Total.	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
<i>England and Wales—</i>							
Finally completed ...	83,261	6,985	90,246	73,400	14,390	87,790	178,036
Entry secured ...	2,909	230	3,139	—	—	—	3,139
Total ...	86,170	7,215	93,385	73,400	14,390	87,790	181,175
<i>Scotland—</i>							
Finally completed ...	55,753	49,807	105,560	55,746	76,777	132,523	238,083
Entry secured ...	4,844	10,369	15,213	—	—	—	15,213
Total ...	60,597	60,176	120,773	55,746	76,777	132,523	253,296
Total, Great Britain	146,767	67,891	214,158	129,146	91,167	220,313	434,471
<i>Ireland (to 31st March, 1922)...</i>	2,287	532	2,819	2,579	795	3,374	6,193
Grand Total ...	149,054	67,923	216,977	131,725	91,962	223,687	440,664

Note.—The Forestry (Transfer of Woods) Orders 1924 to 1926 transferred to the Forestry Commissioners the bulk of the Crown Woodlands. The area so transferred, additional to the 434,471 acres above-mentioned, amounts to approximately 120,000 acres of which some 60,000 acres are carrying timber or are under forestal treatment.

The total area acquired during the forest year 1927-28 amounted to 43,953 acres, of which 32,056 acres were classified as plantable. On the other hand disposals amounted to 993 acres (981 acres plantable), including the transfer of Churt (944 acres, of which 613 acres were planted) to the War Office.

The area in Great Britain in respect of which the legal formalities of acquisition by the Department had been completed by the 30th September, 1928, was 416,119 acres, the corresponding

figures in the two previous annual reports being 331,177 and 278,807 acres. In addition to these completed acquisitions, entry has been secured to a number of other properties. Details are given in the above table, 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.

The net total area acquired in Great Britain to 30th September, 1928, is 434,471 acres, of which 275,913 acres were classified at the time of acquisition as plantable. Of the plantable area, 159,570 acres (57·8 per cent.) are situated in England and Wales and 116,343 acres (42·2 per cent.) in Scotland.

Cultural Operations: Expenditure, £247,231.—Expenditure on cultural operations relates to plantations and nurseries, of which the former absorbed £178,478 and the latter £68,753. An analysis of expenditure is given in Table E.5.

Plantations.—The total area planted or sown during the year was 23,129 acres, of which 21,496 acres were placed under conifers and 1,633 acres under broadleaved species.

The total addition to the woodland area of Great Britain was 17,257 acres, the remaining plantations being on the site of felled woodlands. In making these plantations and in beating-up the previous years' plantations 49,998,000 trees were planted, of which 45 per cent. were Scots and Corsican pines, 24 per cent. Norway and Sitka spruces, 12 per cent. European and Japanese larches and 9 per cent. Douglas fir.

Table E.5.—Analysis of Cultural Operations (Table E, Column (5)).

Year ending 30th Sept.	PLANTATIONS.								NURSERIES.				Grand Total.
	Prepara- tion of Ground.	Drain- age.	Fencing.	Plant- ing.	Weed- ing and Clean- ing.	Beating up.	Forest Pro- tection.	Total.	New Works.	Upkeep.			
										Seed.	Labour and Other.	Total.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1920	£ 3,375	843	3,279	3,561	705	—	183	11,946	1,090	1,127	5,448	7,665	£ 19,611
1921	10,781	1,794	12,550	27,310	1,830	665	2,342	57,302	3,731	5,297	19,308	28,336	85,638
1922	17,741	4,352	12,231	24,137	3,070	3,767	2,869	68,167	3,848	8,253	49,146	61,247	129,414
1923	11,550	4,065	10,577	12,622	6,423	2,135	3,385	50,757	1,050	2,739	27,813	31,602	82,359
1924	12,804	4,361	14,448	13,901	15,089	5,897	6,334	72,834	999	5,665	34,858	41,522	114,356
1925	16,920	10,515	20,311	22,615	22,620	9,526	9,152	111,659	2,955	3,173	46,338	52,466	164,125
1926	18,052	9,125	26,684	28,621	28,262	13,071	13,527	137,342	4,309	6,170	53,068	63,547	200,889
1927	19,522	12,496	36,354	35,928	34,528	9,310	17,744	165,882	3,598	7,367	53,696	64,661	230,543
1928	20,864	15,033	35,403	38,442	37,935	13,867	16,934	178,478	2,535	4,253	61,965	68,753	247,231
Total	131,609	62,584	171,837	207,137	150,492	58,238	72,470	854,367	24,115	44,044	251,640	419,799	1,274,166

Note.—The figures relating to Ireland (during 1920-23) are omitted.

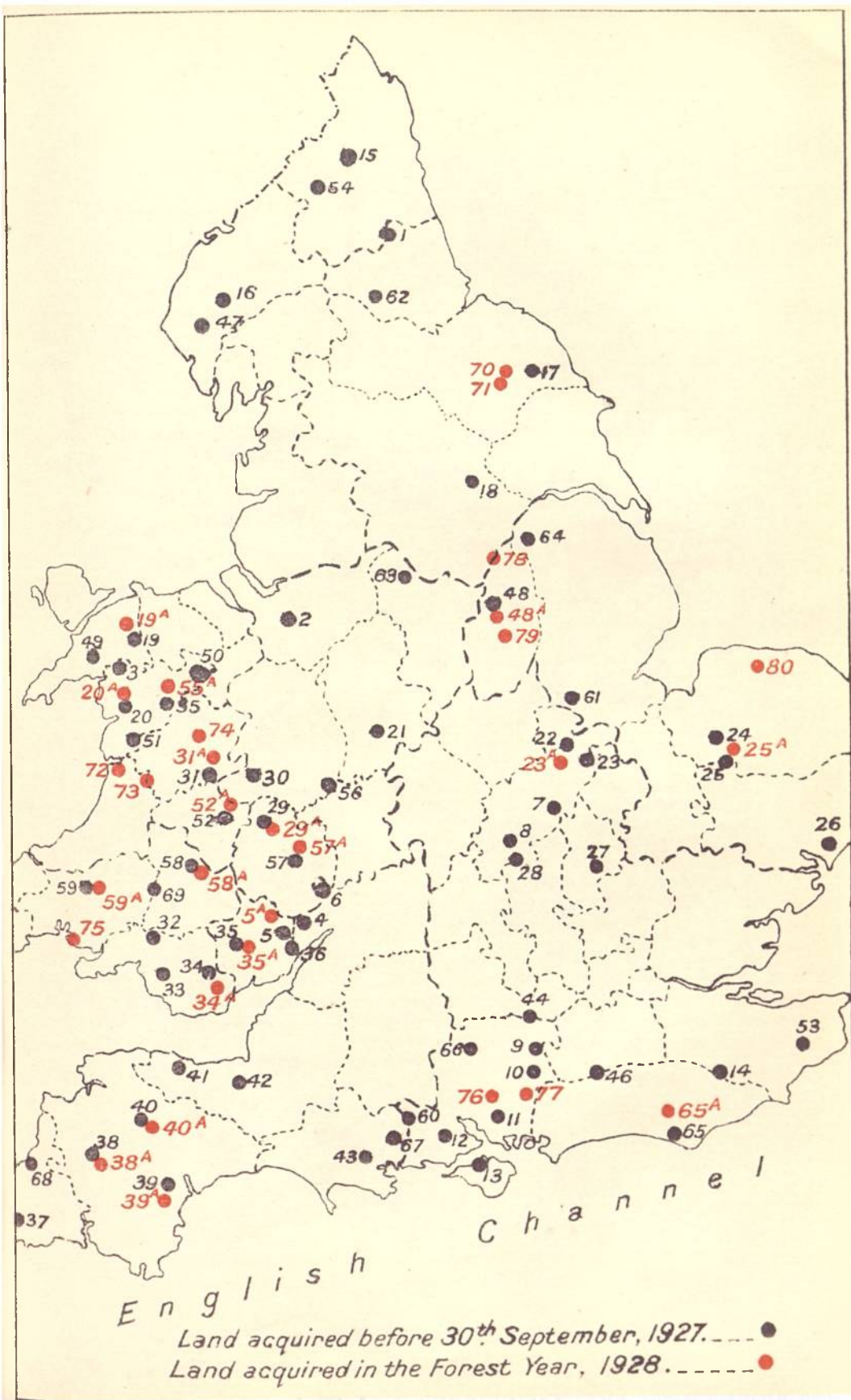
ENGLAND AND WALES.

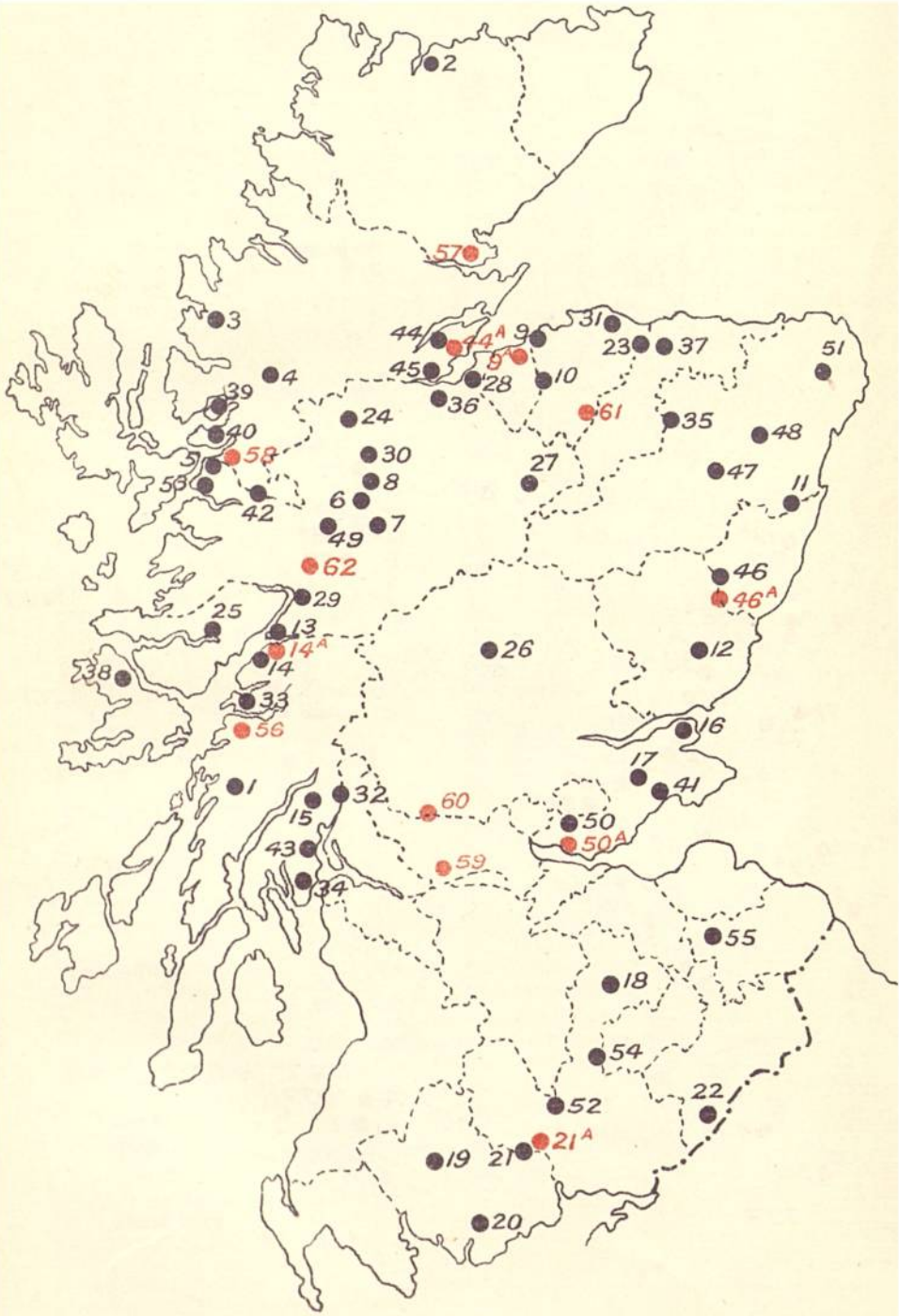
FORESTRY COMMISSION AREAS.

1. Chopwell.*	40. Eggesford.
2. Delamere.*	40A. „ (addn. to).
3. Hafod Fawr.*	41. Exmoor.
4. Dean Forest.*	42. Quantocks.
5. Tintern.*	43. Wareham.
5A. „ (addn. to).	44. Bramshill.
6. Dymock.*	45. †
7. Salcey.*	46. Chiddingfold.
8. Hazelbrough.*	47. Ennerdale.
9. Alice Holt.*	48. Clipstone.
10. Woolmer.*	48A. „ (addn. to).
11. Bere.*	49. Beddgelert.
12. New Forest.*	50. Cynwyd.
13. Parkhurst.*	51. Corris.
14. Bedgebury.*	52. Radnor.
15. Rothbury.	52A. „ (addn. to).
16. Thornthwaite.	53. Lyminge.
17. Allerston.	54. North Tyne Valley.
18. Selby.	55. Dovey.
19. Gwydyr.	55A. „ (addn. to).
19A. „ (addn. to).	56. Wyre.
20. Vaughan.	57. Haugh Wood.
20A. „ (addn. to).	57A. „ (addn. to).
21. Cannock Chase.	58. Brecon.
22. Westhay.	58A. „ (addn. to).
23. Rockingham.	59. Glangwili.
23A. „ (addn. to).	59A. „ (addn. to).
24. Swaffham.	60. Ringwood.
25. Thetford Chase.	61. Bourne.
25A. „ (addn. to).	62. Hamsterley.
26. Rendlesham.	63. Hope.
27. Ampthill.	64. Laughton.
28. Brackley Hatch.	65. Friston.
29. Mortimer.	65A. „ (addn. to).
29A. „ (addn. to).	66. Micheldever.
30. Walcot.	67. Ferndown.
31. Kerry.	68. Wilsey Down.
31A. „ (addn. to).	69. Glasfynydd.
32. Rheola.	70. Rosedale.
33. Margam.	71. Ampleforth.
34. Llantrisant.	72. Cwmceinion.
34A. „ (addn. to).	73. Tarenig.
35. Llanover.	74. Mathrafal.
35A. „ (addn. to).	75. Pembrey.
36. Chepstow.	76. Westbury.
37. Bodmin.	77. Buriton.
38. Halwill.	78. Bawtry.
38A. „ (addn. to).	79. Sherwood.
39. Haldon.	80. Swanton.
39A. „ (addn. to).	

* Former Crown Woods.

† This area (Churt) has been disposed of.





Land acquired before 30th September, 1927. ---●
 Land acquired in the Forest Year, 1928. ---●

SCOTLAND.

FORESTRY COMMISSION AREAS.

- | | |
|--------------------|--------------------|
| 1. Inverliever.* | 32. Ardgarten. |
| 2. Borgie. | 33. Barcaldine. |
| 3. Slattadale. | 34. Benmore. |
| 4. Achnashellach. | 35. The Bin. |
| 5. Ratagan. | 36. Craig Phadrig. |
| 6. Inchnacardoch. | 37. Ordiequish. |
| 7. South Laggan. | 38. Salen. |
| 8. Port Clair. | 39. North Strome. |
| 9. Culbin. | 40. South Strome. |
| 9A. „ (addn. to). | 41. Torloisk. |
| 10. Monaughty. | 42. Glenshiel. |
| 11. Kirkhill. | 43. Glenfinart. |
| 12. Montreatmont. | 44. Findon. |
| 13. Glen Righ. | 44A. „ (addn. to). |
| 14. Glenduror. | 45. Kessoek. |
| 14A. „ (addn. to). | 46. Drumtochty. |
| 15. Glenbranter. | 46A. „ (addn. to). |
| 16. Tentsmuir. | 47. Midmar. |
| 17. Edensmuir. | 48. Kemnay. |
| 18. Glentress. | 49. Glengarry. |
| 19. New Galloway. | 50. Blairadam. |
| 20. Screel Hill. | 50A. „ (addn. to). |
| 21. Dalbeattie. | 51. Deer. |
| 21A. „ (addn. to). | 52. Closeburn. |
| 22. Newcastleton. | 53. Eilanreach. |
| 23. Teindland. | 54. Greskine. |
| 24. Glenurquhart. | 55. Edgarhope. |
| 25. Glenhurich. | 56. Fearnoch. |
| 26. Drummond Hill. | 57. Dornoch. |
| 27. Glenmore. | 58. Inverinate. |
| 28. Culloden. | 59. Lennox. |
| 29. Nevis. | 60. Lochard. |
| 30. Craig-nan-Eun. | 61. Ballindalloch. |
| 31. Altonside. | 62. Clunes. |

* Former Crown Wood.

Plantations. Year ended 30th

Forest.	Area planted (acres).					
	Afforested.		Re-afforested.		Total.	
	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.
Alice Holt, Hants* ...	—	—	27	19	27	19
Allerston, Yorks ...	522	16	—	—	522	16
Ampleforth, Yorks ...	175	—	—	—	175	—
Ampthill, Bedford ...	4	—	15	11	19	11
Beddgelert, Carnarvon ...	81	—	61	—	142	—
Bedgebury, Kent and Sussex*	—	—	170	5	170	5
Bere, Hants* ...	—	—	30	—	30	—
Bodmin, Cornwall ...	5	—	60	—	65	—
Bourne, Lincoln ...	—	—	81	5	81	5
Brackley, Bucks and Northants	13	—	—	30	13	30
Bramshill, Berks and Hants	—	—	373	—	373	—
Brecon, Brecknock ...	157	—	—	4	157	4
Buriton, Hants ...	—	69	—	74	—	143
Cannock Chase, Stafford ...	203	7	4	—	207	7
Chepstow, Glos. and Mon- mouth	20	—	165	50	185	50
Chiddingfold, Surrey and Sussex	—	—	42	122	42	122
Chopwell, Durham* ...	—	—	17	—	17	—
Clipstone, Nottingham ...	332	100	96	—	428	100
Corris Valley, Merioneth ...	157	—	32	—	189	—
Cynwyd, Merioneth ...	214	—	50	—	264	—
Dean Forest, Glos., Here- ford, and Monmouth*	22	—	115	99	137	99
Delamere, Cheshire* ...	—	—	49	20	49	20
Dovey, Merioneth and Montgomery	239	—	284	—	523	—
Dymock, Gloucester ^o ...	—	—	7	10	7	10
Edgesford, Devon ...	—	—	17	—	17	—
Ennerdale, Cumberland ...	192	—	—	—	192	—
Exmoor, Somerset... ...	205	—	2	—	207	—
Ferndown, Dorset ...	—	—	150	—	150	—
Friston, Sussex ...	1	147	—	—	1	147
Glangwili, Carmarthen ...	120	—	80	—	200	—
Glasfynydd, Brecknock ...	222	—	—	—	222	—
Gwydyr, Carnarvon ...	134	—	278	—	412	—
Hafod Fawr, Merioneth*... ..	39	—	—	—	39	—
Haldon, Devon ...	232	—	—	—	232	—
Halwill, Devon ...	94	—	—	—	94	—
Håmsterley, Durham ...	142	—	69	—	211	—
Haugh, Hereford ...	33	25	—	—	33	25
Hazelborough, Northants*	—	—	—	—	—	—
Hope, Derby ...	80	—	—	—	80	—
Kerry, Montgomery ...	99	1	121	—	220	1
Laughton, Lincoln ...	239	16	—	—	239	16
Llanover, Monmouth ...	125	—	7	8	132	8
Llantrisant, Glamorgan ...	—	—	—	—	—	—
Lyminge, Kent ...	—	—	178	—	178	—
Margam, Glamorgan ...	78	—	—	—	78	—
Mathrafal, Montgomery ...	—	—	46	3	46	3

September, 1928—England and Wales.

Species planted, including beating up (thousands).									Forest.
Scots and Corsican Pines.	Eur. and Jap. Larches.	Douglas Fir.	Norway and Sitka Spruces.	Oak.	Ash.	Beech.	Others.	Total.	
17	13	22	13	93	—	8	4	170	Alice Holt.*
518	211	141	138	—	2	72	7	1,089	Allerston.
172	64	24	—	—	—	16	—	276	Ampleforth.
20	27	5	8	41	—	—	—	101	Amptill.
8	8	—	275	—	—	—	17	308	Beddgelert.
38	34	175	70	35	16	—	5	373	Bedgebury.*
—	21	1	—	41	—	9	—	72	Bere.*
10	24	39	11	—	—	18	—	102	Bodmin.
—	72	37	29	—	5	—	—	143	Bourne.
—	—	13	66	70	—	—	—	149	Brackley.
772	4	44	199	—	—	—	—	1,019	Bramshill.
4	177	1	67	—	—	6	2	257	Brecon.
—	63	—	—	—	—	254	—	317	Buriton.
315	182	—	29	—	—	18	8	552	Cannock Chase.
1	165	61	2	—	89	3	2	323	Chepstow.
—	23	41	120	209	77	3	7	480	Chiddingfold.
13	4	6	27	—	1	2	—	53	Chopwell.*
1,231	41	7	—	44	—	6	121	1,450	Clipstone.
—	64	159	22	—	—	—	—	245	Corris Valley.
58	75	38	300	—	—	—	9	480	Cynwyd.
113	135	32	98	226	19	67	56	746	Dean Forest.*
143	80	1	—	—	—	—	5	229	Delamere.*
—	150	214	446	—	—	1	3	814	Dovey.
—	9	—	—	65	—	2	—	76	Dymock.*
—	9	33	2	—	—	—	1	45	Eggesford.
14	—	—	314	—	—	8	—	336	Ennerdale.
149	65	—	154	—	—	—	—	368	Exmoor.
83	7	2	124	—	—	—	—	216	Ferndown.
59	148	3	—	—	—	160	10	380	Friston.
32	93	72	111	—	—	—	—	308	Glangwili.
—	89	—	169	—	—	—	—	258	Glasfynydd.
25	133	223	243	—	—	—	20	644	Gwydyr.
—	2	—	67	—	—	—	—	69	Hafod Fawr.*
367	—	112	31	—	—	6	—	516	Haldon.
67	15	35	203	—	—	3	—	323	Halwill.
96	51	55	185	—	—	29	6	422	Hamsterley.
—	69	5	1	41	8	—	—	124	Haugh.
—	—	—	—	—	—	2	—	2	Hazel-borough.*
56	70	—	10	—	—	—	3	139	Hope.
16	—	98	473	—	—	3	11	601	Kerry.
383	17	7	107	—	—	11	23	548	Laughton.
42	183	4	99	—	—	—	4	332	Llanover.
—	—	6	13	—	—	—	—	19	Llantrisant.
—	107	151	9	—	—	—	—	267	Lyminge.
46	43	—	134	—	—	—	—	223	Margam.
—	41	9	14	—	2	—	—	66	Mathrafal.

Plantations. Year ended 30th

Forest.	Area planted (acres).					
	Afforested.		Re-afforested.		Total.	
	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.
Micheldever, Hants ...	—	181	11	96	11	277
Mortimer, Hereford, Radnor and Salop	338	8	4	—	342	8
New Forest, Hants* ...	—	—	363	78	363	78
North Tyne Valley, Northumberland.	113	—	—	—	113	—
Parkhurst, Isle of Wight*	—	—	46	11	46	11
Quantocks, Somerset ...	—	—	122	—	122	—
Radnor, Radnor ...	400	—	—	—	400	—
Rendlesham, Suffolk ...	470	11	18	—	488	11
Rheola, Glamorgan ...	—	—	135	—	135	—
Ringwood, Hants ...	326	—	10	—	336	—
Rockingham, Northants ...	34	45	9	123	43	168
Rosedale, Yorks ...	278	—	—	—	278	—
Rothbury, Northumberland	—	—	15	—	15	—
Salcey, Bucks and Northants*	—	—	—	—	—	—
Selby, Yorks ...	—	—	—	—	—	—
Swaffham, Norfolk ...	605	5	—	—	605	5
Thetford Chase, Norfolk and Suffolk	3,004	152	172	—	3,176	152
Thornthwaite, Cumberland	71	—	207	—	278	—
Tintern, Monmouth* ...	—	—	54	—	54	—
Vaughan, Merioneth ...	202	—	20	—	222	—
Walcot, Salop ...	110	3	—	—	110	3
Wareham, Dorset ...	287	—	10	—	297	—
Wilsey Down, Cornwall ...	41	—	—	—	41	—
Wyre, Worcester ...	216	2	—	—	216	2
Total ...	10,674	788	3,822	768	14,496	1,556
By direct sowing (included above)	327	100	—	30	327	130

* Former Crown Woods.

Plantations. Year ended

Forest.	Area planted (acres).					
	Afforested.		Re-afforested.		Total.	
	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.
Achnashellach, Ross ...	50	—	12	—	62	—
Ardgarten, Argyll ...	160	—	—	—	160	—
Barcaldine, Argyll ...	190	4	—	—	190	4
Benmore, Argyll ...	205	—	18	—	223	—
Bennan, Kirkcudbright ...	115	—	—	—	115	—
Bin (The), Aberdeen ...	368	—	—	—	368	—
Blairadam, Fife and Kinross	53	—	28	—	81	—
Borgie, Sutherland ...	44	—	—	—	44	—
Closeburn, Dumfries ...	148	—	—	—	148	—
Craig-nan-Eun, Inverness ...	191	—	—	—	191	—
Craig Phadrig, Inverness ...	1	—	41	—	42	—

September, 1928—England and Wales—contd.

Species planted, including beating up (thousands).									Forest.
Scots and Corsican Pines.	Eur. and Jap. Larches.	Douglas Fir.	Norway and Sitka Spruces.	Oak.	Ash.	Beech.	Others.	Total.	
—	196	—	—	340	—	197	—	733	Micheldever.
31	492	105	20	—	12	2	—	662	Mortimer.
258	217	119	137	130	—	133	27	1,021	New Forest.*
68	42	—	185	—	—	—	3	298	North Tyne Valley.
16	3	57	39	14	8	15	—	152	Parkhurst.*
3	70	110	19	—	—	2	3	207	Quantocks.
23	166	190	284	—	—	9	8	680	Radnor.
1,456	—	4	—	3	—	4	6	1,473	Rendlesham.
70	118	22	126	—	—	2	—	338	Rheola.
208	—	51	2	—	—	—	1	262	Ringwood.
—	80	46	104	168	43	—	22	463	Rockingham.
446	—	53	37	2	—	—	1	539	Rosedale.
50	4	53	41	—	—	—	—	148	Rothbury.
—	—	—	—	5	—	—	16	21	Salcey.*
25	1	—	5	—	—	—	13	44	Selby.
2,030	215	244	—	14	—	28	7	2,538	Swaffham.
7,493	130	110	—	243	—	413	52	8,441	Thetford Chase.
50	79	155	219	—	4	27	9	543	Thorntwaite.
23	63	47	8	17	22	8	1	189	Tintern.*
32	98	94	204	—	—	—	1	429	Vaughan.
27	107	56	11	—	6	—	3	210	Walcot.
221	45	53	4	—	—	—	3	326	Wareham.
—	28	—	28	—	—	—	—	56	Wilsey Down.
37	222	61	4	—	6	3	—	333	Wyre.
17,435	5,164	3,506	5,860	1,801	320	1,550	500	36,136	Total.

30th September, 1928—Scotland.

Species planted, including beating up (thousands).									Forest.
Scots and Corsican Pines.	Eur. and Jap. Larches.	Douglas Fir.	Norway and Sitka Spruces.	Oak.	Ash.	Beech.	Others.	Total.	
50	30	4	86	—	—	2	4	176	Achnashellach.
10	34	—	197	—	—	—	26	267	Ardgarten.
16	21	4	270	—	—	4	62	377	Barcaldine.
80	55	23	216	—	—	—	15	389	Benmore.
7	30	—	220	—	—	1	1	259	Bennan.
192	144	12	377	—	—	9	—	734	Bin (The).
30	—	—	98	3	4	4	15	154	Blairadam.
41	—	—	108	—	—	3	11	163	Borgie.
6	43	4	186	—	—	—	—	239	Closeburn.
93	—	126	89	—	—	—	—	308	Craig-nan-Eun.
52	2	13	—	—	—	4	17	88	Craig Phadrig.

Plantations. Year ended

Forest.	Area planted (acres).					
	Afforested.		Re-afforested.		Total.	
	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.	Coni- fers.	Broad- leaved.
Culbin, Elgin	318	—	—	—	318	—
Culloden, Inverness	—	—	98	—	98	—
Dalbeattie, Kirkcudbright... ..	30	—	127	—	157	—
Deer, Aberdeen	185	20	—	—	185	20
Dornoch, Sutherland	—	—	125	—	125	—
Drummond Hill, Perth	—	—	154	4	154	4
Drumtochty, Kincardine	155	2	—	—	155	2
Edensmuir, Fife	11	1	93	1	104	2
Edgarhope, Midlothian	—	—	57	—	57	—
Eilanreach, Inverness	128	—	—	—	128	—
Findon, Ross	—	—	141	—	141	—
Glenbranter, Argyll	144	—	—	—	144	—
Glenduror, Argyll	204	1	—	—	204	1
Glenfinart, Argyll	175	—	—	—	175	—
Glengarry, Inverness	108	—	—	—	108	—
Glenhurich, Argyll	261	—	—	—	261	—
Glenmore, Inverness	248	4	—	—	248	4
Glen Righ, Inverness	89	—	—	—	89	—
Glenshiel, Ross	2	—	—	—	2	—
Glentress, Peebles	—	—	36	—	36	—
Glenurquhart, Inverness	181	—	—	—	181	—
Greskine, Dumfries	48	2	—	—	48	2
Inchnacardoch, Inverness	138	—	—	—	138	—
Inverinate, Ross	34	—	97	—	131	—
Inverliever, Argyll*	123	—	—	—	123	—
Kemnay, Aberdeen... ..	106	4	—	—	106	4
Kessock, Ross	—	—	88	—	88	—
Kirkhill, Aberdeen... ..	36	1	—	—	36	1
Midmar, Aberdeen	118	3	—	—	118	3
Monaghty, Elgin	181	5	—	—	181	5
Montreathmont, Forfar	122	5	—	—	122	5
Nevis, Inverness	116	—	—	—	116	—
Newcastleton, Roxburgh	127	—	—	—	127	—
North Strome, Ross	73	—	—	—	73	—
Ordiequish, Elgin	32	1	—	—	32	1
Port Clair, Inverness	—	—	157	—	157	—
Ratagan, Inverness and Ross	69	—	—	—	69	—
Salen, Argyll	84	—	—	—	84	—
Slattadale, Ross	45	—	5	—	50	—
South Laggan, Inverness	20	—	—	—	20	—
South Strome, Ross	82	—	—	—	82	—
Teindland, Elgin	103	—	—	—	103	—
Tentsmuir, Fife	302	19	—	—	302	19
Total	5,723	72	1,277	5	7,000	77
By direct sowing (included above).	—	—	—	—	—	—

* Former Crown Wood.

Plantations. Year ended

England and Wales	10,674	788	3,822	768	14,496	1,556
Scotland	5,723	72	1,277	5	7,000	77
Total	16,397	860	5,099	773	21,496	1,633

30th September, 1928—Scotland—contd.

Species planted, including beating up (thousands).									Forest.
Scots and Corsican Pines.	Eur. and Jap. Larches.	Douglas Fir.	Norway and Sitka Spruces.	Oak.	Ash.	Beech.	Others.	Total.	
649	—	—	—	—	—	—	11	660	Culbin.
153	1	39	22	—	—	5	5	225	Culloden.
85	85	12	168	—	—	1	1	352	Dalbeattie.
80	—	—	290	—	—	19	9	398	Deer.
233	—	5	9	—	—	3	9	259	Dornoch.
149	91	8	20	—	—	4	—	272	Drummond Hill
22	64	17	126	—	—	4	28	261	Drumtochty.
85	—	—	147	—	—	5	—	237	Edensmuir.
—	—	—	86	—	—	—	—	86	Edgarhope.
—	24	24	103	—	—	—	—	151	Eilanreach.
215	—	12	33	—	—	2	4	266	Findon.
33	12	—	262	—	—	—	54	361	Glenbranter.
6	—	37	284	—	—	2	39	368	Glenduror.
60	22	26	145	—	—	2	11	266	Glenfinart.
—	—	—	138	—	—	—	5	143	Glegarry.
—	—	10	378	—	—	—	19	407	Glenhurich.
328	2	10	162	—	—	5	—	507	Glenmore.
1	—	23	184	—	—	—	6	214	Glen Righ.
—	—	—	11	—	—	—	—	11	Glenshiel.
67	15	8	48	—	—	—	3	141	Glenstress.
22	5	133	94	—	—	6	2	262	Glenurquhart.
6	—	10	76	—	—	—	4	96	Greskine.
176	15	13	83	—	—	—	3	290	Inchnacardoch.
48	46	30	91	—	—	—	5	220	Inverinate.
11	—	10	248	—	—	—	39	308	Inverliever.*
121	43	7	36	—	—	5	—	212	Kemnay.
103	1	50	—	—	—	2	7	163	Kessock.
46	9	11	14	—	—	1	—	81	Kirkhill.
65	—	16	121	—	—	4	—	206	Midmar.
305	53	71	15	—	—	6	12	462	Monaughty.
257	—	7	27	—	—	6	—	297	Montreathmont.
—	24	17	134	—	—	—	5	180	Nevis.
—	—	—	310	—	—	—	1	311	Newcastleton.
15	—	32	59	—	—	—	—	106	North Strome.
56	1	1	7	—	—	1	4	70	Ordiequish.
10	—	76	156	—	—	—	11	253	Port Clair.
20	23	1	63	—	—	1	6	114	Ratagan.
26	18	—	135	—	—	—	8	187	Salen.
46	32	23	50	—	—	—	9	160	Slattadale.
—	9	—	42	—	—	—	—	51	South Laggan.
29	1	7	87	—	—	—	8	132	South Strome.
274	—	2	16	—	—	—	8	300	Teindland.
610	—	—	12	—	—	14	26	662	Tentsmuir.
4,989	955	934	6,339	3	4	125	513	13,862	Total.

30th September, 1928—Summary.

17,435	5,164	3,506	5,860	1,801	320	1,550	500	36,136	England & Wales
4,989	955	934	6,339	3	4	125	513	13,862	Scotland.
22,424	6,119	4,440	12,199	1,804	324	1,675	1,013	49,998	Total.

Cost of Planting.—The outlay per acre on labour and material on the area planted between 1919 and 1928 was as follows :—

	£	s.	d.
England and Wales	8	9	9
Scotland	9	14	10
Great Britain	8	17	0

These figures include the cost of preparation of ground, drainage, fencing, plants, planting, replacement of failures and weeding.

Forest Fires.—During the year 120 fires occurred, affecting 545 acres. The damage done was estimated at £2,874, the amount recoverable being £120. Of the total number of fires, 57 were caused by sparks from railway engines.

Nurseries.—The total area under nurseries at 30th September, 1928, was 839 acres stocked with 177 million seedlings and 118 million transplants. Comparative figures for the three years 1926-28 are given in the following table :—

Nurseries.

Year ending 30th September.	Country.	Seed Sown (lbs.).			Stock of Plants at 30th September (thousands).						Area (Acres).
					Transplants.			Seedlings.			
		Coniferous.	Broad-leaved.	Total.	Coniferous.	Broad-leaved.	Total.	Coniferous.	Broad-leaved.	Total.	
1928...	England and Wales.	5,821	48,238	54,059	77,285	5,217	82,502	109,648	4,640	114,288	665
	Scotland ...	2,072	107	2,179	34,755	1,048	35,803	62,000	318	62,318	274
	Total ...	7,893	48,345	56,238	112,040	6,265	118,305	171,648	4,958	176,606	839
1927...	England and Wales.	8,412	52,470	60,882	68,182	3,157	71,339	141,883	6,394	148,277	495
	Scotland ...	2,397	1,413	3,810	43,183	874	44,057	64,024	776	64,800	235
	Total ...	10,809	53,883	64,692	111,365	4,031	115,396	205,907	7,170	213,077	730
1926...	England and Wales.	7,829	18,797	26,626	55,842	3,285	59,127	129,132	3,455	132,587	468
	Scotland ...	1,767	297	2,064	43,945	866	44,811	86,848	737	87,585	260
	Total ...	9,596	19,094	28,690	99,787	4,151	103,938	215,980	4,192	220,172	728

Seed Supply.—The Canadian Government was unable to supply Douglas fir seed of the 1927 (autumn) crop and only a small quantity, of somewhat low germinative capacity, was obtainable from the United States of America. The Sitka spruce crop was reported to be exceptionally good in Canada but only fair in the United States of America.

European larch, Norway spruce and Corsican pine yielded good crops but that of Japanese larch was reported to be poor both in quantity and quality.

As regards home-collected seed, in England and Wales oak and ash gave good crops, but owing to the wet summer of 1927 very little chestnut seed was obtainable; beech was a total failure; the Scots pine crop was poor but enough seed was obtained to meet the Commission's requirements. In Scotland, Scots pine cones were sufficiently plentiful to enable a quantity of seed to be stored for use in the following year; European larch was not available in any great quantities but sufficient seed was obtained to meet requirements.

The quantity of seed sold during the year amounted to 2,859 lbs.

The Commissioners have to express their gratitude for gifts of seed from the forest authorities of Canada, Finland, France, Latvia, New Zealand, Spain, Sweden and the United States of America.

**Sub-head F.—Advances for Afforestation Purposes:
Expenditure, £13,522.**

Of the total expenditure, £2,908 was in respect of overhead and supervisory charges and £1,258 was in respect of a proceeds-sharing scheme. The remainder, viz., £9,356, was in respect of grants to private individuals and local authorities for planting and scrub clearing. The grants were as follows:—

(1) *Conifers*.—Up to £2 per acre for every 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) for every acre cleared. Limited to selected schemes involving not less than 50 acres.

Particulars of the schemes in respect of which grants were paid during the year are given in the Table below:—

—	England and Wales.	Scotland.	Total.
No. of Schemes	170	115	285
	Acres.	Acres.	Acres.
Planting Conifers... ..	2,105	2,682	4,787
Planting Hardwoods	633	92	725
Scrub clearing	45	152	197

**Sub-head G.—Education: Expenditure: Gross, £9,437;
Net, £9,428.**

Details of expenditure and income are given in Table G below:—

Table G.—Analysis of Education.

Year ending 30th September.	Expenditure (Table IIa, Col. (6)).							Income (Table IIa, Col. (13)).			Net Expenditure.					
	Superior Supervision and Over-head Charges.	Apprentices' Schools.					Grants to Institutions.	Total.	Labour of Apprentices.	Other.		Total.				
		Salaries and Expenses of Instructors.	Purchases and Rent of Land and Buildings.	Allowances to Apprentices.	Stores and Equipment.	Fuel and Light and Sundry Expenses.										
	£	£	£	£	£	£	£	£	£	£	£					
1920 ...	} 3,432	1,343	2,033	1,417	425	605	—	} 21,544	—	103	} 199	21,345				
1921 ...		3,498	2,479	2,468	982	1,625	1,242		—	96						
1922 ...		1,092	2,793	127	3,157	411	2,513		2,264	12,357			1,396	1,396	10,961	
1923 ...		1,617	1,614	311	4,202	163	1,287		2,598	11,792			1,258	252	1,510	10,282
1924 ...		983	1,447	421	1,440	56	843		3,053	8,243			282	42	324	7,919
1925 ...		1,245	1,150	166	1,718	127	804		4,743	9,953			33	435	468	9,485
1926 ...		1,357	1,138	235	2,359	267	1,013		4,239	10,608			12	17	29	10,579
1927 ...		1,235	769	185	2,067	133	989		4,135	9,513			39	68	107	9,406
1928 ...	1,016	803	109	2,303	58	913	4,235	9,437	—	9	9	9,428				
Total	11,977	14,550	6,066	21,131	2,622	10,592	26,509	93,447	1,624	2,418	4,042	89,455				

The figures relating to Ireland (during 1920–23) are omitted.

Apprentices' Schools: Expenditure, £4,186.—During the year 54 forest apprentices were undergoing courses of instruction in the schools at Parkend (Forest of Dean) and at Beaufort (Inverness-shire). At the final qualifying examination 28 men who had successfully completed the two years' course were granted certificates of proficiency.

Grants to Universities and Colleges: Expenditure, £4,235.—The following Universities and Colleges received grants during the year:—Oxford University, Cambridge University; University College of North Wales, Bangor; The Armstrong College, Newcastle-on-Tyne; Aberdeen University; Edinburgh and East of Scotland College of Agriculture.

These centres provide courses of training for forest officers and also forestry courses for those engaged on allied occupations such as estate management and agriculture. The number of students who were studying forestry during the period under review was 141. The number of forestry degrees granted was 22, and 6 candidates were successful in gaining forestry diplomas.

Imperial Forestry Institute: Expenditure, £2,000.—The Imperial Forestry Institute which is financed from the Forestry Fund to the extent of £2,000 per annum for a period of five

years from October, 1924, was attended for the whole or part of the Academic year 1927-28 by 29 students. These included post-graduate probationers, Great Britain 1, South Africa 3, Colonial Services 9; Forest Officers on leave, India 2, Colonial Services 12; private students 2.

Sub-head H.—Research and Experiment: Expenditure:
Gross, £10,786; Net, £10,693.

Details of expenditure are stated in Table H below:—

Table H.—Analysis of Research and Experiment.

Year ending 30th Sept.	Expenditure (Table IIa, Column (7)).						Income (Table IIa, Col. (15)).	Net Expenditure.
	Superior Super- vision and Overhead Charges.	Salaries and Ex- penses.	Instru- ments, Stores, etc.	Labour, Seed and Sundry Expenses.	Grants to Insti- tutions.	Total.		
	£	£	£	£	£	£	£	£
1920 ...	} 3,380 {	4,078	30	137	—	} 15,472 {	—	15,472
1921 ...		5,983	169	945	750		567	6,079
1922 ...	556	4,463	75	983	569	6,646	10	5,115
1923 ...	625	2,981	168	843	508	5,125	9	7,130
1924 ...	1,789	2,981	94	1,009	1,266	7,139	43	6,368
1925 ...	1,669	3,030	93	1,019	600	6,411	110	7,322
1926 ...	1,487	3,336	68	1,878	663	7,432	93	8,249
1927 ...	1,381	3,492	233	2,479	757	8,342	93	10,693
1928 ...	1,601	3,682	176	4,582	745	10,786		
Total	12,488	34,026	1,106	13,875	5,858	67,353	925	66,428

Production.—During the course of the year 9 new sample plots were established in England and Wales and 14 were remeasured. The corresponding figures for Scotland were nil and 8. Three sample plots were abandoned owing to wind throw and other causes leaving the position at September 30th, 1928, as follows:—England and Wales 91 plots, Scotland 71 plots. Out of the total of 162 plots, 41 had been measured once, 100 twice and 21 three times or more. In addition to the above work, a considerable amount of time was spent on investigating the growth of various tree species planted in contiguous plots at Abbotswood in the Forest of Dean and at Cockle Park in Northumberland. A felled plot of Norway spruce was also measured at Blairadam, Perthshire, the work providing valuable data as to the accuracy of different methods of measuring sample plots.

Nursery and Plantation.—Investigations on the nursery treatment of coniferous seed continued on the lines indicated in the previous report with the addition of manuring experiments and studies of races of Douglas fir. Work on the influence of origin

and type of acorn on the resulting seedling stock was continued and various manurial treatments were studied.

The plantation side of the work was considerably extended during the year. Areas of difficult ground were taken over at Allerston in England, and at Achnashellach, South Laggan and Glen Righ in Scotland, and new experiments laid down in these as well as in the existing centres. Some of the earlier experiments are now giving preliminary results which are being actively followed up. Ploughing experiments on poor heather clad soils have been carried out in several centres with promising results. A heavy plough specially constructed for use on rough hill ground was thoroughly tested and found satisfactory. Further progress has been made with the peat investigations, both experimentally and through the examination of existing plantations. In particular, the effect of basic slag applied to plants growing on peat has been studied. Experimental work in connection with the raising of oak was continued.

Entomological and Mycological.—A detailed investigation on the pine shoot moth (*Tortrix buoliana*) was begun in the Eastern Counties. Apart from a study of the biology of the insect it is hoped to obtain more definite information than is at present available as to its significance as a forest pest. An outbreak in Radnor Forest of another species of Tortrix, *T. viburniana*, has also been investigated. Some preliminary experiments on the spraying of Douglas fir against *Chermes cooleyi* were carried out in a young plantation in the Forest of Dean.

The principal work under the head of mycology has been the investigation of the outbreak of Dutch elm disease in England. A survey carried out during the summer showed that the disease was widely distributed throughout the midland and southern counties of England. Elm trees of all ages were found to be attacked, the disease causing either partial or total defoliation. A large amount of culture work in connection with the disease was carried out by Dr. Malcolm Wilson and Miss Mary Wilson at Edinburgh. During the early stages of the enquiry an attempt was made to stamp out the disease by securing the destruction of infected trees, but this had to be abandoned as impracticable when the general distribution of the disease became apparent.

At Oxford a study of the fungi causing decay in the heartwood of oak is in progress.

Botanical.—The research work at Aberdeen was continued. Several of the fungi producing mycorrhiza on coniferous trees have been identified and their relation to the tree host studied. Further progress has been made with the ecological investigation of certain peat soils in Scotland.

Utilisation.—The Commissioners have continued to collaborate with the Forest Products Research Board both directly in connection with investigations on the commercial utilisation of timber and by the supply of timber for seasoning and other tests.

Sub-head J.—Agency and Advisory Services: Expenditure:
Gross, £1,661; Net, £1,597.

No direct expenditure was incurred under this head, the item £1,661 representing the time of various officers of the Commission, who have been engaged in answering enquiries and advising owners of woodlands as to the treatment of their woods.

Sub-head K.—Special Services: Expenditure: Gross, 5,807;
Net, £5,788.

Table K.—Analysis of Special Services.

Year ending 30th September.	Expenditure (Table IIa, Col. (9)).						Income (Table IIa, Col. (18)).	Net Expen- diture.
	Superior Supervision and Overhead Charges.	Consulta- tive Com- mittees' Expenses.	Publi- cations.	Special Inquir- ies.	Relief of Un- employ- ment.	Total.		
	£	£	£	£	£	£	£	£
1920	} 3,766	{ 37	319	218	—	} 5,401	—	5,401
1921			659	291	—			
1922	2,188	92	479	576	10,160	13,495	252	13,243
1923	1,372	65	122	669	4,599	6,827	12	6,815
1924	3,268	44	55	1,817	5,069	10,253	14	10,239
1925	3,240	50	78	4,824	—	8,192	36	8,156
1926	3,042	32	74	1,251	—	4,399	—	4,399
1927	2,750	13	43	355	—	3,161	—	3,161
1928	4,552	33	45	1,177	—	5,807	19	5,788
Total	24,178	477	1,874	11,178	19,828	57,535	333	57,202

The figures relating to Ireland (during 1920-23) are omitted.

Publications.—During the year under review the Commissioners issued the following publications:—

Bulletin No. 9.—*Beetles Injurious to Timber.*

Bulletin No. 10.—*Growth and Yield of Conifers in Great Britain.*

Bulletin No. 11.—*Nursery Investigations.*

Leaflet No. 17.—*Chafer Beetles.*

Leaflet No. 18.—*Douglas Fir Leaf-cast Disease.*

Report on Census of Woodlands and Census of Production of Home-grown Timber, 1924.

Eighth Annual Report of the Forestry Commissioners, being the report for the year ending 30th September, 1927.

In addition a Statement on Forestry in Great Britain (progress report) and several papers on technical subjects were printed for the British Empire Forestry Conference, Australia and New Zealand, 1928.

Exhibits at Agricultural Shows.—Forestry exhibits were sent by the Commissioners to the shows of the Royal Agricultural Society at Nottingham, the Bath and West Society at Dorchester, the Royal Welsh Agricultural Society at Wrexham, the Tunbridge Wells and South Eastern Counties Agricultural Society at Tunbridge Wells, the Sussex County Agricultural Society at Horsham, and the Highland and Agricultural Society at Aberdeen.

British Empire Forestry Conference, 1928.—The third British Empire Forestry Conference was held in Australia and New Zealand during the latter part of August, September and October of 1928.

Great Britain was represented by Lord Clinton, who presided over the Conference, Messrs. R. L. Robinson, Vice-Chairman, H. A. Pritchard, Assistant Commissioner for England and Wales, Sir William Furse, Imperial Institute, Professor R. S. Troup, Imperial Forestry Institute, Major F. M. Oliphant, Forest Products Research Laboratory and Mr. J. Richardson, representing the timber trade.

Consultative Committees.—The English Consultative Committee held three meetings during the year, the Welsh Committee met twice and the Scottish Committee once. The Chairman of the Commission and other Commissioners and officers attended some of the meetings. The English Committee visited the New Forest and the Welsh Committee inspected Glangwili Forest area.

Formal references were submitted by the Commissioners to the Committees for their advice and assistance on the following matters :—

- (1) The revised rates per acre for hardwood planting grants.
- (2) Private woodland owners posting the Commission's notice warning against fires, &c.

The Committees' views on the following matters dealt with in the 7th Annual Report of the Department were submitted :—

- (a) The method adopted in connection with the establishment of forest workers' holdings.
- (b) The Census of woodlands, 1924.
- (c) Forest policy.

The Census of home-grown timber production was considered by the English Committee.

The Commissioners regret to have to report the deaths during the year of The Lord Kenyon, Chairman of the Welsh Com-

mittee, Major-General A. E. Sandbach, Vice-Chairman of the same Committee, and Lieut.-Colonel Sir G. C. H. Wheler, Bart., a member of the English Committee.

Mr. Leslie S. Wood was appointed Chairman of the English Committee in the place of Colonel Sir George Courthope, Bart., M.C., M.P., who resigned from the Committee when he was appointed a Forestry Commissioner. Colonel B. J. Petre was appointed Vice-Chairman in the place of Mr. Leslie Wood.

Lieut.-Colonel Sir Francis D. W. Drummond, K.B.E., D.L., was appointed Chairman of the Welsh Committee in the place of The Lord Kenyon, deceased. Major-General A. E. Sandbach was appointed Vice-Chairman in the place of Lieut.-Colonel Sir Francis Drummond, and The Earl of Powis, D.L., J.P., was appointed Vice-Chairman on the death of Major-General Sandbach.

During the year Mr. J. M. Naylor resigned from the Welsh Committee, while Sir Douglas Newton, K.B.E., M.P., was appointed a member of the English Committee and Professor A. W. Borthwick, D.Sc., was appointed a member of the Scottish Committee.

**Sub-head L.—Forest Workers' Holdings: Expenditure, £95,976.
Income, £8,216.**

Details of expenditure and income are given in Table L below. The main items of expenditure are acquisition of land and buildings by purchase, £30,794, and erection of new buildings, £41,188. On the income side rents amount to £7,716.

Table L.—Analysis of Forest Workers' Holdings.

Year ending 30th September.	Expenditure (Table IIa, Col. (10)).										Income (Table IIa, Col. (16)).			Net Expenditure.
	Superior supervision and overhead charges.	Acquisition of land, buildings, etc., by purchase.	Buildings.			Fencing, Drainage, etc.	Rents and Fen Duties.	Rates and Taxes, etc.	Other.	Total.	Rents.	Other.	Total.	
			Now.	Adaptation, etc., of existing Buildings.	Repairs and Renewals.									
1924	£ 826	£ 1,000	—	£ 75	—	—	—	—	—	£ 5,901	—	£ 8	£ 8	£ 5,893
1925	3,684	27,173	16,069	7,415	23	620	183	17	1,354	56,538	876	381	1,257	55,281
1926	5,855	23,028	37,519	7,130	441	2,136	325	224	—338	75,820	3,266	108	3,374	72,446
1927	8,253	8,727	54,632	4,959	744	3,942	331	360	608	82,556	5,889	185	6,074	76,482
1928	8,875	30,794	41,188	7,480	1,167	4,571	600	642	659	95,976	7,716	500	8,216	87,760
Total	26,993	94,722	149,408	27,059	2,375	11,269	1,489	1,243	2,283	316,791	17,747	1,182	18,929	297,862

During the year further progress was made with the formation of forest workers' holdings, as shown below :—

Progress in Formation of Holdings.

	At 30th Sept. 1927.	At 30th Sept. 1928.
Completed	357	490
In course of formation	219	282

Particulars of costs and rentals of the 490 completed holdings are as follows :—

Equipped with new buildings.

231 holdings. Average cost of buildings £631 ; of land £66 ; total £697. Average rental £14 ls. per annum.

Equipped with reconditioned buildings.

259 holdings. Average cost of buildings £244 ; of land £99 ; total £343. Average rental £17 6s. per annum.

Average for holdings of both kinds.

490 holdings. Cost of buildings £427 ; of land £83 ; total £510. Rental £15 16s. per annum.

Sub-head Z.—Income, £164,443.

The sources of income are given in Table IIa (page 10). Details of income from forestry operations which shows an increase of £18,627 as compared with 1927, are given below :—

—	Commission's Forests.	Transferred Crown Properties.	Total from Forestry Operations.
	£	£	£
Land and buildings	7,048	8,528	15,576
Rents (including mining rents and royalties).	19,350	29,766	49,116
Forest produce	23,158	51,683	74,841
Other sales (including stores, live stock, rabbits, gravel, etc.).	10,394	6,115	16,509
	59,950	96,092	156,042

Under land and buildings, £13,675 is in respect of property acquired for the purposes of forestry operations but transferred for forest workers' holdings ; rents and royalties include £16,776 from the Forest of Dean Mines ; forest produce includes £68,007 from the sale of timber and £6,834 for nursery stock and seed ; other sales include livestock £5,626, and sand and gravel in New Forest, £3,829.

Employment in the Commission's Forests.

The number of persons (excluding Divisional and District Officers and office staffs) employed in the Commission's forests is stated in the table below :—

	Numbers Employed.	
	Summer (Minimum).	Winter (Maximum).
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

Note.—450 employees were transferred to the Commission with the Crown Woods on 1st April, 1924.

Training Camps.

In connection with the Ministry of Labour's schemes for training men for overseas settlement the Commissioners have provided camp sites and employment in a number of forests. New camps have been established at Fermyn Woods (Northants), Bourne (Lincolnshire), Shobdon (Herefordshire) and at Swanton, West Tofts, High Lodge and Cranwich (Norfolk), while additional facilities were provided for the existing training centre at Brandon (Norfolk). Each of the new camps accommodates approximately 200 men who have been given forest work such as scrub clearing and burning, erection of fences and land drainage. Additional land has also been provided for working Colonial type agricultural implements and for handling stock.

(Signed) CLINTON (*Chairman*).
 R. L. ROBINSON (*Vice-Chairman*).
 F. D. ACLAND.
 G. L. COURTHOPE.
 HUGH MURRAY.
 C. W. M. PRICE.
 W. R. SMITH.
 W. STEUART-FOTHERINGHAM.
 J. STIRLING-MAXWELL.

A. G. HERBERT,

Secretary.

22, Grosvenor Gardens,
 London, S.W.

APPENDIX.**Imports of Timber, Wood Manufactures and Pulp of Wood.**

Statistics relating to these imports are given in the appended table, the figures in all cases being for the year ended 31st December.

Imports of timber in 1928 amounted to 9,321,000 loads valued at £42,566,000, a decrease of 1,658,000 loads (15·1 per cent.) and £7,099,000 (14·3 per cent.) as compared with 1927. The decrease was principally accounted for by a fall of 1,420,000 loads in sawn softwoods, and 267,000 loads in pitprops.

The total value of imports of wood manufactures amounted to £8,426,000, a rise of £1,111,000 (15·2 per cent.) as compared with 1927, notwithstanding a decline of £484,000 in builders' woodwork.

Imports of pulp of wood amounted to 1,283,000 tons valued at £8,472,000 a decrease of 148,000 tons (10·3 per cent.) and £2,516,000 (22·9 per cent.).

Imports of Timber, Wood Manufactures and Pulp of Wood.

Description.	Quantities (thousands).				Value (thousands).			
	Average 1909-13.	Average 1914-18.	1927.	1928.	Average 1909-13.	Average 1914-18.	1927.	1928.
	TIMBER.							
Hewn-Hard—	Loads.	Loads.	Loads.	Loads.	£	£	£	£
Mahogany	—	—	46	49	—	—	596	599
Walnut	—	—	2	—	—	—	24	—
Oak... ..	—	—	22	—	—	—	199	—
Teak... ..	—	—	1	—	—	—	36	—
Other sorts	—	—	54	—	—	—	449	—
Hewn-Soft (Fir, pine, spruce, etc.).	542	129	319	387	1,353	583	1,237	1,381
Sawn-Hard—								
Mahogany	—	—	34	30	—	—	609	547
Walnut	—	—	8	—	—	—	206	—
Oak	—	—	233	—	—	—	2,810	—
Teak	—	—	37	—	—	—	951	—
Other sorts	—	—	285	—	—	—	2,887	—
Sawn-Soft—								
Deal and Planks ...	—	—	3,640	—	—	—	17,035	—
Boards	—	—	1,518	—	—	—	7,282	—
Other sorts	—	—	868	—	—	—	3,922	—
Planed or Dressed—								
Floorings	—	—	463	—	—	—	2,668	—
Matchings	—	—	77	—	—	—	465	—
Other sorts	—	—	149	—	—	—	905	—
Other Descriptions—								
Pitprops	2,944	1,673	2,864	2,597	3,510	4,425	5,458	4,773
Staves	161	71	104	102	795	648	740	681
Sleepers	—	130	248	261	—	602	963	1,174
Veneers and panel wood.	—	—	4	4	—	—	206	286
Not elsewhere speci- fied.	6,557*	3,550*	3	—	21,903*	24,362*	17	—
Total unmanufactured timber.	10,204	5,553	10,979	9,321	27,561	30,620	49,665	42,566
	WOOD MANUFACTURES.							
Furniture and cabinet ware.	—	—	—	—	416	115	859	1,035
Builders' woodwork (window frames, doors, etc.).	—	—	—	—	180	62	1,592	1,108
Plywood	—	—	—	—	—	—	1,582	2,094
Chip Boxes	—	—	—	—	—	—	5	—
Tool handles	—	—	—	—	—	—	254	—
Domestic woodwork (bread platters, trays, etc.).	—	—	—	—	—	—	287	—
Not elsewhere speci- fied.	—	—	—	—	2,099	1,821	2,736	—
Total manufactured timber.	—	—	—	—	2,695	1,998	7,315	8,426
	PULP OF WOOD.							
Pulp of Wood	Tons. 859	Tons. 682	Tons. 1,431	Tons. 1,283	4,058	7,915	10,988	8,472

* 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.

The direct foreign trade of the Irish Free State has been excluded from the figures for 1927 and 1928.

