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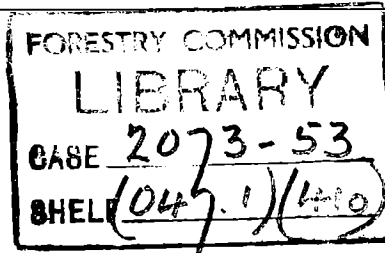
Twenty-third
~~Nineteenth~~

Annual Report of the
Forestry Commissioners

for the Year ending
September 30th

~~1938~~
1942

~~Ordered by The House of Commons to be Printed~~
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NOTE.- Owing to war-time difficulties
this Report was not published.

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COPY.

Twenty-Third Annual Report
of the
Forestry Commissioners
for the year ending
30th September, 1942.

Personnel of the Commission.

The late Mr Walter Smith. The Commissioners record with regret the loss of their colleague Mr Walter R. Smith, J.P., who died on 26th February, 1942. Mr Walter Smith was returned to Parliament on three occasions, first as Member for the Wellingborough Division of Northamptonshire and later as Member for Norwich; he held office in the Labour Government of 1924 and again in 1929-31 and at the date of his death he had served as Forestry Commissioner for exactly 17 years. On the outbreak of war in 1939 he took charge of the Labour Section of the Timber Supply Department of the Commission and his services were invaluable. His record as a Commissioner was one of loyalty and keenness and he was, at all times, particularly interested in the welfare of the staff.

Mr D.R. Grenfell, who had remained a member of the Commission since his appointment of Minister of Mines in 1940, resigned in May, 1942, after upwards of 13 years' service as a Commissioner.

The Earl of Radnor, Mr M.P. Price, M.P., and Mr D.J.K. Quibell, M.P., were appointed Commissioners on 23rd May, 1942.

Forest Policy.

Current Policy.

During the year under report there were no major developments. Full attention was given to the maintenance of existing plantations at the expense where necessary of making new plantations. The large thinning programme, which tended nevertheless to get into arrears, provided considerable quantities of material useful to the war effort. Large quantities of suitable timber were turned over to the Home Grown Timber Department of the Ministry of Supply for exploitation.

The general position was rendered difficult by two main factors. It became progressively harder to secure efficient labour for normal forest operations and, secondly, the pressure of the armed forces of the Crown became more intense in the woodlands. The labour position was partly met by the recruitment of women and by vocational employment of school boys.

The spring of 1942 was also extremely hazardous and fire losses were the highest on record. The slackening of the muir-burning regulations in Scotland, where losses were particularly high, the practice of realistic military operations, and generally the presence in the woodlands of people who did not appreciate fire hazards, were the main contributory causes. On the other hand losses from enemy action were unexpectedly low. In these circumstances great efforts were made to improve methods of fire prevention and fire protection both independently through the Commission's own organisation and also in association with the National Fire Service.

With regard to nursery stocks the policy was to maintain the largest possible supply of seedlings while transplanting only sufficient seedlings to meet the assured planting programmes. It was considered that although this procedure would lead in the event of a long war to the destruction of seedlings it was the cheapest way of ensuring that there shall be a minimum of delay in starting large-scale planting when peace returns. The area of nursery ground was extended in order to have suitable lining-out ground ready as required. A Conference was also held with the Horticultural Trades Association in February, 1942, with a view to the maintenance of stocks of plants in trade nurseries.

Land acquisition made little progress owing to the lack of specialised officers for conducting the necessary enquiries and negotiations.

Care was taken that all important research projects should be maintained.

Future Forest Policy.

During the year the Commissioners devoted a great deal of time to the formulation of Post-War Forest Policy. As a preliminary the subject was sub-divided under a number of headings and good progress was made in considering the individual items. Sufficient progress had been made by July, 1942, to call into consultation the Presidents of the Royal Scottish and Royal English Forestry Societies and representatives of the Central Landowners' Association and Timber Trade.

The Chairman had previously (July, 1941) reported generally on Post-War Forestry to Mr Greenwood (Minister without Portfolio) and reported again (May 1942) to his successor Sir William Jowitt. The latter accompanied the Chairman on visits of inspection to New Forest, Inverliever and East Anglia, and prepared an independent report to the Cabinet.

Contact was maintained with various Committees considering subjects which had a bearing on Post-War Forestry. Chief among these was Lord Justice Scott's Committee on Land Utilisation before which the Chairman gave evidence (December, 1941). He also gave evidence before Earl De La Warr's Committee on English and Welsh Hill Sheep and had discussions with Lord Balfour, Chairman of the Scottish Hill Sheep Committee. Mr Gosling (Acting A.C. (Scotland)) was nominated to give evidence before the Scottish Land Settlement Committee.

So far as future Forestry Policy was concerned, therefore, the year under review was a period of active enquiry conducted with a view to the formulation of thorough-going plans.

General.

The Headquarters of the Commission remained at Bristol throughout the year. The Chairman and a small staff returned to London (6, Burlington Gardens) in June 1942 in order to keep in closer contact with Government affairs generally and Mr W.L. Taylor took charge of routine business at Bristol.

The total area of plantable land acquired during the year amounted to 8,149 acres compared with 12,450 acres in 1941. The total area planted in 1942 was 16,740 acres compared with 26,867 acres in 1941, a reduction which was largely due to allocation of land for food crops, lack of labour, and increase of weevils. The area thinned amounted to 3,177 acres compared with 4,081 acres in 1941, and the area felled to 5,740 acres as against 5,717 acres in the previous year.

FINANCE.

The balance in the Forestry Fund at the commencement of the forest year was £344,487. Receipts from Parliamentary Votes (£625,000) and Forestry Operations (£618,990) amounted to £1,245,990. Payments amounted to £1,120,544, so that the balance in the Fund at 30th September, 1942 was £467,935. The progress of payments and receipts is indicated in the table below.

Forestry Fund: Payments and Receipts.

Year ending 30th September.	Payments.			Receipts.			Net Payments.				
	Proposed.	Actual.	Excess (+) Deficit (-)	Proposed.	Actual.	Excess (+) Deficit (-)	Proposed	Actual	Excess (+) Deficit (-)		
First decade: 1930-39 (10½ finan- cial years)	£ -	£ 4,502,018	£ -	£ -	£ 851,424	£ -	£ 3,892,000	£ 3,650,534	£ - 241,466		
Second decade: 1930-39	8,423,000	7,926,095	- 496,907	1,731,000	1,821,852	+ 90,852	6,692,000	6,104,241	- 587,759		
Third decade: 1940 1941 1942	1,012,000 955,200 1,145,000	822,217 988,290 1,120,544	- 189,783 + 33,090 - 22,456	349,000 461,700 556,000	363,198 569,771 618,990	+ 14,198 +108,071 + 62,990	683,000 493,500 587,000	459,019 418,519 501,554	- 203,981 - 74,981 - 85,446		
Total ..									-	11,133,867	-

Commissioners' Estates

The following statement presents a general view of the properties under the charge of the Commissioners at 30th September, 1942, and a summary of the main silvicultural operations which have been undertaken:

<u>Number of Forests</u>	<u>England & Wales</u>	<u>Scotland</u>	<u>Total Great Britain</u>
At beginning of year	137	114	251
At end of year	138	117	255
<u>Utilisation of Ground (Acres)</u>			
Forest Land:			
Acquired Plantations	54,000	11,000	65,000
Planted by Forestry Commission.	266,000	154,000	420,000
To be Planted	<u>138,000</u>	<u>144,000</u>	<u>282,000</u>
	458,000	309,000	767,000
Nurseries	900	400	1,300
Agricultural	25,900	20,000	45,900
Forest Workers' Holdings (including out-run)	10,700	3,400	14,100
Unplantable and Miscellaneous	<u>133,100</u>	<u>275,300</u>	<u>408,400</u>
	628,600	608,100	<u>1,236,700</u>

The total area planted, including replacements, was 439,779 acres (see page 7).

	<u>England & Wales</u>	<u>Scotland</u>	<u>Great Britain</u>
<u>Silvicultural Operations</u> <u>during Year (Acres)</u>			
Planted or Sown	9,634	7,112	16,746
Naturally Regenerated	263	-	263
Underplanted	269	60	329
Thinned	6,418	1,759	8,177
Felled	5,119	621	5,740

Holdings and Estate
Management:

Number of Forest Workers'
Holdings Established:

At beginning of year	1,092	590	1,482
During Year	<u>1</u>	<u>2</u>	<u>3</u>
At end of year	1,093	592	1,485

Other Tenancies:

Agricultural Holdings:

Under £20 per annum	802	435	1,237
Over £20 per annum	415	233	648
Foresters' Houses	126	63	194
Cottages	392	293	685
Residential and Sporting	320	257	577
Easements, Permissions, Minerals, etc.	2,169	303	2,472
Site Rents and Fees	<u>-</u>	<u>246</u>	<u>246</u>
	<u>4,224</u>	<u>1,835</u>	<u>6,059</u>

It will be observed that during the year the number of forest units has increased by 4, from 251 to 255. One unit (Chequers) was handed over to the Trustees of the Chequers Estate; of the 5 new units 2 were in England and 3 in Scotland.

Including transferred Crown Woodlands the total area of land which has been acquired increased by 10,000 acres, from 1,227,000 to 1,237,000 acres, and the plantable area by 8,000 acres, from 759,000 acres to 767,000 acres.

Compared with the previous year the changes in silvicultural operations are planting and sowing 16,740 acres against 26,867 acres, area thinned 8,177 acres against 4,081 acres, and area felled 5,740 acres against 5,717 acres.

Land Acquisition

Acquisitions during the year amounted to 9,153 acres net, of which 8,149 acres were classified as plantable.

Acquisition of Plantable Land.

Year ending 30th September.	By Lease or Feu acres	By Purchase acres	Actual acres	Total	
				Acland Proposals acres	Excess (+) Deficit (-) acres
First decade:					
1920-29.	156,759	153,471	310,230	402,000	- 91,770
Second decade:					
1930-39.	60,057	284,700	344,757	343,000	+ 1,757
Third decade:					
1940	24,396	7,238	31,634	34,300	- 2,666
1941	2,526	9,924	12,450	34,300	- 21,850
1942	<u>1,190</u>	<u>6,959</u>	<u>8,149</u>	<u>34,300</u>	<u>- 26,151</u>
	<u>244,928</u>	<u>462,292</u>	<u>707,220</u>	<u>847,900</u>	<u>- 140,680</u>

Planting Programme

State Forests.

The area planted during the year was 16,746 acres.

Area Planted.

Year Ending 30th September	Proposed to be Planted	ACTUALLY PLANTED		Total	Excess (+) Deficit (-) on Decade or Annual Programme
		New Planting	Replacements		
First Decade:	Acres	Acres	Acres	Acres	Acres
1920-29:	150,000	126,444	4,316	130,760	-19,240
Conifers					
Hardwoods	Unspecified	6,365	1,146	7,511	
				138,271	
Second Decade:	*	218,064	12,543	230,607	
1930-39:					
Third Decade:					
1940		26,411	877	27,288	
1941		25,644	1,223	26,867	
1942		16,045	701	16,746	
		418,973	20,806	439,779	

* The area proposed to be planted was 25,000 acres per annum for 1930 and 1931, and a minimum of 20,000 acres per annum for 1932 to 1936. From 1937 onwards the proposals embraced the Special Areas programme. The general object in view was to increase the rate of planting as quickly as possible to 30,000 acres per annum.

The total area planted by the Commission to 30th September, 1942, was 439,779 acres, of which 406,350 acres consisted of conifers and 33,429 acres of hardwoods. New planting accounted for 418,973 acres and replacements, which included 9470 acres replanted after damage by fire, for 20,806 acres. Details are given below:-

	<u>Conifers</u> Acres	<u>Hardwoods</u> Acres	<u>Total</u> Acres
New planting	389,580	29,393	418,973
Replacements	16,770	4,036	20,806
Total	406,350	33,429	439,779

Assistance to Local Authorities and Private Owners.

The Commissioners have continued to assist planting by local authorities and private owners by means of grants and a proceeds-sharing scheme. The total area planted amounts to 138,288 acres, of which

3,681 acres were planted during the year. Particulars of the grants are given on page 27 .

First decade	Acres.
1920-29	72,856
Second decade	
1930-39	53,006
Third decade	
1940	4,316
1941	4,427
1942	3,681
	<hr/>
	138,288
	<hr/>

Utilisation of Home Grown Timber

The quantities and values of timber sold to the Home Timber Production Department of the Ministry of Supply during the year were as follows:- Saw timber 6,258,000 cu.ft. (hardwoods 2,705,000 cu. ft., softwoods 3,553,000 cu. ft.) valued at £326,000; Pitwood, etc. 3,860,000 cu.ft. valued at £142,000. These sales consisted mainly of standing timber, but included also a certain amount of prepared, or partly prepared, timber resulting from thinnings undertaken by the Commission. The total quantity of timber sold to the Home Timber Production Department from September 1939 to September 1942 amounted to nearly 31½ million cu.ft., valued at £1,191,000.

The character of the fellings has swung more to saw timber as so many of the Commission's pitwood stands have become exhausted on account of the very heavy call upon them in the first 2 years of the war. On the other hand the area thinned during the year is twice that in the previous year, the figures being: 1941-4081 acres (England and Wales 3,089 acres, Scotland 992 acres), 1942 - 8,177 acres (England and Wales 6,418 acres, Scotland 1,759 acres). This increase is largely due to the fact that more plantations have reached the thinning stage.

Amenity

The Council for the Preservation of Rural England with whom the Commissioners work in close liaison in matters pertaining to the preservation of amenities have issued a War-Time Progress Report for the period August 1941 to August 1942. This contains (page 16) a reference to afforestation and the Council's recommendations are so much in accord with the Commissioners' aims that a part of the reference may be quoted:

"It seems desirable that a measure of control of State and privately owned woodlands should be maintained under the Forestry Commission after the war to ensure (1) Uniformity and continuity in the system of management; (2) the prevention of wholesale destruction by developers and timber speculators which has been the cause of much disfigurement and waste in time of peace. The post-war authority should be the existing Forestry Commission, whose policy with regard to the creation of national forest parks in suitable areas should be encouraged and supported.

Licensing of felling should be maintained in such a way as to allow freedom of enterprise to well-managed properties. Re-afforestation after felling should be made compulsory forthwith and the C.P.R.E. has already recommended that a certain proportion of the sale price of timber received from clear-felled areas over five acres should be reserved for such re-afforestation. Whatever method is devised, it is the view of the Council that re-afforestation is imperative and that it should be compulsory.

A policy of mixed planting, where possible, is desirable on the grounds of amenity. When felling takes place a sufficient number of trees should be left to allow for natural regeneration. Where this is not possible nor likely to be effective, recourse must be had to planting which should be carefully devised to suit the soil and maintain the character of the landscape. The fullest possible support should be given to the authorities in a policy for the extermination of rabbits and other vermin."

New Forest

Reference was made in the Commissioners' last Report to the fact that it was proposed to hold a further Conference of Representatives of the Planning Authorities concerned together with representatives of the New Forest Verderers, The New Forest Advisory Committee, The Ministry of Health, and the Forestry Commissioners, in order to reconsider the Report² of the Committee of Planning Officers in the light of present circumstances. This Conference was duly held early in the year and was preceded by a Meeting of the Committee of Planning Officers who issued a Second Report recommending the formation of an Advisory Planning Committee for the New Forest with dual functions: firstly, to advise on interim development affecting the Forest, and, secondly, to make suggestions regarding the preparation of Statutory Schemes, the main purpose in view being the preservation of the amenities of the Forest and its surroundings.

The Conference adopted the recommendations with slight amendments and unanimously passed a resolution in favour of the formation of an Advisory Planning Committee supported by a Technical Committee of Planning Officers.

The Commissioners welcomed the new measures for the protection of the Forest, the importance of which, in the light of recent events, cannot be over-estimated and before the end of the year the First Meeting of the new Committee was held.

² "Protection of the New Forest". Report of the Committee of Planning Officers 1938-39. (H.M. Stationery Office).

Private Forestry

The Royal Scottish Forestry Society, The Royal English Forestry Society, and The Central Landowners' Association have prepared reports containing proposals and recommendations for an improved Post-War Policy for Private Woodlands. It is certain that war fellings will result in almost complete devastation of many estate woods, and one of the major issues which will arise will be the necessity for rehabilitating the existing woodlands and thereafter maintaining them in a state of productivity. The Commissioners are glad to have the considered views of the Societies and hope to arrange for consultation on the many post-war problems which present themselves with a view to formulating proposals for submission to Government.

National Forest Parks

The war has prevented the formation and development of additional National Forest Parks, the first of which (Argyll) was opened in 1936. They provide a cheap and effective contribution towards the provision of outdoor recreational facilities for the public and the Commissioners' Estates already include several areas which are considered eminently suited for the formation of additional Parks after the war.

A meeting of the Advisory Committee for the Argyll National Forest Park was held at Edinburgh during the year under review, when the opportunity was taken to consider the post-war aims of those interested in the development of National Forest Parks with a view to helping the movement. It was agreed to recommend that the Commissioners should be entrusted with the development and management of National Park areas in Scotland.

Imperial Forestry Institute

Arrangements were made as before for students of the Institute to visit Forestry Commission areas in place of the customary tours to the Continent.

Compilation of the field data collected from the many war-felling areas is proceeding and is in process of being analysed. This research work was undertaken by the Institute on behalf of the Commissioners. The project aims primarily at correlation of growth and timber defects with site factors, and the investigation includes details as to ecology, soil science and pathology. It is expected that a general report on the project will be available in due course.

The Commission's Research Officer continued to be attached to the Institute.

The Weather

In the early part of the winter bad weather delayed planting work in Scotland and this was followed by a period of acute fire danger. South of the Border a hard winter was experienced for the third year in succession and there was a severe spring drought. It was in fact fortunate that the planting programme was on a much reduced scale compared with previous years.

OPERATIONS - FINANCIAL YEAR 1941 - 1942.

The Forestry Fund.

The position of the Forestry Fund at 30th September 1942, 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.			Payments (Table II, Heads A. to L.).	Balance in Forestry Fund 30th September
		Parliamentary Votes	From Forestry Operations, etc. (Table II Head 3).	Total		
	(1)	(2)	(3)	(4)	(5)	(6)
First decade: 1920-29	£ -	£ 4,000,000	£ 851,484	£ 4,851,484	£ 4,602,018	£ -
Second decade: 1930-39	-	6,196,800	1,321,852	7,948,652	7,926,095	-
Third decade:						
1940	372,026	450,000	368,198	815,198	822,217	863,006
1941	363,006	400,000	642,771	1,405,771	988,290	344,487
1942	344,487	625,000	615,990	1,240,990	1,120,544	467,933
Grand Total	-	11,601,800	4,236,295	15,827,095	15,359,102	-

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

An analysis of payments and receipts by Heads of Account is given in Table II. Compared with the previous year, total payments rose from £988,290 to £1,120,544, an increase of £132,254, mainly under the head of forestry operations. Receipts were greater by £49,219, and net payments were therefore £83,035 more than in 1941. It may be noted that Heads of Account differ in some respects from those under which estimates are presented to Parliament.

Table II is limited to sums actually expended or received, recorded by the heads of account under which they occurred. In subsequent tables, which are based on commercial practice, 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 transfers of land and buildings between the forests and forest workers' holdings.

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

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

Year ending 30th September	Payments.												Receipts	
	A	B	C	D	E	F	G	H	J	K	L	Total	X	Net Payments
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
First decade: 1920-29	£ 494,157	£ 22,676	£ 30,536	£ 74,434	£ 3,113,337	£ 207,824	£ 76,004	£ 36,927	£ 91,776	£ 23,342	£ 325,455	£ 4,502,013	£ 851,484	£ 3,650,534
Second Decade: 1930-39	714,343	53,003	49,435	107,251	6,232,917	128,596	73,538	84,916	57	13,681	466,306	7,326,033	1,321,852	6,104,241
Third decade: 1940- 1941 1942	62,630 76,984 87,306	6,397 5,997 4,759	6,698 5,996 5,362	13,565 14,978 16,284	681,431 844,919 954,173	9,660 10,250 19,668	3,657 4,351 10,850	9,433 7,819 9,580	52 -	762 174 179	27,872 16,792 12,623	822,217 988,290 1,120,544	353,198 569,771 618,990	459,019 418,519 501,554
Grand Total	1,435,420	92,612	98,127	226,512	11,832,337	375,998	168,380	142,475	91,835	31,133	851,048	15,359,162	4,225,295	11,133,867

Table III. - Expenditure and Income.

Year ending 30th September.	A to D	Expenditure (Including Allocation of Column 1).								Income.				Net Expenditure (14)
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
First decade: 1920-29	\$ 582,178	\$ 3,612,877	\$ 241,694	\$ 101,513	\$ 79,650	\$ 99,233	\$ 61,259	\$ 309,895	\$ 4,485,649	\$ 822,106	\$ 27,515	\$ 6,936	\$ 916,559	\$ 3,568,090
Second decade: 1930-39	925,404	7,056,630	184,855	97,998	140,245	11,912	42,694	566,871	8,070,165	1,770,014	164,466	4,673	1,943,543	6,126,612
Third decade: 1940 1941 1942	90,903 82,117 110,149	781,192 922,624 1,061,763	12,407 12,673 24,068	6,343 5,879 12,346	14,819 12,480 14,898	908 777 1,046	1,635 926 1,225	37,887 24,479 23,424	853,898 979,838 1,158,659	551,362 552,129 698,040	20,124 20,905 21,845	782 647 1,624	572,468 576,681 721,209	281,427 405,157 417,451
Grand Total	1,790,751	\$ 3,334,736	446,697	221,084	261,732	113,974	107,799	1,041,244	15,528,196	4,456,653	269,145	14,662	4,730,480	10,797,725
Percentage		85.9	2.9	1.4	1.7	.7	.7	6.7	100	94.2	5.5	.3	100	

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

Subheads A to D - General Organisation

Expenditure, £110,149

Expenditure is given on a net basis, after deducting receipts on account of pension liability for staff loaned to other Departments. Compared with 1941 there is an apparent increase of £28,032. Receipts in 1941 however were abnormal owing to the inclusion of arrears, and on the basis of gross expenditure, which amounted to £113,364 in 1942, the increase amounts to £12,811 over the comparable figure for the previous year, due to normal increments, increases in war bonus, issue of balance of civil pay to staff serving with the Forces, and revised regulations for travelling and subsistence allowances.

The technical staff employed and not seconded to the Ministry of Supply comprised 16 Divisional Officers and 49 District Officers.

Subhead E - Forestry Operations

Expenditure, £1,061,763: Income, £698,040.

Details of expenditure and income are given in Table E.

Gross expenditure was £139,139 more than in 1941. The Chief increases were on overhead charges and superior supervision (£22,129), local supervision (£18,962), cultural operations (£17,054), preparation of produce (£62,707), stores and miscellaneous (£25,213). Overhead charges and superior supervision are dealt with in the preceding section. The rise in cost of local supervision was due to increases in rates of pay for foresters and foremen and normal increments. Increases in the other items are due largely to the raising of the minimum agricultural wage (which applies also to forest workers) from 48/- to 60/- as from 28th December 1941 in England and Wales and 19th January, 1942, in Scotland. Income from forestry operations rose by £142,911.

Overhead Charges, £37,404; Superior Supervision, £48,398 and Local Supervision, £94,715. Overhead charges are in respect of salaries, allowances and other expenses in the offices of the Commissioners and Assistant Commissioners. Superior supervision represents similar expenditure in respect of the Deputy Surveyors, Divisional Officers and District Officers; and local supervision includes the salaries, housing allowances and miscellaneous expenses of Foresters and Foremen. During the year the number of Foresters and Foremen employed in forestry operations was increased by 39. The numbers at 30th September, 1942, were:- Foresters 252 (Head, 8; Grade I, 52; Grade II, 192), Foremen 138.

Acquisition of Land, Buildings and Standing Timber.-

Expenditure amounted to £55,845, of which £21,660 was in respect of purchases of land including standing timber and buildings, and £34,185 in respect of land held on long lease or feu. (This expenditure is not directly applicable to the areas acquired during the year, particulars of which follow).

The total area of land acquired during the forest year 1941-42 amounted to 9,552 acres, of which 8,208 acres were classified as plantable. On the other hand disposals and adjustments amounted to 399 acres (89 acres plantable).

The average rent or feu duty for land acquired for forestry operations during the year by lease or feu was approximately 2s.0d. per acre and the average price for such land purchased, approximately £1.2.4. per acre. If the whole outlay in respect of land, buildings, timber, etc., were charged against plantable land the figures would be 2s.2d. and £2. 3. 4. respectively. Land and buildings for forest workers' holdings are excluded.

The net total area in Great Britain in respect of which the legal formalities of acquisition by the Department had been completed by 30th September, 1942, was 1,113,287 acres, the corresponding figures in the previous two Annual Reports being 1,104,133 and 1,088,359 acres. In addition to these completed acquisitions, entry had been secured to other property. Details are given in the table below, which also shows the area of "plantable" land and "other" land, i.e. land which is either too poor to plant or is required for other purposes.

Land acquired by Lease, Feu and Purchase from
29th November, 1919, to 30th September, 1942.

	By Lease and Feu			By Purchase			Total Acquired
	Plantable (including planted)	Other Land	Total	Plantable (including planted)	Other Land	Total	
	Acres	Acres	Acres	Acres	Acres	Acres	Acres
England and Wales: Finally completed ...	141,544	31,452	172,996	265,688	79,062	344,750	517,746
Entry secured	2,632	107	2,739	222	-	222	2,961
Total	144,176	31,559	175,735	265,910	79,062	344,972	520,707
Scotland: Finally completed ...	100,323	113,317	213,640	196,382	185,519	381,901	595,541
Entry secured	429	64	493	-	-	-	493
Total ...	100,752	113,381	214,133	196,382	185,519	381,901	596,034
Great Britain	244,928	144,940	389,868	462,292	264,581	726,873	1,116,741

Of the net total area acquired by lease, feu and purchase in Great Britain to 30th September, 1942, 707,220 acres were classified at the time of acquisition as plantable and of this area 410,086 acres (58 per cent.) were in England and Wales and 297,134 acres (42 per cent.) in Scotland.

In addition to the above-mentioned areas, Crown woodlands extending to about 120,000 acres (of which some 60,000 acres are plantable) have been transferred to the Forestry Commissioners.

The total area of land in the Commissioners' control is thus approximately 1,237,000 acres. In round figures the utilisation as at 30th September, 1942 was as shown in the table on page 4.

Table E. - Forestry Operations.

Year Ending 30th September.	Expenditure (Table IIa, Column 2).													Income (Table IIa, Column 10)				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)			
Plant decoder																		
1930-39	192,997	201,192	174,150	787,509	1,510,801	118,853	115,498	411,877	5,512,577	78,784	274,081	406,504	122,639	882,108	2,650,489			
Second decade:																		
1930-39	352,090	352,049	453,881	1,584,471	3,071,019	362,395	244,853	864,072	7,056,590	74,494	781,033	692,094	205,404	1,770,014	5,296,596			
Third decade:																		
1940	38,365	32,585	62,773	70,697	431,783	21,482	25,487	98,012	781,192	1,634	92,728	432,065	24,335	551,362	229,830			
1941	29,595	34,078	75,753	63,990	533,327	33,766	25,282	126,894	823,694	2,481	89,193	428,374	29,081	538,129	367,485			
1942	37,404	42,388	94,715	29,845	350,381	96,472	26,481	152,087	1,081,765	1,677	103,045	340,778	52,540	698,040	363,723			
Grand Total	630,319	668,212	901,033	2,514,672	6,087,281	652,967	437,571	1,482,082	13,354,756	101,080	1,356,089	2,803,903	432,899	4,486,633	9,879,085			
Percentage	4.7	5.0	6.8	18.9	45.7	4.7	3.3	10.9	100	3.6	30.4	56.3	9.7	100				

Forestry Commission Units

ENGLAND AND WALES

1. Chopwell, Durham. *
2. Delamere, Cheshire. *
3. Hafod Fawr, Merioneth. *
4. Dean Forest, Gloucester, Hereford and Monmouth. *
5. Tintern, Monmouth. *
6. Dymock, Gloucester and Hereford. *
7. Salcey, Bucks and Northampton. *
8. Hazelborough, Bucks and Northampton. *
9. Alice Holt, Hants. *
10. Woolmer, Hants. *
11. Bere, Hants. *
12. New Forest, Hants. *
13. Parkhurst, Isle of Wight. *
14. Bedgebury, Kent and Sussex. *
15. Rothbury, Northumberland.
16. Thornthwaite, Cumberland.
17. Allerston, Yorks.
18. Selby, Yorks.
19. Gwydyr, Caernarvon and Denbigh.
20. Coed-y-Brenin, Merioneth.
21. Cannock Chase, Stafford.
22. Rockingham, Northampton.
23. Swaffham Norfolk.
24. Thetford Chase, Norfolk and Suffolk.
25. Rendlesham, Suffolk.
26. Ampthill, Bedford.
27. Mortimer, Hereford, Radnor and Salop.
28. Walcot, Salop.
29. Kerry, Montgomery and Salop.
30. Rheola, Glamorgan.
31. Margam, Glamorgan.
32. Llantrisant, Glamorgan.
33. Llanover, Monmouth.
34. Chepstow, Monmouth.
35. Bodmin, Cornwall.
36. Halwill, Devon.
37. Haldon, Devon.
38. Eggesford, Devon.
39. Brendon, Somerset.
40. Quantocks, Somerset.
41. Wareham, Dorset.
42. Bramshill, Berks and Hants.
43. Chiddingfold, Surrey and Sussex.
44. Ennerdale, Cumberland.
45. Clipstone, Derby and Nottingham.
46. Beddgelert, Caernarvon.
47. Cynywd, Merioneth.
48. Dovey, Merioneth and Montgomery.
49. Radnor, Radnor.
50. Lymington, Kent.
51. Kielder, Northumberland.
52. Haugh, Hereford.
53. Wyre, Worcester.
54. Brecon, Brecknock.
55. Brechfa, Carmarthen.
56. Ringwood, Dorset and Hants.
57. Bourne, Lincoln and Rutland.
58. Hamsterley, Durham.
59. Hopy, Derby.
60. Laughton, Lincoln.
61. Friston, Sussex.
62. Micheldever, Hants.
63. Ferndown, Dorset.
64. Wilsey Down, Cornwall.
65. Glasfynydd, Brecknock.
66. Rosedale, Yorks.
67. Ampleforth, Yorks.
68. Cwmeinion, Cardigan.
69. Tarenig, Cardigan and Montgomery.
70. Mathrafal, Montgomery.
71. Fembrey, Carmarthen.
72. Westbury, Hants.
73. Buriton, Hants and Sussex.
74. Bawtry, Nottingham.
75. Sherwood, Nottingham.
76. Swanton, Norfolk.
77. Dunwich, Suffolk.
78. Brynmawr, Cardigan.
79. Bruton, Somerset and Wilts.
80. Myherin, Cardigan.
81. Harwood, Northumberland.
82. Kershope, Cumberland.
83. Combley, Isle of Wight.
84. Brightstone, Isle of Wight.
85. Slaley, Northumberland.
86. Clocaenog, Denbigh and Merioneth.
87. Dyfnant, Montgomery.
88. Crychan, Brecknock and Carmarthen.
89. Caio, Carmarthen.
90. Dartmoor, Devon.
91. Yardley Chase, Bedford and Northampton.
92. Arkengarthdale, Yorks.
93. Mynydd Eddu, Brecknock and Monmouth.
94. Herodsfoot, Cornwall.
95. West Woods, Wilts.
96. Bardney, Lincoln.
97. Redesdale, Northumberland.
98. Challock, Kent.
99. Vinehall, Sussex.
100. Woodwood, Sussex.
101. Lydford, Devon.
102. Hardknott, Cumberland.
103. Langdale, Yorks.
104. The King's Forest, Suffolk.

* Former Crown Woods

England and Wales continued.

- | | | | |
|------|-------------------------------------|------|----------------------------|
| 105. | Itton, Monmouth. | 121. | Usk, Brecknock. |
| 106. | Grizedale, Lancashire. | 122. | Giedd, Brecknock. |
| 107. | Hafren, Montgomery. | 123. | Coed-y-Rhaiads, Brecknock. |
| 108. | Collingbourne, Wilts. | 124. | Michaelston, Glamorgan. |
| 109. | Gravetye, Sussex. | 125. | Gwmogwr, Glamorgan. |
| 110. | Sedbury, Gloucester. | 126. | Scardale, Yorks. |
| 111. | Warke, Northumberland. | 127. | Coed Sarnau, Reds. |
| 112. | Greystoke, Cumberland. | 128. | Wendover, Bucks. |
| 113. | Wigsley, Lincoln and
Nottingham. | 129. | Savernake, Wilts. |
| 114. | Hay, Hereford. | 130. | Osborne, Isle of Wight. |
| 115. | St. Gwynno, Glamorgan. | 131. | Monmouth, Mon. |
| 116. | Mendip, Somerset. | 132. | Arundel, Sussex. |
| 117. | Hartland, Devon. | 133. | Newborough, Anglesey. |
| 118. | Marden, Sussex. | 134. | Orlestone, Kent. |
| 119. | Willingham, Lincoln. | 135. | Hevingham, Norfolk. |
| 120. | Gardiner, Wilts. | 136. | Wentwood, Mon. |
| | 138. Alton, Hants. | 137. | Andover, Hants. |

SCOTLAND.

- | | |
|--|---|
| <p>1. Inverliever, Argyll. *</p> <p>2. Borgie, Sutherland.</p> <p>3. Slattadale, Ross.</p> <p>4. Achnashellach, Ross.</p> <p>5. Ratagan, Inverness and Ross.</p> <p>6. Inchmacardoch, Inverness.</p> <p>7. South Laggan, Inverness.</p> <p>8. Port Clair, Inverness.</p> <p>9. Culbin, Moray and Nairn.</p> <p>10. Monaghty, Moray.</p> <p>11. Kirkhill, Aberdeen.</p> <p>12. Montreathmont, Angus.</p> <p>13. Glen Righ, Inverness.</p> <p>14. Glenduror, Argyll.</p> <p>15. Glenbranter, Argyll.</p> <p>16. Tertsmuir, Fife.</p> <p>17. Edensmuir, Fife.</p> <p>18. Glentress, Peebles.</p> <p>19. Dalbeattie, Kirkcudbright.</p> <p>20. Newcastleton, Roxburgh.</p> <p>21. Teindland, Moray.</p> <p>22. Glenurquhart, Inverness.</p> <p>23. Glenhurich, Argyll.</p> <p>24. Drummond Hill, Perth.</p> <p>25. The Queen's Forest, Inverness.</p> <p>26. Culloden, Inverness.</p> <p>27. Nevis, Inverness.</p> <p>28. Craig-nan-Eun, Inverness.</p> <p>29. Ardgartan, Argyll.</p> <p>30. Barcaldine, Argyll.</p> <p>31. Benmore, Argyll.</p> <p>32. The Bin, Aberdeen.</p> <p>33. Craig Phadrig, Inverness.</p> <p>34. Ordiequish, Moray.</p> <p>35. Salen, Argyll.</p> <p>36. North Strome, Ross.</p> <p>37. South Strome, Ross.</p> <p>38. Glenshiel, Ross.</p> <p>39. Glenfinart, Argyll.</p> <p>40. Findon, Ross.</p> <p>41. Kessock, Ross.</p> <p>42. Drumtochty, Kincardine.</p> <p>43. Midmar, Aberdeen.</p> <p>44. Kenmay, Aberdeen.</p> <p>45. Glengarry, Inverness.</p> <p>46. Blairadam, Fife and Kinross.</p> <p>47. Forest of Deer, Aberdeen.</p> <p>48. Forest of Ae, Dumfries.</p> <p>49. Eilanreach, Inverness.</p> <p>50. Greskine, Dumfries.</p> <p>51. Edgarhope, Berwick.</p> <p>52. Fearnoch, Argyll.</p> <p>53. Dornoch, Sutherland.</p> <p>54. Inverinate, Ross.</p> <p>55. Lennox Castle, Stirling.</p> <p>56. Loch Ard, Perth.</p> <p>57. Scootmore, Moray.</p> <p>58. Clunes, Inverness.</p> <p>59. Devilla, Fife.</p> | <p>60. Balblair, Sutherland.</p> <p>61. Lael, Ross.</p> <p>62. Clashindarroch, Aberdeen.</p> <p>63. Roseisle, Moray.</p> <p>64. Inglismaldie, Kincardine.</p> <p>65. Blackgrais, Perth.</p> <p>66. Achaglachgach, Argyll.</p> <p>67. Strathyre, Perth.</p> <p>68. Knapdale, Argyll.</p> <p>69. Fiunary, Argyll.</p> <p>70. Garden, Fife.</p> <p>71. Glenloy, Inverness.</p> <p>72. Aucherrodan, Dumfries.</p> <p>73. Kirroughtree, Kirkcudbright.</p> <p>74. Newtyle, Moray.</p> <p>75. Durris, Aberdeen and Kincardine.</p> <p>76. Longart, Ross.</p> <p>77. Garadhban, Stirling.</p> <p>78. Inverinan, Argyll.</p> <p>79. Glenbittle, Isle of Skye.</p> <p>80. Alltcailleach, Aberdeen.</p> <p>81. Fleet, Kirkcudbright.</p> <p>82. Kinfauns, Perth.</p> <p>83. Kilsture, Wigtown.</p> <p>84. Whitehaugh, Aberdeen.</p> <p>85. Guisachan, Inverness.</p> <p>86. Changue, Ayr.</p> <p>87. Asknish, Argyll.</p> <p>88. Dundough, Kirkcudbright.</p> <p>89. Carron Valley, Stirling.</p> <p>90. Tinnisburn, Roxburgh. and Dumfries.</p> <p>91. Glen Devon, Perth.</p> <p>92. Ardross, Ross.</p> <p>93. Lossie, Moray.</p> <p>94. Millbuie, Ross.</p> <p>95. Inshriach, Inverness.</p> <p>96. Craigvinean, Perth.</p> <p>97. Tilliefoure, Aberdeen.</p> <p>98. Corriedoo, Kirkcudbright.</p> <p>99. Keillour, Perth.</p> <p>100. Cairn Edward, Kirkcudbright.</p> <p>101. Minard, Argyll.</p> <p>102. Carcero, Kirkcudbright.</p> <p>103. Carradale, Argyll.</p> <p>104. Twiglees, Dumfries.</p> <p>105. Laurieston, Kirkcudbright.</p> <p>106. Saddell, Argyll.</p> <p>107. Assich, Nairn.</p> <p>108. Castle O'er, Dumfries.</p> <p>109. Wauchope, Roxburgh.</p> <p>110. Kilmichael, Argyll.</p> <p>111. Glentool, Kirkcudbright.</p> <p>112. Morangie, Ross.</p> <p>113. Blackhall, Kincardine.</p> <p>114. Rosarie, Banff.</p> <p>115. Kilcoy, Ross.</p> <p>116. Clauchrie, Dumfries.</p> |
|--|---|
117. Shielswood, Selkirk.

* Former Crown Woods.
 x Includes Bennan.
 + Includes Glencaird.

Table E.5. - Cultural Operations (Table E, Column 5)

Year ending 30th September	Plantations				Nurseries	Grand Total.
	Preparatory work and Planting. (1)	Establishment and Maintenance. (2)	Forest Protection. (3)	Total (4)		
	£	£	£	£	£	£
First decade: 1920-29	638,503	295,201	95,824	1,029,528	481,273	1,510,801
Second decade: 1930-39	1,053,327	916,427	377,133	2,346,887	724,132	3,071,019
Third decade: 1940	139,854	128,221	63,079	331,154	100,599	431,753
1941	149,570	159,020	89,341	397,931	135,396	533,327
1942	115,723	198,762	103,490	417,975	132,406	550,381
Grand Total	2,096,977	1,697,631	728,867	4,523,475	1,573,806	6,097,281
Percentage	46.4	37.5	16.1	100		

Cultural Operations. - Expenditure amounted to £550,381 details of which are given in Table E 5. Plantations accounted for £417,975 and nurseries £132,406.

Plantations. The total area planted or sown during the year was 16,746 acres, of which 15,733 acres were placed under conifers and 1,013 acres under broadleaved species. Included in the above are 664 acres re-afforested in former Crown Woods, and 700 661 acres replanted after damage by fire. Details by forests are given in the Appendix, pages 36 et seq.

The total addition to the woodland area of Great Britain as a result of the Commission's operations was 12,803 acres. In forming plantations and beating-up previous years' plantations 45 million trees were used, of which 51 per cent. were Norway and Sitka spruce; 26 per cent. Scots and Corsican pine; 9 per cent. European and Japanese larch; 12 per cent. broadleaved species; an area of 329 acres of existing woods was underplanted, necessitating the use of 172,000 plants.

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

Silvicultural Operations.

Division	Planted and Sown	Naturally Regenerated	Under planted	Thinned	Felled
	Acres	Acres	Acres	Acres	Acres
England & Wales:					
N.E.(E)	2,516	-	5	270	138
N.(W)	1,774	-	76	1,570	90
S.W.(E)	527	-	-	190	48
S.E.(E)	706	30	-	486	1,959
E.(E)	574	233	78	1,046	569
New	600	-	30	763	679
Dean	465	-	48	1,728	1,504
N.W.(E)	567	-	13	192	100
S.(W)	1,905	-	19	173	32
Total	9,634	263	269	6,418	5,119
Scotland:					
North	1,481	-	21	358	47
South	1,292	-	20	335	135
East	1,999	-	5	362	172
West	2,340	-	14	704	267
Total	7,112	-	60	1,759	621
Total. Great Britain	16,746	263	329	8,177	5,740

Cost of Planting.- The outlay on labour and material on the areas planted between 1919 and 1942 was £10.10.0. per acre.

This figure covers the cost of preparation of ground, drainage, fencing, plants, planting, replacement of failures and weeding, but does not include expenditure on forest protection, supervision and overhead charges.

NURSERIES - The total area under Nurseries at 30th September, 1942, was 1,268 acres stocked with 226 million seedlings and 76 million transplants. Comparative figures for the three years 1940 - 42 are given in the following table:-

Year Ending 30th Sept.	COUNTRY	SEEDS SOWN (lb,)			Stock of Plants at 30th September (thousands)						Area (Acres)
		Conif- erous	Broad- leaved	Total	Transplants			Seedlings			
					Conif- erous*	Broad- leaved	Total	Conif- erous.	Broad- leaved	Total	
1942	England and Wales	4,832	25,264	30,096	45,029	6,605	49,632	124,940	7,385	152,325	855 433
	Scotland ...	4,107	616	4,723	26,010	751	26,761	92,532	661	93,193	
	Total ...	8,939	25,880	34,819	69,039	7,354	76,393	217,472	8,046	225,518	
1941	England and Wales	4,933	278,880	283,813	55,933	10,355	66,288	100,156	20,776	120,932	817 424
	Scotland ...	3,952	4,285	8,237	35,377	1,008	36,385	83,497	1,036	84,533	
	Total ...	8,885	283,165	292,050	91,310	11,363	102,673	183,653	21,812	205,465	
1940	England and Wales	3,303	178,845	182,148	69,965	9,391	79,356	59,785	13,605	73,390	682 410
	Scotland ...	2,805	5,296	8,099	37,366	1,290	38,656	54,083	713	54,796	
	Total ...	6,106	184,139	190,245	107,331	10,681	118,012	113,868	14,318	128,186	

Details showing by Divisions the utilisation of Nursery Area are as follows:-

UTILISATION OF NURSERY AREA

Division	Seedbeds	Lines	Fallow and Green Crops	Other	Total
	Acres	Acres	Acres	Acres	Acres
England & Wales:					
N.E.(E)	27.4	48.3	37.4	15.9	129.
N.(W)	14.1	32.8	32.3	14.6	93.8
S.W.(E)	5.	12.2	6.6	8.1	31.9
S.E.(E)	34.4	28.3	16.1	15.9	94.7
E.(E)	38.7	45.4	51.4	23.9	159.4
New Dean	24.9	24.6	64.4	8.3	122.2
N.W.(E)	10.8	10.3	12.8	8.1	39.
S.(W)	6.7	13.4	15.2	4.	39.3
	19.7	32.3	37.6	36.5	126.1
Total	181.7	247.6	273.8	132.3	835.4
Scotland:					
North	18.8	27.7	24.	13.5	84.
South	17.9	25.1	27.2	11.1	81.3
East	28.	23.5	31.7	20.8	104.
West	32.7	43.	72.1	16.	163.8
Total	97.4	119.3	155.0	61.4	433.1
Total. Great Britain	279.1	366.9	428.8	193.7	1268.5

Seed Supply

No supplies of seed were available from the Continent and an attempt to purchase Corsican pine seed via Portugal and Madrid proved abortive. Canada was able to provide 1189 lbs. of Sitka spruce and 423 lbs. of Douglas fir seed. The United States 768 lbs. of Japanese larch, 400 lbs. of Sitka spruce, 98 lbs. of Douglas fir and 97 lbs. of Silver fir. The total value of these imports was £3,088.

On account of the difficulties of obtaining seed from overseas and the necessity of keeping the Commission's Nurseries adequately stocked to meet post-war demands the home collection was intensified. 2,732 lbs. of Scots pine seed were extracted from the cones collected and small quantities of Corsican pine and Douglas fir cones were obtained. In Scotland 391 lbs. of larch seed were secured as well as 1,046 lbs. of Norway spruce. Supplies of other conifer species were negligible.

Hardwood seed was far from plentiful. The acorn crop was a failure and only 20,000 lbs. of beech seed could be found as against an estimated requirement of 36,000 lbs.

Seed sold to the Trade and private individuals included 578 lbs. of conifer and 376 lbs. of hardwood seed. In addition 300 lbs. of Scots pine was invoiced to the United States.

Forest Fires. The weather conditions which prevailed in 1942 gave rise to the most serious losses by fire which the Commissioners have yet experienced. During the year 1,381 fires occurred, compared with 712 in 1941 and 1,144 in the previous bad fire year of 1938. The planted area affected was 6507 acres and the damage was assessed at £158,000 including cost of extinguishing. These figures include 113 fires (damage £28,000) caused by the Forces and 5 fires (damage £2,000) due to enemy action. In 1941 damage caused by the Forces amounted to £3000 and by enemy action to £18,000.

Comparative figures for the five years 1938 to 1942 are given below.

	<u>1938</u>	<u>1939</u>	<u>1940</u>	<u>1941</u>	<u>1942</u>
Number of fires	1,144	355	628	712	1,381
Area burnt (acres)	2,066	975	1,750	3,025	6,507
Damage valued at	£39,910	£19,465	£38,145	£49,400	£158,000

Claims aggregating £42,800 have been lodged by the Commissioners in respect of the damage done during the year.

The following table gives the causes of fires in 1942 and it will be seen that most fires originated in sparks from railway engines, but a large number (126) and the greatest damage were caused by fires which spread from adjoining land.

<u>Origin</u>	<u>Number of Fires.</u>	<u>Planted area burnt. acres</u>
Railways	946	737
Adjoining land	126	2,203
Troops etc.	113	915
General public	61	792
Commission's employees	12	573
Road Engines	5	3
Enemy action	5	121
Other	23	298
Unknown	90	867
Totals	1381	6,507

Subhead F. - Advances for Afforestation Purposes.

Expenditure £24,058

Grants to private individuals and local authorities for planting amounted to £8,872, advances in respect of a proceeds-sharing scheme to £11,000 and overhead and supervisory charges to £4,186.

The grants were as follows:-

- (1) Conifers. - Up to £2 per acre planted or sown and thereafter maintained as a forest crop.
- (2) Hardwoods.- For every acre planted or sown with approved species and thereafter maintained as an area for the production of hardwoods:- up to £4 per acre for oak or ash; £3 per acre for beech, sycamore or chestnut, and £2 per acre for other approved species.

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

	<u>England & Wales</u>	<u>Scotland</u>	<u>Total</u>
Number of Schemes	180	57	237
	Acres	Acres	Acres
Planting Conifers	1,853	1,825	3,078
Planting Hardwoods	599	4	603

Subhead G. - Education. Expenditure, £12,545.

Details of expenditure are given in Table G.

Apprentices' Schools: Expenditure, £7,232.

The syllabus and time-table were revised at the Parkend School (Forest of Dean) in order to be prepared for war-time contingencies which might necessitate the disbanding of the class before the 2-year course had been completed. Twenty-two second-year students continued at the school and 17 commenced the new course.

Good progress was also made at Benmore School, Argyll, and at the close of the forest year there were 17 first-year and 17 second-year students.

Grants to Universities, Colleges, etc: Expenditure, £1,642.

Grants were made during the year to the following: Cambridge University; University College of North Wales, Bangor, King's College, Newcastle-on-Tyne; Aberdeen University.

Imperial Forestry Institute. Expenditure, £2,625. The annual grant to the Imperial Forestry Institute from the Forestry Fund was continued; the amount paid in 1942 covers one and a half years. The number of students attending the Institute Courses showed a further reduction as compared with previous years. There were 6 Colonial Forestry scholars and 4 students.

Table 9. - Education

Year ending September	Expenditure (Table Ia, Column 4)									
	Superior Super- vision Overhead Charges	Salaries and Expenses of In- structors	Apprentices' Schools Purchase and Rent of Land and Buildings	Allowances to Apprentices	Stores, Fuel, Light, etc.	Grants to Insti- tutions	Total	Income	Net Expen- diture	
First decade: 1920-29	\$ 13,125	\$ 15,401	\$ 6,195	\$ 21,709	\$ 14,192	\$ 30,691	\$ 101,315	\$ 2,427	\$ 98,886	
Second decade: 1930-39	12,184	10,848	5,329	17,682	9,309	42,646	97,998	443	97,555	
Third decade: 1940 1941 1942	864 777 1,046	408 666 1,313	29 145 417	1,164 591 2,754	459 651 2,748	2,425 3,050 4,267	5,349 5,879 12,545	8 42 86	5,341 5,837 12,457	
Grand Total	27,996	28,655	12,115	43,900	27,359	83,079	223,084	3,008	220,076	
Percentage	12.6	12.8	5.4	19.7	12.5	37.2	100			

Subhead H - Research and Experiment

Expenditure: Gross, £14,598; Net, £14,176

Details of expenditure are given in Table H.

Table H - Research and Experiment

Year ending 30th September	Expenditure (Table Ia, Column 5).						Income	Net Expenditure
	Superior Super- vision and Overhead Charges £	Salaries and Expenses £	Labour, Stores, etc. £	Grants to Insti- tutions £	Total £	£		
First decade: 1920-29	13,699	38,458	20,230	7,265	79,650	1,058	78,592	
Second decade: 1930-39	14,584	55,042	47,030	23,589	140,245	2,540	137,705	
Third decade: 1940 1941 1942	864 777 1,046	5,501 5,452 6,587	4,768 4,128 5,296	3,686 3,129 1,669	14,819 12,480 14,598	532 435 422	14,287 12,045 14,176	
Grand Total	30,970	111,040	81,446	38,536	261,792	4,987	256,805	
Percentage	11.8	42.4	31.1	14.7	100			

Production

Eleven sample plots were established during the course of the year, and 45 plots remeasured. After allowing for plots lost as a result of war fellings, windfall, or fire, the total number in being at 31.8.42. was 213, of which 128 are in England and Wales and 85 in Scotland.

Nursery and Plantation Work.

Experiments on the propagation of Norway spruce from cuttings begin to yield encouraging results. Success largely depends on the time of year at which the cuttings are taken; growth promoting substances have not so far proved very effective. Methods of storing beech seed were studied; stratification in moist sand for a short period before sowing gave the best results, but dry storage led to a considerable reduction in viability.

Work on plantation problems included a survey of the older European larch plantations established by the Commission. Die-back has affected some of these in various parts of the country and it is hoped that the survey will throw some light on the causes of the trouble. An experiment on the season of planting beech on the chalk was completed; the evidence indicated that October was the most favourable planting month. In the Forest of Dean a series of beech plots was established using plants raised from seed collected in different regions. Experimental work on the treatment of derelict coppice areas was started at Tintern Forest, Monmouthshire.

Experimental plots at Borgie, Teindland, Inchnacardoch, Achnashellach, and Redgebury Forests were lost owing to forest fires.

Entomology and Mycology.

Some further progress was made with the chafarr investigation, but, in the main, attention was concentrated on the coniferous felled areas. Scattered outbreaks of pine weevil, pine beetle, and the clay weevils have occurred, but in most areas the produce has been removed before a pine beetle epidemic could develop, while the weevil menace has been largely countered by a policy of deferring replanting until the stumps have dried out. The inspection, at regular intervals, of the more important areas has resulted in the collection of much useful biological data.

Botanical and Soil Research

Research on tree mycorrhiza has continued under the direction of Dr. M.C. Rayner; further observations have been made upon plants raised in soil from Hope Forest in Derbyshire and Allerston Forest in Yorkshire.

The field side of the soil survey of Ardgarten Forest in Argyllshire was completed.

Advisory Committee on Forest Research

The Committee met at Scarborough and visited experimental plantations on Calluna moorland at Allerston Forest.

Utilisation.

Pitprops of various species and sizes, collected from different parts of the country, have been supplied to the Forest Products Research Laboratory for a series of tests on the strength values of home-grown props.

Subhead J.- Agency and Advisory Services

Expenditure: £1,046. Income £1,114.

The expenditure 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.

Income is mainly in respect of overhead charges for defence work undertaken for the War Department.

Subhead K.- Special Services. Expenditure, £1,225.

Details of expenditure are given in Table K.

Table K.- Special Services.

Year ending 30th September	Expenditure (Table IIA, Column 7).						Income	Net Expenditure
	Superior Supervision and Overhead Charges.	Consultative Committee's Expenses	Publications	Special Enquiries	Relief of Unemployment	Total		
First decade: 1920-29	£ 26,585	£ 523	£ 1,995	£ 12,368	£ 19,828	£ 61,299	£ 347	£ 60,952
Second decade: 1930-39	28,698	145	1,279	12,572	-	42,694	33	42,661
Third decade: 1940- 1941 1942	864 777 1,046	9 - -	2 - -	760 149 179	- - -	1,635 926 1,225	1 - -	1,634 926 1,225
Grand Total	57,970	677	3,276	26,028	19,828	107,779	381	107,398
Percentage	53.8	.6	3.0	24.2	18.4	100		

Subhead L.- Forest Workers' Holdings

Expenditure, £23,424; Income, £21,545.

Expenditure and income show little change compared with the previous year. Details are given in Table L.

During the year three holdings were completed and, after allowing for disposals and transfers to other tenancies the total number of holdings for forest workers amounted to 1485. The average cost of establishing holdings is £499, of which land accounts for £68, and cost of buildings, drainage, water supply, etc. £431.

Table I. - Forest Workers' Holdings

Year ending 30th September.	Expenditure Table I(a, Column B)							Income (Table I(a, Column III))				
	Superior Super- vision and Overhead Charges.	Purchase and Rent of Land and Buildings	New Buildings	Adap- tions.	Repairs	Fencing Drainage etc.	Miscel- laneous	Total	Rents	Other	Total	Net Expen- diture.
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
First decade: 1930-39	\$ 36,894	\$ 103,940	\$ 152,131	\$ 32,302	\$ 3,862	\$ 17,561	\$ 4,120	\$ 389,883	\$ 26,161	\$ 1,254	\$ 27,415	\$ 352,368
Second decade: 1930-39	94,399	108,894	224,221	43,630	46,341	27,967	9,616	565,871	167,966	890	168,856	397,015
Third decade: 1940 1941 1942	8,637 7,766 10,464	3,690 2,661 2,066	15,417 448 1,480	317 5,128 467	5,667 6,246 7,069	1,464 1,108 441	1,395 1,122 1,437	37,587 24,479 23,424	20,303 20,806 21,506	21 99 39	20,324 20,905 21,545	17,263 3,574 1,879
Grand Total	157,160	221,251	446,383	82,044	69,205	48,541	17,090	1,041,244	256,842	2,303	259,145	782,099
Percentage	15.1	21.3	42.8	7.8	6.6	4.7	1.7.	100	99.3	.7	100	

SUBHEAD 2. - INCOME, £721,209

Total income was £144,528 greater than in 1941. Sales of forest produce increased by £112,404 rents and royalties by £7,852 and "other" income from forestry operations by £23,459.

Rents and royalties include £14,044 from the Forest of Dean mines. "Other" income includes sales of livestock £21,827, (an increase of £7,253), and miscellaneous estate, farm and forest receipts £29,295 (an increase of £15,228 of which £7,944 is due to a receipt on account of pension liability for foresters, etc. loaned to the Ministry of Supply). Details are given in Table 2.

Table 2. - Income

Year ending 30th September	Forestry Operations							Grand Total
	Sales of Land and Buildings	Rents and Royalties	Forest Produce	Other	Total	Forest Workers' Holdings (Rents, etc.)	Miscellaneous	
First decade: 1920-29	£ 78,784	£ 274,091	£ 406,594	£ 122,639	£ 862,108	£ 27,515	£ 6,936	£ 916,559
Second decade: 1930-39	76,484	791,032	699,094	203,404	1,770,014	168,856	4,673	1,943,543
Third decade: 1940 1941 1942	1,634 2,481 1,677	92,728 95,193 103,045	432,065 428,374 540,778	24,935 29,081 52,540	551,362 555,129 698,040	20,324 20,905 21,545	782 647 1,624	572,468 576,681 721,209
Grand Total	161,060	1,358,089	2,506,905	432,599	4,456,553	259,145	14,662	4,730,460
Percentage	3.4	28.7	53.0	9.1	94.2	5.5	.3	100

Employment in the Commission's Forests.

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

<u>Summer</u> (Minimum)	<u>Winter</u> (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
1929 ... 2,640	1929-30 ... 3,835
1930 ... 3,130	1930-31 ... 3,850
1931 ... 2,830	1931-32 ... 3,505
1932 ... 2,720	1932-33 ... 3,985
1933 ... 2,845	1933-34 ... 3,735
1934 ... 3,015	1934-35 ... 4,020
1935 ... 3,280	1935-36 ... 4,155
1936 ... 3,720	1936-37 ... 4,565
1937 ... 4,065	1937-38 ... 5,110
1938 ... 4,555	1938-39 ... 5,395
1939 ... 4,320	1939-40 ... 5,155
1940 ... 4,740	1940-41 ... 5,625
1941 ... 4,900	1941-42 ... 5,630
1942 ... 5,420	1942-43 ... 5,550

Camp House,
Promenade,
Bristol, S.

Appendix
Plantations, Year ended 30th September 1942 - England and Wales

Forest	Area planted (acres)						Species planted, including beeting-up (thousands).									
	Afforested		Re-afforested		Totals		Scots and Corsican Pines	Birch and Yew Larches	Douglas Fir	Norway Spruce and Sitka Spruces	Oak	Ash	Beech	Others	Total	
	Conif-ferous	Broad-leaved	Conif-ferous	Broad-leaved	Conif-ferous	Broad-leaved										
Alice Holt, Hants *	-	-	52	-	52	-	100	21	26	46	-	-	1	10	214	
Allerton, Yorks	281	-	-	-	281	-	539	99	-	170	19	-	26	24	932	
Aspleforth, Yorks	-	-	26	-	26	-	29	62	-	25	-	-	10	2	119	
Ampthill, Bedford	-	-	-	-	-	-	1	-	-	-	-	-	-	-	11	
Arkenburghdale, Yorks	16	-	-	-	16	-	-	-	1	177	-	-	-	1	178	
Arundel, Sussex	-	14	-	22	36	66	6	-	2	30	55	3	50	4	149	
Barney, Lincoln	-	10	4	25	39	35	67	11	21	-	93	-	-	-	192	
Barry, Hants.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beddgelert, Carnarvon	73	-	-	-	73	-	-	-	-	138	-	-	-	10	149	
Bedgborough, Kent & Sussex *	-	-	40	96	136	-	214	-	17	2	-	1	-	17	249	
Bere, Hants *	-	-	13	-	13	-	44	-	-	-	5	-	-	1	52	
Bodmin, Cornwall	-	-	26	5	31	3	-	26	-	35	-	-	14	7	79	
Bourne, Lincoln & Rutland	-	-	7	69	76	59	30	-	-	-	61	23	1	5	139	
Brewshill, Berks & Hants	-	-	24	-	24	20	129	-	5	-	-	-	-	8	140	
Brecht, Carnarvon	570	20	-	-	590	20	117	65	56	844	-	-	7	77	1,165	
Brecon, Brecknock	2	-	52	-	54	-	-	1	61	61	-	-	-	13	78	
Brenham, Somerset	5	-	-	-	5	-	1	2	-	19	-	-	1	2	25	
Brighthelm, Isle of Wight	9	7	-	-	16	7	125	5	-	38	-	55	90	7	270	
Bruton, Somerset & Wilts.	-	-	22	-	22	-	-	1	-	15	-	-	-	-	42	
Brynmair, Cardigan	43	-	-	-	43	-	-	-	-	97	-	-	-	-	97	
Burton, Hants & Sussex	-	-	11	-	11	-	-	-	-	97	-	-	100	-	181	
Cato, Carnarvon	-	-	11	-	11	-	61	-	-	-	-	-	-	-	181	
Cannock Chase, Stafford	114	-	27	4	141	5	25	45	5	265	-	-	36	5	541	
Challock, Kent	-	-	16	12	28	12	130	29	-	10	-	-	41	9	214	
Chapelton, Kent	-	-	2	-	2	-	37	-	-	-	-	-	-	16	94	
Chapelton, Cornwall	-	-	-	-	-	-	-	2	-	2	-	-	-	-	4	
Chauquers, Bucks	-	-	-	-	-	-	-	-	-	-	-	-	22	-	22	
Chiddingfold, Surrey & Sussex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	
Chopwell, Durham *	-	-	15	155	170	5	-	46	-	15	6	-	-	1	22	
	1,116	51	367	150	4,905	210	1,706	466	150	1,937	233	67	400	225	5,209	

* Former Crown Woods.

267

4,343

Area planted (acres)

Species planted, including beating-up (thousands)

FOREST.

	Afforested		Re-afforested		Total		Scots and Corsican Pine	Eur. and Jap Larches	Douglas Fir	Norway and Sitka Spruces	Oak	Ash	Beech	Others	Total
	Confi- fers	Broad- leaved	Confi- fers	Broad- leaved	Confi- fers	Broad- leaved									
Clipstone, Derby & Notts	40	-	-	-	40	-	223	-	-	-	-	-	-	-	231
Gloucester, Denbigh & Merioneth	181	-	-	-	181	-	90	7	-	308	-	-	4	8	414
Coed Sarnau, Radnor	72	8	-	-	72	8	9	44	-	85	-	-	14	1	151
Coed-y-Brenhin, Merioneth	235	-	19	-	252	-	175	21	15	505	-	-	6	38	558
Coed-y-Rhadr, Brecon	1	-	-	-	1	-	-	10	-	25	-	-	-	16	49
Collingbourne, Wilts	-	-	4	-	4	-	-	5	7	-	-	-	35	-	45
Combley, Isle of Wight	-	-	-	-	-	-	-	-	-	-	6	6	-	-	12
Crychan, Brecknock & Carmarthen	505	15	22	-	527	15	7	75	8	603	-	-	5	25	721
Cwmwdlon, Cardigan	22	-	-	-	22	-	10	7	-	32	-	-	-	-	49
Omogor, Glamorgan	27	-	-	-	27	-	63	23	-	30	-	-	2	1	108
Cynydd, Merioneth	-	-	-	-	-	-	-	-	-	4	-	-	-	9	13
Dartmoor, Devon	4	-	23	-	27	-	-	-	-	95	-	-	3	10	106
Dean Forest, Glos. Newnarth & Hereford	-	-	155	-	155	97	2	128	18	187	244	14	56	20	689
Delnasee, Cheshire & Dowy, Merioneth & Montgomery	-	-	36	-	36	-	10	-	-	9	-	-	-	-	19
Dunstable, Suffolk	104	-	38	-	140	147	54	7	-	285	-	-	12	11	335
Dyfnant, Montgomery	-	-	143	-	143	7	29	-	-	1	21	-	-	7	70
Dymock, Glos. & Hereford	45	-	19	-	45	-	-	-	-	91	-	-	-	1	92
Eggesford, Devon	7	-	3	-	10	1	-	3	-	2	-	-	-	16	20
Emerdale, Cumberland	108	-	2	-	107	3	-	6	1	19	-	-	-	26	
Remdown, Dorset	-	-	16	-	16	-	11	169	-	86	-	-	1	23	290
Friston, Sussex	-	-	16	-	16	-	42	3	-	2	-	-	-	47	
Gardiner, Wilts	-	-	54	-	54	-	126	-	-	-	-	-	24	-	150
Gledd, Brecon	15	54	-	-	15	34	34	6	4	5	6	25	24	14	150
Glasfynydd, Brecknock	3	6	24	-	27	6	1	4	1	129	1	4	72	13	166
Goodwood, Sussex	58	1	-	-	59	1	2	14	1	126	-	-	3	14	157
Gravellye, Sussex	-	-	8	-	8	3	88	-	-	7	-	-	80	10	168
Greystocks, Cumberland	42	-	-	-	42	-	11	-	-	99	-	-	-	10	28
Grisedale, Lancs.	175	-	-	-	175	-	17	10	-	156	-	-	2	22	128
TOTAL	1455	65	336	159	1771	285	1092	598	55	2653	278	49	317	286	5306
			230	155	1731	X Former Crown Woods.									

Forest	Area planted (acres)						Species planted, including beating-up (thousands)									
	Afforested		Re-afforested		Total		Scots and Corsican Pine	Eur. and Jap Larches	Douglas Fir	Norway and Sitka Spruces	Oak	Ash	Beech	Others	Total	
	Conif-ers	Broad-leaved	Conif-ers	Broad-leaved	Conif-ers	Broad-leaved										
Cwydyr, Carmarvon & Denbigh	211	-	-	-	211	-	38	74	17	554	-	-	-	53	756	
Hafod Fawr, Merioneth & Hafren, Montgomery	308	-	-	-	308	-	-	1	4	11	-	-	-	2	17	
Haldon, Devon	18	-	15	-	33	-	83	15	-	434	-	-	-	16	534	
Halwill, Devon	70	-	94	-	164	-	45	14	-	25	-	-	-	1	86	
Hanssterley, Durham	86	-	70	-	156	-	107	58	-	116	-	-	-	32	204	
Hardnott, Cumberland	171	4	-	-	175	4	22	28	11	150	-	-	-	38	353	
Hartland, Devon	58	2	-	-	60	2	26	8	-	180	-	1	-	14	197	
Harwood, Northumberland	56	-	-	-	56	-	2	-	-	229	-	-	3	16	282	
Haugh, Hereford	56	-	-	-	56	-	2	-	-	124	-	-	-	1	137	
HAY, Hereford	-	-	-	-	-	-	11	12	-	1	-	-	-	24	13	
Hazelborough, Buck&Northants	-	-	-	-	-	-	11	4	-	81	-	-	-	12	119	
Herdsfoot, Cornwall	-	-	8	-	8	1	-	-	-	11	51	-	-	-	74	
Hope, Derby	-	-	-	-	-	-	-	-	-	51	-	-	2	-	17	
Itton, Cornwall	-	-	-	-	-	-	-	-	-	21	-	-	-	-	51	
Kerry, Montgomery & Salop	127	-	66	24	197	24	30	5	-	82	-	-	-	-	21	
Kershope, Cumberland	754	-	127	-	881	-	115	9	-	234	-	-	-	-	117	
Kielder, Northumberland	102	-	69	-	171	-	163	15	4	2008	-	-	-	55	295	
Kings Forest (The) Suffolk	69	7	-	-	76	7	10	-	-	76	-	-	-	-	2195	
Langdale, Yorks	-	-	-	-	-	-	163	-	-	76	-	-	-	3	259	
Loughon, Lincoln	-	-	-	-	-	-	166	8	-	8	-	-	-	5	163	
Manover, Cornwall	-	-	-	-	-	-	10	-	-	3	-	-	-	6	31	
Mantrisant, Glamorgan	-	-	15	-	15	2	-	-	-	20	-	-	-	9	38	
Lydford, Devon	-	-	32	-	32	2	-	11	-	3	-	-	-	6	38	
Lyminge, Kent	-	-	17	-	17	2	-	-	-	71	-	1	-	-	168	
Marden, Sussex	-	-	25	-	25	25	96	4	-	-	2	2	-	-	68	
Margam, Glamorgan	-	-	-	-	-	-	14	-	-	-	-	-	-	-	68	
Methuafal, Montgomery	-	-	-	-	-	-	70	37	-	41	-	-	-	20	158	
Merrill, Somerset	75	1	-	-	76	1	-	-	-	119	-	-	-	1	255	
Mishaelston, Glamorgan	69	-	-	-	69	-	132	1	-	141	-	-	-	20	340	
Misheldever, Hants	-	-	-	-	-	-	71	102	-	16	-	-	-	68	141	
Mosmouth, Merioneth	-	-	-	44	44	44	57	-	-	16	67	30	5	22	124	
Total	2174	14	230	130	2404	144	1299	593	47	4715	120	54	253	519	7185	

2,104

2,334

* Former Crown Woods.

Forest	Area planted (acres)					Species planted, including beating-up (thousands)									
	Afforested		Re-afforested		Total	Scots and Corsican Pines	Burr and Jap Larches	Douglas Fir	Norway and Sitka Spruces	Oak	Ash	Beech	Others	Total	
	Conif- fers	Broad- leaves	Conif- fers	Broad- leaves											Conif- fers
Martimer, Hereford, Radnor & Selwyn	-	-	64	-	64	3	50	-	101	-	-	-	-	154	
Kyberlin, Cardigan	190	-	-	-	190	108	9	3	345	-	-	-	8	475	
Kyngda Dda, Brecknock & Llanowen	30	-	14	-	44	12	48	11	84	-	-	-	31	186	
Newborough, Anglesey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Forest, Hants & Osborns, Isle of Wight	-	-	58	-	58	244	19	22	100	16	-	1	62	464	
Parthurst, Isle of Wight	-	-	-	-	-	5	-	-	-	-	-	-	-	4	
Pembrey, Carmarthen	-	-	32	X /	32	10	-	7	2	-	-	-	-	52	
Quantocks, Somerset	21	-	-	-	21	97	-	2	-	-	-	-	-	102	
Radnor, Radnor	-	-	5	-	5	1	-	-	2	-	-	-	-	3	
Redesdale, Northumberland	-	-	-	-	-	-	10	-	13	-	-	-	-	24	
Rendlesham, Suffolk	235	-	2	-	235	26	32	9	462	-	-	-	1	520	
Rheola, Glamorgan	169	9	5	21	205	71	111	6	504	14	-	-	11	520	
Ringwood, Dorset & Hants	365	5	10	X 5	375	162	54	12	15	-	-	-	46	135	
Roelkingham, Northants	-	2	5	-	5	856	19	42	19	488	-	-	29	855	
Rosedale, Yorks	70	-	-	-	70	42	3	-	45	488	-	-	29	586	
Rothebury, Northumberland	-	-	27	-	27	111	15	-	45	18	-	-	11	172	
St. Gwyno, Glamorgan	248	2	-	-	248	3	106	4	240	11	6	2	4	101	
Salcey, Bucks & Northants	-	-	-	-	-	181	-	-	-	-	-	-	-	551	
Sawerake, Wilts	-	-	45	5	45	-	4	-	-	11	-	6	-	25	
Seardale, Yorks	12	15	-	5	18	-	41	-	-	97	-	38	-	181	
Sedbury, Glos	-	-	-	12	12	-	1	-	5	-	1	-	5	79	
Sheby, Yorks	-	-	-	-	-	1	-	-	7	3	-	-	-	25	
Sherrwood, Notts	-	-	-	-	-	12	-	-	-	5	-	-	-	25	
Silaby, Northumberland	35	-	-	-	35	28	-	-	-	-	-	-	-	34	
Swaffham, Norfolk	-	-	-	-	-	85	6	-	45	-	-	-	-	136	
Swanton, Norfolk	-	45	45	1	15	34	-	22	-	-	-	-	-	86	
Tair Omen, Glamorgan	-	-	-	-	-	25	-	-	6	4	-	2	-	42	
Tarant, Cardigan & Montgomery	57	-	-	-	57	-	-	-	80	-	-	-	-	2	
Theford Chase, Norfolk & Suffolk	59	2	25	42	129	626	-	12	-	219	-	107	1	81	
Total	1,517	48	375	196	1,992	2,738	526	163	2,100	871	9	271	402	7,085	

249
188
1,766
* Former Crown Woods

Forest	Area planted (Acres)						Species planted, including beating-up (thousands)									
	Afforested		Re-afforested		Total		Scots and Corsican Pines	Bur- and Jap Larches	Douglas Fir	Norway and Sitka Spruces	Oak	Ash	Beech	Others	Total	
	Conifers	Broad-leaves	Conifers	Broad-leaves	Conifers	Broad-leaves										
Thornthwaite, Cumberland	29	-	-	-	29	-	4	82	-	-	3	-	-	2	1	95
Tintern, Monmouth & Usk, Brecknock	16	4	103	31	103	31	55	106	17	123	49	1	18	39	391	
Vinehall, Sussex	-	-	28	1	42	5	1	91	-	24	-	-	17	11	161	
Walcot, Selop	-	-	1	-	1	-	55	-	6	6	20	-	20	4	105	
Wareham, Dorset	86	-	8	-	8	-	-	15	-	15	-	1	7	1	45	
Warke, Northumberland	745	-	-	-	745	-	277	-	-	-	-	-	5	10	290	
Wenslover, Bucks	-	-	-	-	-	-	26	13	-	1248	-	-	-	8	1295	
Westbury, Hants	-	-	5	4	5	4	-	-	-	-	-	-	-	-	-	
West Woods, Wilts	-	-	-	14	14	14	26	-	-	-	-	-	40	-	66	
Wigley, Lincoln & Notts.	-	-	30	5	30	5	80	-	-	-	-	-	77	-	157	
Willingham, Lincoln	-	-	54	-	54	-	25	-	-	-	-	-	-	1	24	
Wilsley Down, Cornwall	22	-	-	-	22	-	116	-	32	-	4	-	-	8	160	
Woolmer Hants & Wyre, Hampshire	-	-	-	-	-	-	-	-	-	93	-	-	-	2	95	
Yardley Chase, Bedford & Northants	-	-	-	65	-	65	4	21	-	5	-	-	31	-	61	
Total	898	4	227	146	1425	122	672	326	55	1571	216	5	296	87	3226	
	7070		222	114	1120	118										
TOTAL	7140	182	1555	792	8695A	944A	7507	2247	455	13026	1775	132	1465	1299	27954	

By direct sowing (included above).

A Appendix I shows 8634 acs. Difference accounted for by fractions.

* Former Crown Woods.

Plantations. Year ended 30th September 1942

Forest	Area planted (acres)				Species planted, including Beech (up thousands)										
	Afforested		Re-afforested		Total		Spruce and Pines	Fir and Jar.	Douglas Fir	Norway Spruce and Larch	Oak	Ash	Beech	Others	Total
	Conifers	Broad-leaved	Conifers	Broad-leaved	Conifers	Broad-leaved									
Achnagrasaich	90	-	16	-	90	16	1.49.3	15.26.	-	180.	-	-	-	35.1	209.1
Achnahellach	-	-	-	-	16	-	49.3	26.	-	17.5	-	-	-	19.7	111.5
As	-	-	-	-	-	-	-	-	-	45.	-	-	-	-	45.
Alltallinnach	100	-	-	-	100	-	152.8	-	-	61.5	-	-	-	10.75	224.7
Ardgartan	111	-	-	-	111	-	-	-	-	242.8	-	-	-	-	242.8
Ardrros	-	-	25	-	25	-	27.	22.	-	45.	-	-	-	-	92.
Askrish	139	-	-	-	139	-	11.	69.	-	165.	-	-	-	12.5	255.5
Assion	51	-	-	-	51	-	45.5	49.	-	16.	-	-	-	-	110.5
Auchterroddan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balhlair	-	-	-	-	-	-	5.5	3.	-	2.	-	-	-	-	10.5
Barraldine	-	-	-	-	-	-	-	2.	-	142.5	-	-	-	-	144.5
Bermore	60	-	145	-	80	-	3.	4.5	-	181.	-	1.	-	27.2	144.5
Blin	40	-	-	-	40	-	50.	62.8	-	206.27	-	-	-	15.5	216.7
Blackhall	45	-	34	-	45	-	-	.1	-	59.7	-	-	-	37.25	352.37
Blackhall	-	-	11	-	11	-	-	8.4	-	61.1	-	-	-	5.2	97.05
Blairadam	28	-	21	-	31	-	10.2	2.4	-	69.	-	-	-	19.5	107.1
Borjle	-	-	-	-	-	-	2.4	1.6	-	61.1	-	-	-	5.	70.5
Carten	40	-	-	-	40	-	59.7	33.	-	32.1	-	-	-	1.	74.4
Calvin Edward	-	-	-	-	-	-	-	1.6	-	199.	-	-	-	-	231.
Carradale	115	-	-	-	115	-	-	33.	-	199.	-	-	-	-	231.
Carron Valley	194	-	-	-	194	-	52.	69.	-	211.	-	-	-	19.2	351.2
Castle O'er	175	-	-	-	175	-	37.	3.5	-	327.5	-	2.8	11.	15.815	397.615
Changus	119	-	-	-	119	-	-	12.	-	219.	-	-	-	-	231.
Clashdarroch	15	-	-	-	15	-	4.	8.	-	30.	-	-	-	-	42.
Clashdarroch	151	-	98	-	249	-	160.4	14.5	-	341.4	-	-	-	4.5	520.6
Clauchrie	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clunes	20	-	-	-	20	-	5.	-	-	15.	-	-	-	8.	28.
Corriedoo	42	-	-	-	42	-	1.	15.	-	68.	-	-	-	4.	88.
Craigphadrig	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Craigylinn	115	-	-	-	115	-	109.6	10.4	-	101.6	-	-	-	-	220.6
Craigmearn	4	-	-	-	4	-	1.	.5	-	3.5	-	-	-	6.	11.
Cullbin	-	-	-	-	-	-	80.	-	-	6.	-	-	-	8.	94.
Culloden /	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Plantations, Year ended 30th September, 1942

Forest	Area Planted (Acres)				Species Planted, including Beech-ops (thousands)										
	Afforested		Re-afforested		Total		Pines and Fir	Birch and Yew	Douglas Fir	Norway Spruces and Sitka Spruces	Oak	Ash	Beech	Others	Total
	Cont. fers	Broad-leaved	Cont. fers	Broad-leaved	Cont. fers	Broad-leaved									
Culloden	17	-	-	-	17	10	7.6	15.3	1	50.	-	-	-	9.	-
Dalbeattie	-	-	10	-	10	-	2.2	2.2	-	34.2	-	0.05	-	1.7	60.75
Deer	-	-	-	-	-	-	0.5	2.	-	0.5	-	-	-	9.5	18.5
Devilla	-	-	-	-	-	-	20.	-	-	5.	-	-	-	2.	27.
Dornoch	-	-	-	-	-	-	-	-	-	22.6	-	-	5.8	2.9	29.5
Drummond Hill	11	-	-	-	11	15	126.2	87.6	-	147.8	1.5	1.	10.9	19.6	395.3
Drumochter	93	-	13	-	93	194	4.	11.	-	165.	-	-	9.7	2.	182.
Dundugh	-	-	-	-	-	-	65.	15.5	-	-	-	-	-	-	81.2
Durris	29	-	-	-	29	29	40.	14.	-	-	-	-	3.	-	150.2
Edinburgh	61	-	-	-	61	61	0.2	0.85	-	48.3	-	-	3.	0.2	49.55
Ed. (Pleasden)	-	-	15	-	15	15	26.	1.	-	118.	-	-	3.	6.	154.
Ridgertope	-	-	6	-	6	6	4.5	-	-	11.5	-	-	-	0.5	16.5
Elanreoch	-	-	-	-	-	-	28.	-	-	29.5	-	-	-	6.	63.5
Feartnoch	36	-	-	-	36	36	5.5	-	-	3.	-	-	-	1.5	9.3
Flinton	-	-	-	-	-	-	17.	22.	-	291.	-	-	-	1.	331.
Flunary	-	-	159	-	159	159	17.	22.	-	10.	41.	8.	12.	18.	116.
Fleet	-	-	-	-	-	-	5.	22.	-	109.	-	-	0.5	4.	154.9
Garrachban	-	-	85	-	85	85	18.	23.4	-	28.	-	-	-	6.	33.
Garratogo	19	-	-	-	19	19	1.	4.	-	161.5	-	-	-	9.862	179.162
Glentworth	55	-	7	-	62	62	4.	4.	-	144.	-	-	-	27.	215.
Glentworth	104	-	-	-	104	104	5.	41.	-	81.7	-	-	-	-	81.7
Glen Devon	46	-	-	-	46	46	-	-	-	26.5	-	-	-	2.	40.5
Glenharbour	2	-	-	-	2	2	13.	-	-	167.	-	-	-	30.5	229.5
Glenharbour	79	-	-	-	79	79	26.	6.	-	592.5	-	-	0.9	1.	426.4
Glenharbour	210	-	-	-	210	210	52.	-	-	40.5	-	-	-	-	47.5
Glenharbour	-	-	19	-	19	19	5.	2.	-	97.	-	-	-	8.	108.
Glenharbour	36	-	-	-	36	36	2.	1.	-	158.5	-	-	-	15.4	195.9
Glenharbour	84	-	-	-	84	84	7.	15.	-	20.	-	-	-	2.	28.
Glenharbour	-	-	-	-	-	-	2.	4.	-	55.	-	-	-	-	261.
Glenharbour	102.	-	-	-	102	102	204.	2.	-	-	-	-	-	-	-

Plantations Year ended 30th September, 1952

District	Area Planted (Acres)		Area Re-afforested		Total Area		Plants and Saplings		Species Planted, including Beech (Thousands)		Totals	
	Cont. Fers	Broad-leaved	Cont. Fers	Broad-leaved	Cont. Fers	Broad-leaved	Plants	Saplings	Norway Spruce	Other		
Glenamoy	37	-	-	-	37	-	6.	4.	35.	-	8.4	53.4
Gulistan	12	-	-	-	12	-	15.7	-	99.	-	1.	100.
Inchmearloch	11	-	-	-	11	-	22.	-	11.3	-	-	27.
Inchmallo	60	-	-	-	25	-	39.2	18.	14.4	-	2.	24.
Inverlorn	184	-	-	-	74	-	114.	1.	8.5	-	9.7	61.3
Inverlorn	-	-	-	-	134	-	11.	6.	180.	-	.080	29.888
Inverlorn	-	-	-	-	7	-	5.	-	26.	-	6.	35.
Inverlorn	34	3	7	-	34	3	-	1.	52.7	-	3.5	37.2
Inverlorn	-	-	-	-	4	-	19.	24.6	59.	-	15.	83.2
Inverlorn	-	-	-	-	68	4	59.6	15.7	32.4	-	7.1	114.8
Inverlorn	-	-	-	-	85	-	11.	-	8.56	-	-	117.3
Inverlorn	-	-	-	-	13	29	19.	36.	-	79.	5.	175.
Inverlorn	30	-	13	-	30	13	14.	12.5	24.5	-	5.4	56.4
Inverlorn	-	-	17	-	17	-	8.9	-	25.3	-	.4	34.8
Inverlorn	-	-	5	-	8	-	10.1	17.	6.	-	15.	48.
Inverlorn	45	-	-	-	45	-	18.5	20.	224.5	-	18.1	332.6
Inverlorn	59	2	-	-	59	2	46.1	65.	51.	-	9.4	108.9
Inverlorn	-	-	16	-	16	-	11.	18.3	100.	-	12.	141.3
Inverlorn	539	3	-	-	539	3	78.6	38.	519.4	2.	7.4	659.4
Inverlorn	64	-	-	-	64	-	54.	117.	272.	7.	8.8	458.8
Inverlorn	100	-	-	-	100	-	223.	-	99.5	-	9.5	160.
Inverlorn	271	-	-	-	288	-	9.49	-	-	-	4.4	226.65
Inverlorn	89	-	-	-	89	-	1065.95	114.109	54.	1.5	42.686	1393.782
Inverlorn	-	-	62	-	-	62	1.	20.	78.	-	51.197	130.197
Inverlorn	-	-	-	-	-	-	82.5	-	77.	-	13.2	172.5

Inventory, Year ended 31st October 1942

Forest	Area (anted) (acres)				Crops and plants				Species (anted, including Beech) (thousands)													
	Afforested	Broad- leaved	Conifer fers	Heath fers	Broad- leaved fers	Conifer fers	Broad- leaved fers	Grass and herbs lines	Hart and Junc. varieties	Rough grass etc.	Norway and Siberian spruce	Oak	Ash	Beech	Others	Total						
Marangie																						
Neville																						
Newcastleton	64	-	-	100	-	-	-	-	4.	10.	9.7	-	-	21.	197.	5.8	-	-	-	10.5	35.5	
Newryle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147.	
North Strath	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.45	
Ordiequish	-	-	-	-	-	-	-	-	4.	9.7	4.	-	-	3.	5.	-	-	-	-	-	9.	47.
Portvohair	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Queen's	17	-	-	-	-	-	-	-	0.3	5.2	2.5	-	-	55.	-	-	-	-	-	-	10.5	13.7
Ratagan	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-	-	-	-	-	-	-	7.6	65.1
Rosarie	40	-	-	-	-	-	-	-	156.45	1.	5.	-	-	1.5	-	-	-	-	-	-	6.	164.45
Roselale	21	-	-	-	-	-	-	-	-	5.	-	-	-	182.	-	-	-	-	-	-	2.5	139.
Saddell	57	-	-	-	-	-	-	-	26.5	59.3	-	-	-	86.6	-	-	-	-	-	-	12.	131.6
Salem	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	-	-	-	-	15.	46.9
Soco tuncro	-	-	-	-	-	-	-	-	-	-	-	-	-	2.	-	-	-	-	-	-	2.	2.
Slavochale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Laggan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Strath	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strathgrye	394	5	-	-	-	-	-	-	101.7	128.5	39.5	-	-	165.	37.5	-	-	-	-	-	14.5	14.5
Tullach	-	-	-	-	-	-	-	-	6.	59.5	-	-	-	5.	-	-	-	-	-	-	3.941	599.041
Turkland	-	-	-	-	-	-	-	-	192.2	-	-	-	-	2.	-	-	-	-	-	-	0.649	64.649
Turkland	62	-	-	-	-	-	-	-	40.	10.2	7.	-	-	62.5	-	-	-	-	-	-	4.35	159.35
Tullisfourie	109	-	-	-	-	-	-	-	7.	60.	14.	-	-	258.	-	-	-	-	-	-	1.	113.5
Tindalsburn	377	-	-	-	-	-	-	-	-	60.	-	-	-	673.	-	-	-	-	-	-	-	265.
Twiglases	28	-	-	-	-	-	-	-	-	14.	-	-	-	38.	-	-	-	-	-	-	-	733.
Wanshope	80	-	-	-	-	-	-	-	58.4	1.2	-	-	-	84.7	-	-	-	-	-	-	6.7	52.
Widethugh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	151.
GRAND TOTALS	5460	31	1276	2476	47	6726	6326	78	4298.69	1680.26	32.85	9530.22	128.2	53.38	82.73	856.237	1661.485					

APPENDIX (CONT'D)

PLANTATIONS - YEAR BEGINS 30th SEPTEMBER 1943 - 31st DECEMBER

Forest	Area planted (acres)					Species planted, including beeting-up (thousands)								
	Afforested		Re-afforested		Total	Scots and Corsican Pines	Eur. and Jap Larches	Douglas Fir	Norway and other Spruces	Oak	Ash	Beech	Others	Total
	Coni-fera	Broad-leaved	Coni-fera	Broad-leaved										
England and Wales	7,070	189	1,244	746	928	7,507	2,267	455	15,088	1,773	162	1,465	1,398	27,824
Scotland	5,450	51	1,498	47	78	4,287	1,650	33	9,339	128	55	83	856	18,641
TOTAL	12,520 ²	240	2,742	793	1,006 ⁰⁶	11,794	3,917	488	24,427	1,901	217	1,548	2,254	46,465

Memorandum to Mr. Coggins.

111/43.

Commissioners' Annual Report - F.Y.42.

One copy of the typed report contains an error in Table IIa, page 15. The worded headings to cols. 2-4 are wrong; they apply to cols. 1 (which has been left blank) to 3, and col. 4 should be headed "Education". As the worded headings have been typed in separately it is possible that other copies of the Report have been correctly typed. Please ascertain whether your copy is correct and, if necessary, make amendments as above.

Please also make amendments to this report as shown in the attached sheet. The total area planted given in the Appendix plus replanting after fire equals the gross area planted.

The Assistant Commissioner, Scotland, has notified the following amendment to his Report for F.Y. 42:-

Appendix I.

Replacements.

	Afforested		Re-afforested		Total		
	Cfs.	Hws.	Cfs.	Hws.	Cfs.	Hws.	Total
North	-	-	200	-	200	-	200
Total	45	-	263	-	308	-	308

Secretary.
6. 9. 44.

Statement of Amendments to be made to copies of Twenty Third Annual Report for year ended 30th September 1942.

Page 2 Last paragraph. Area planted in 1942 - 16,746 acres

Page 6 First paragraph. Planting and sowing 16,746 acres

Page 22 Plantations Area replanted after damage by fire - 700 acres

Pages 36/45.

Appendix - Plantations

Forest	Area Planted (acres)					
	Afforested		Re-afforested		Total	
	Coni- fers	Broad- leaved	Coni- fers	Broad- leaved	Coni- fers	Broad- leaved
<u>England and Wales</u>						
p.36 Bedgebury	-	-	40	-	40	-
Bere	-	-	-	-	-	-
Bramshill	-	-	-	-	-	-
Brecon	2	-	-	-	2	-
Buriton	-	-	-	-	-	-
Total for p.36	1116	51	247	159	1363	210
p.37 Dovey	104	-	36	-	140	-
Dunwich	-	-	3	7	3	7
Friston	-	-	-	-	-	-
Total for p.37	1435	65	296	155	1731	220
p.38 Gwydyr	141	-	-	-	141	-
Total for p.38	2104	14	230	130	2334	144
p.39 Parkhurst	-	-	-	1	-	1
Rheola	169	9	5	5	174	14
Thetford Chase	59	2	25	42	84	44
Total for p.39	1517	48	249	188	1766	236
p.40 Westbury	-	-	-	-	-	-
Total for p.40	898	4	222	114	1120	118
Grand Total - E.& W.	7070	182	1244	746	8314	928
<u>Scotland</u>						
p.41 Achnashellach	-	-	-	-	-	-
p.42 Eilanreach	-	-	-	-	-	-
Fiunary	-	-	-	-	-	-
Glenhurich	-	-	-	-	-	-
p.44 Grand Total - Scot.	5450	31	1276	47	6726	78

p.45.

Appendix - Plantations - Summary.

Country	Area Planted (Acres)					
	Afforested		Re-afforested		Total	
	Coni- fers	Broad- leaved	Coni- fers	Broad- leaved	Coni- fers	Broad- leaved
England & Wales	7070	182	1244	746	8314	928
Scotland	5450	31	1276	47	6726	78
Total	12520	213	2520	793	15040	1006

