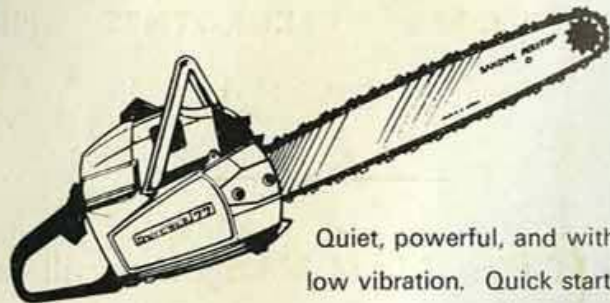


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MESSAGE

from

THE RT. HON. WILLIAM ROSS,
M.B.E., M.P.

Secretary of State for Scotland



Since 1919, when the Forestry Commission was established, tremendous strides have been made in British forestry and it is fitting that the Commission should now stage this Forestry Exhibition to illustrate the many aspects of the great national asset which has been created in the past half-century.

The Forestry Commission now has nearly one and three quarter million acres of woodland. This is considerably more than the area of Perthshire or Devon; and it is being steadily increased—in Scotland alone about 50 square miles of new plantations are being established annually.

Fifty years is not a long time in forestry, but the Forestry Commission is already producing a great volume of timber. Every year sees a substantial increase, not only in current production but also in the increment of growth in the young plantations which will supply our timber-using industries, old and new, in the years that lie ahead. Both present and future generations will have good reason to be grateful for the help which the Commission is giving the economy of the countryside, especially in the sparsely peopled uplands throughout Great Britain, whose vitality is so vulnerable to the drift of population to the cities and towns.

No appraisal of the development of forestry would be complete without a full recognition of the contribution which the private woodland owners and the timber trade have made towards it. I am therefore glad that the activities of the private sector of the industry will be fully represented in the Exhibition, side by side with those of the Commission.

This Jubilee Exhibition is being held in Scotland where the Commission's expansion is most marked, but it is dedicated to forestry throughout Great Britain. My colleagues the Minister of Agriculture and the Secretary of State for Wales, who are respectively responsible for forestry in England and in the Principality, are fully associated with me in welcoming the Exhibition both as evidence of fifty years' progress and as promise of future achievement.

William Ross

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BOUGHT AND SOLD

FOREWORD

by

MR L. A. W. JENKINS

Chairman, The Forestry Commission



It is my privilege to welcome you to our Jubilee Year Exhibition where, in the fine surroundings of the Bush Estate so generously placed at our disposal by the Edinburgh Centre of Rural Economy, you may see something of all aspects of forestry in Britain.

In our own exhibits we in the Forestry Commission set out to tell you about our many activities—from the nurseries where the seedling trees are born through to the final felling and marketing of fully grown timber. Featured also are the Commission's work in Research and the development of new techniques, wild life conservation and control, amenity and the establishment of recreational facilities for your use. Our full range of publications cover all these features—and many more. These may be found in the Publications Tent.

But forestry in Britain does not mean only the work carried out by us. Home timber production by private woodland owners is responsible for an appreciable proportion of the nation's total and this fine achievement by the private growers is demonstrated by their Organisations in their own group of exhibits.

Another large group of exhibitors are those commercially interested in forestry practices or products; these range from machinery manufacturers to paper makers; tractors to "instant" trees; the chemical industry to dealers in recreational equipment.

The fourth group of interesting and informative stands has been provided by organisations with forestry or countryside interests—such as the Department of Agriculture and Fisheries, the Countryside Commissions, the Nature Conservancy, youth and voluntary bodies and camping and caravan clubs—to name but a few. Also for your enjoyment you will find demonstrations of forestry practices, two cinemas, a large picnic area, forest quizzes and much else of interest. Amongst these please do try to visit the school forest plot where the pupils of Penicuik School have, as part of normal school studies, made from a wilderness a delightful woodland which they now maintain. Such forest projects by schools are actively encouraged by us and are becoming more and more general.

May I also draw your attention to the many special Forest Weeks and Exhibitions which are being arranged in all parts of Britain during this summer. You will find details of these in this catalogue.

At this time, when without their efforts we would have nothing to celebrate, I must pay warm tribute to all those whose loyal work for the Commission, both in the past and in the present, has been responsible for the latter's growth from the first plantings in 1919 to a forest estate of 2 million acres which will yield a production of over 1 million tons of timber in this our Golden Jubilee Year.

Not least I would thank all those members of the Forestry Commission whose sound planning and sheer hard work have made possible this large Exhibition and our other special Forest Week activities.

It is the hope of all my colleagues and myself that you will not only enjoy your visit here but that you will also take away with you some appreciation of the great progress which forestry has made in Britain in the last half century.

Leslie Jenkins

VISIT OF H.R.H. PRINCESS ALEXANDRA

The Hon. Mrs. Angus Ogilvy

The Forestry Commission are proud to play host to Her Royal Highness Princess Alexandra when she pays a special visit to the exhibition on Friday, June 6th, arriving at about noon.

On arrival, the Princess will be entertained to luncheon by the Chairman of the Forestry Commission—Mr. Leslie Jenkins—and the Forestry Commissioners.

Princess Alexandra will later visit the Forestry Commission section of the exhibition, which will be followed by a motor tour of the rest of the exhibits, probably making a number of stops en route.

During her visit which will last approximately four hours, visitors will have ample opportunity of seeing the Princess, and visitors are asked to kindly conform to the directions of Police and Stewards in order that Princess Alexandra and her party have free access on their route, so making her visit the more pleasant.

A large number of children from local schools will be there to give the Princess a real Scottish welcome.



H.R.H. Princess Alexandra will visit the Forestry Commission Exhibition

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Roots at home . . .

Today's Army is a highly mobile force, any part of which can be moved to anywhere in the world at any time at the shortest possible notice. Essentially, though, each unit has its roots at home in the U.K. The home base is very necessary for the maintenance of the unit overseas and for preserving the close link between men and their families. Soldiers today have the best of both worlds, with secure roots at home, whilst enjoying the adventure of overseas life.

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GENERAL INFORMATION

The following information will be found useful to visitors in finding their way around the various attractions, and the services and facilities available.

There are two Exhibition Information Kiosks—one near the main entrance and the other in the Trade Exhibitors' area.

Visitors are requested to refer to these Kiosks for general information about the Exhibition. Specialised information in relation to the Forestry Commission may be obtained from Stand No. 6 (Information Department Exhibit) in the Forestry Commission area.

PUBLIC TRANSPORT

Eastern Scottish Omnibuses will leave from St. Andrew's Square, Bus Station (Central Edinburgh), at frequent intervals throughout the day, stopping close to entrance, all buses will be marked "To The Forestry Exhibition".

If coming by private car or coach, refer to adjoining map. Approach roads and car parks will be well sign-posted and stewarded.

TIMES OF OPENING

Thursday, June 5th,
10 a.m. to 6.30 p.m.
Friday, June 6th,
10 a.m. to 8.30 p.m.
Saturday, June 7th,
10 a.m. to 6.30 p.m.

ADMISSION CHARGES

First day (5th)—Adults 10/-,
Children (under 14) 2/6.
Second and third day—
Adults 5/-, Children 2/6.
Car Park: 2/6 per car, 10/-
per coach on all days.



"AA" SIGNS WILL INDICATE ENTRANCES

LOST CHILDREN

Will parent visitors please advise their children that if, perchance, they manage to lose you (or you lose them), they should go to the nearest Stewards (who all wear armbands), who will arrange to have them taken to the Secretary's Tent in the Forestry Commission area, and a message will be given over the Public Address System.

"THE FOREST" CINEMA

This cinema is situated in the Kellog Hall (Stand 24) to the south-west of Bush House (please refer to Exhibition plan on centre pages).

Admission is FREE, and the three colour films being shown—continuous performances except for a lunchtime break—are very recently made, and well worth seeing.

They are:—

"THE CHANGING FOREST", "RETURN TO LOCHABER" and "LOCH LOMOND".

EXHIBITORS' CINEMA

Admission to the Exhibitors' Cinema is also FREE, and this is in a special marquee (Stand No. 25) situated just to the south of Bush House.

Here visitors may see some of the thirty different films being shown by various organisations, Trade Exhibitors, etc., and performances are continuous except for a break for lunch. Times of showing and titles will be exhibited at entrances to both cinemas.

DOGS

It is better not to bring dogs, but visitors with dogs (or other pets) are advised that animals will be admitted only on leash, and must remain on leash while in the Exhibition area.

PHOTOGRAPHY

No commercial photography is permitted within the Exhibition precincts, except by official permission. This does not apply to *bona fide* Press, T.V. and film photographers working on behalf of their firms, or to visitors taking photographs for strictly amateur purposes, and not for sale or publication.

Name of officially appointed photographer may be obtained from the Exhibition Organisers.

WILDLIFE

The main wildlife exhibit will be found in the Forestry Commission area, to the rear of Stands Nos. 1 and 2.

Wildlife may also be seen in the enclosure behind the Nature Conservancy Stand (No. 53) and there are also ducks and geese on the pond in the Pine Garden. Icelandic horses will be found at Stand No. 62.

REFRESHMENTS

The main refreshment marquee is situated approximately between the Non-Trade Exhibitors' area and the Trade Exhibitors' area. Also you will find a number of small kiosks for the sale of ice cream, minerals, snacks, etc.

TELEPHONES

There are four Public Telephones available for the use of Exhibitors and visitors.

Two are situated in the Forestry Commission area, near the Press Tent, and another two are near Stand No. 80 in the Trade Exhibitors' section.

TOILETS

Ladies' and Gentlemen's Toilets are situated on the south edge of the Pine Garden, also near the main Refreshment Marquee, and also at the east and west sides of the Trade Exhibitors' area.

FIRST AID

The First Aid Caravan—manned by the St. Andrew's Ambulance Association—is situated near the Secretary's Office in the Forestry Commission area.

CHILDREN'S CORNER

A Children's Corner, organised by the W.R.V.S., is situated adjoining the Pine Garden near the main entrance, where young children may be left to enjoy themselves under supervision.

There is no charge for this service.

BARBECUE

Have you ever tasted barbecued venison sausages? If not, you should pay a visit to the Barbecue which is situated in the Pine Garden. The delicious aroma should help you find your way.

PICNIC SITE

Although there are first-class catering arrangements available at the Exhibition, at reasonable charges, some visitors may wish to bring their own lunch basket and have a family picnic.

You are invited to use the Pine Garden area for this, but do please keep clear of the area designated for spectators to the fly-casting demonstration. No fires may be lit, and please remember to deposit your waste paper, etc., in the litter baskets provided.

BANKING FACILITIES

These are available for visitors and exhibitors during exhibition hours, represented by the following:—The Bank of Scotland, The Royal Bank of Scotland, The British Linen Bank, and The Clydesdale Bank.

SEEDLINGS

A limited supply of conifer seedlings will be on sale to the public in the *Research* Exhibit (Stand No. 3) each day.

FORESTRY REUNION TENT

This tent (Stand No. 51) is for the use of all those who are (or have been) professional foresters, at any level, and whether from this country or from overseas.

LOST AND FOUND

Articles found should be handed into the Secretary's Tent and Control Centre (Stand No. 9), where articles lost may also be applied for.

PRESS TENT

This is in the Forestry Commission area and is marked Stand No. 13. For use of *bona fide* Pressmen only.

STEWARDS AND FORESTRY COMMISSION OFFICIALS

Official Stewards are all Forestry Commission employees; many of them will be in uniform and all will wear identifying armbands.

They are there to assist you, if they can, so please do not hesitate to make use of their services. All Stewards are in touch with the Control Centre via radio.

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BRIEF DESCRIPTIONS OF FORESTRY COMMISSION EXHIBITS

CREATING OUR FORESTS (Stand No. 1)

Some nations, such as Canada, U.S.S.R., Germany and the Scandinavian countries, had natural forest areas varying in size from large to massive—sometimes covering hundreds of square miles—to start with. And all provided free, by Mother Nature.

In this country we had no very great forest areas to start with and those we did have, many years ago, were mostly cut down for use at the time, with no thought of re-planting for the future. So it should be borne in mind that Britain's Forestry Commission had virtually to "Start at Scratch" in building up a forest enterprise from 1919 onwards, and World War II, with the resulting heavy demands for homegrown timber, set the project back considerably. This is the reason Britain has to import over 90% of her timber requirements.

This exhibit will show the achievements of the Forestry Commission over the last 50 years in creating a forest enterprise with more than 1½ million acres of plantations, and it will highlight the technological and silvicultural advances that have been made since 1919 up to the present time.

The progress of our planting programme will be illustrated by a variety of visual methods, and this will lead through to show various stages in the nursery work, planting process, etc.

Focal point of the display will be a large central exhibit dealing with the ten major species of tree used by the Forestry Commission, the dominant feature being a globe of the world indicating seed origins, cones, seedlings, timber specimens, locations and percentage use of such species.

RECREATION AND WILDLIFE (Stand No. 2)

The aim of this exhibit is to illustrate to the public how the Forestry Commission implements its policy of providing recreational areas wherever possible, for everyone to enjoy, and also to help preserve the indigenous wildlife of this country.

Although of course the main object of the Commission is to provide timber for the nation's needs, it has been recognised that people need attractive areas, where they can relax, enjoy themselves and breathe good clean air, especially those who live in the large cities. And it is fortunate that forestry—besides providing timber, also provides the very valuable additional asset of recreational areas.

The first exhibit is a large map which shows the locations of our Forest Parks, and many of the recreational opportunities which now exist in the forests of the U.K. Visitors will then see by a series of photographs some of the main aspects of recreation available, which lead on to an example of one of our "Prize" areas—the wildlife centre at Grizedale.

The largest section in this exhibit will demonstrate how forestry can enhance the landscape. It is perhaps not commonly known that the Forestry Commission has the services of a world-famous landscape architect to ensure that our forests look attractive, besides being useful.

Children will especially love this exhibit, as a large section of it will be devoted to a Wildlife Enclosure in which there will be animals such as deer, badgers, fox, etc., besides a number of birds and even fishes. There will also be a Wildlife Quiz, etc.

RESEARCH (Stand No. 3)

This exhibit, as its title indicates, will portray in an imaginative and "digestible" form, the many and varied ways in which the Research Branch of the Forestry Commission assists and guides the whole of the nation's forest industry. Unless an industry, or indeed any enterprise, keeps moving forward in every way, it goes into reverse. There is no standing still.

Our Forest Research establishment near Farnham, Surrey and in Edinburgh (a completely new one is now being built at the Bush Estate here), are continuously engaged on—to put it simply—finding better and more progressive ways of producing timber by using all of today's technological and scientific aids.

The visitor on entering this fascinating exhibit will discover that the research story starts in pre-glacial times, which influenced our various soils, right through the whole background of events which are studied and researched upon in the never-ending search to find better ways of growing trees—more of them—bigger and quicker and of better quality, and so on.

If one imagines a seed is simply stuck in the ground and a tree is cut down at the end of "X" years, the contents of this exhibit will show there is a lot more to it than that. Did you know, for instance, that we even use wind tunnels to measure the effect of high velocity winds on trees?

PRODUCTION (Stand No. 4)

The earliest plantations established by the Commission are only now approaching maturity; the most recent will be almost twenty years old before they begin to yield marketable timber. Production of timber is therefore only in the early stages of development, but in the past two decades has grown steadily, and during the next fifty will progress with ever-increasing speed.

These developments are illustrated both outside and inside the Production exhibit. Outside there are a series of timber columns representing to scale (1:1 million) the annual rate of growth of the Commission's trees from 1919 to 1989. Inside the tent changes in actual and forecast production up to 1990 are illustrated, with emphasis on the current rate of felling and the main markets served.

For the maximum benefit from this rising production to be obtained, the development of an efficient system of harvesting is essential, and in recent years there have been rapid advances in this field, leading to the doubling of productivity. This is demonstrated by a series of models showing scenes of harvesting operations in progress in the forest, past, present and future. An important part of the harvesting operations is the provision of forest access roads, and this aspect is covered by panels of photographs to show their planning and construction.

What is the importance of this increasing production of timber? Probably few realise the extent to which timber is used in the everyday life of Great Britain in one form or another. At present barely a tenth of this comes from home forests, and the rest has to be imported at great expense to the country. On one side of the tent it has been arranged to show, in the form of saw logs, the quantity consumed annually per household with illustrations of the wide range of forms timber can take in ordinary use, from paper and packaging to rafters and rayon.

INTO THE 1970's (Stand No. 5)

The descriptive title "Into the 1970's" is an apt one for the Services To Management Branch, for it is one of the main functions of its job to look to the future developments of our forest operations—to plan, to train, to educate our personnel in technical matters, to look after our establishment of men and material, economics, safety and all manner of details which go towards making the nation-wide forest enterprise a well oiled machine.

A great deal of thought and hard work has gone into making this a really "With it" exhibit where visitors will see, by means of a wide range of models, equipment, active demonstrations, photographs, movie film and other devices, some of the many important services this branch renders to our combined operations.

After visiting this exhibit you will know what a Skyline is, as distinct from the non-existent Sky Hook! You will find out how to "Sned" your own trees, should you have any to sned, or you can learn how to carry out tree injections. You may also learn something about Metrification.

Various graphs and panels are also used to illustrate such things as how many trees to plant to the acre—which species—how much profit and how we are planning for the next decade, and further.

INFORMATION (Stand No. 6)

The main function of the Information Branch of the Forestry Commission is to keep our "Shareholders"—by which we mean all you taxpayers—as informed as possible on how the Commission manages the nation's forests. And this is done either directly through our own publications, lectures to various organisations, exhibitions, etc.—or indirectly through the Press, T.V. and radio, and in a number of other ways. Of course the Branch has a number of Internal functions as well, within the nation-wide complex of the Commission.

What you will see in the Information Branch Exhibit is in fact a small exhibition all on its own, which correlates all the other exhibits into one general theme of the Commission's activities, past and present.

All this is done by means of a superb collection of 24 photographic panels attractively illustrating many facets of the world of Forestry; this combined with location maps, charts, flashing lights etc. The visitor may be surprised to learn that in the 30 minutes (approx.) it takes to go round the Information Exhibit, no less than twenty 5-ton lorry loads of timber have been grown by your forests.

The staff of the Information Branch exhibit—in common with those at the other Forestry Commission exhibits—will be pleased to answer your questions.

PUBLICATIONS (Stand No. 7)

The Publications Branch Exhibit leads directly off the Information tent, as Publications and Information are complementary one to another, and have much in common. Every year the Publications Branch of the Commission issues an average of twelve different new publications, large and small, and revises a further 36 previous publications.

At any one time, there are about 150 different books and pamphlets available to the public, on the many subjects relating to State and private forestry. Many of these have full colour illustrations, and all are in continuous demand.

Some of these publications are free for the asking, and the other more expensive ones must be sold to offset production costs. Among the "Best-sellers" in the priced range are "Know your Conifers" and "Know your Broadleaves" and in the free range "Camping In The Forest Parks" is far and away the most popular, with an issue of 15 thousand per annum.

This exhibit will have on display and for sale or distribution the complete range of Forestry Commission publications and the staff on duty here will be pleased to help and advise in any way possible.

AMATEUR RADIO STATION

Stand No. 48

A special Forestry Commission exhibit which—although situated outwith the Forestry Commission area—will be of great interest to many.

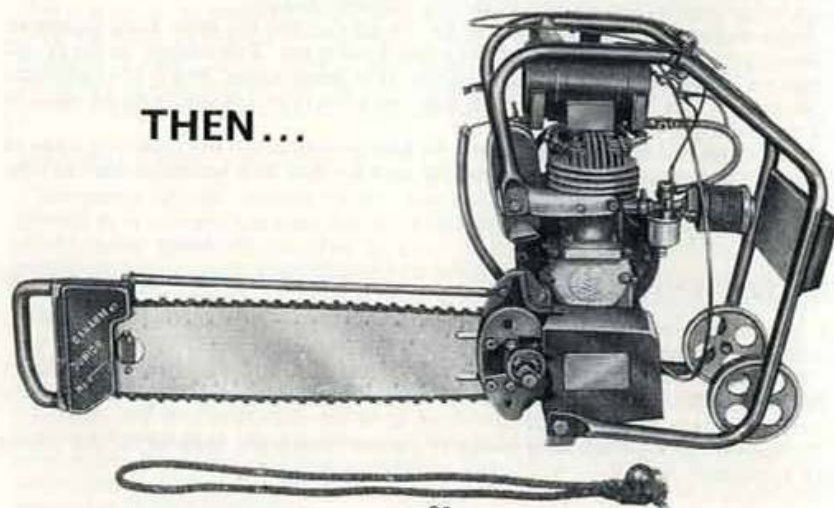
This is a small Amateur Radio Station (Stand No. 48), operated by a Forestry Commission District Officer, which will daily transmit and receive to other Amateurs in different parts of the World.

A special call sign has been allocated by the Postmaster General for use during the exhibition.

DANARM

sincerely congratulates
THE FORESTRY COMMISSION
on
50 YEARS OF FORESTRY

Since the earliest years of the powered chain saw,
Danarm has served the industry by continuous
product development.

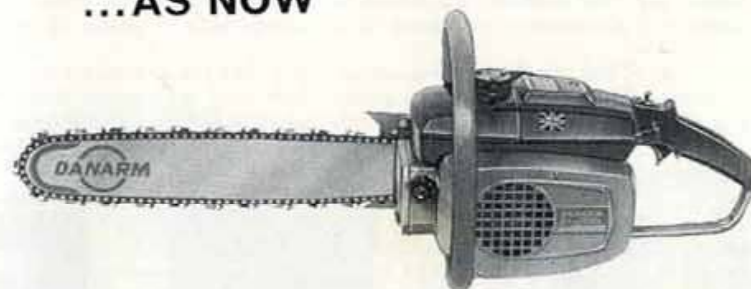


28

DANARM

Today, through some 350 Dealers, Danarm Chain
Saws continue to offer outstanding value for light
weight, performance and product quality.

...AS NOW



Danarm, the only British Chain Saw Manufacturers invite you to

JUBILEE EXHIBITION
STAND No. 180



**DANARM LTD, SLAD ROAD,
STROUD, GLOUCESTERSHIRE,
Telephone STROUD 2451**

A UNOCHROME INTERNATIONAL COMPANY

29

A Mobile Branch of THE BRITISH LINEN BANK is in attendance at the Forestry Commission Jubilee Exhibition



FULL BANKING SERVICES AVAILABLE

DESCRIPTIONS OF SOME OF THE STANDS TO BE SEEN IN THE TRADE AND NON-TRADE SECTIONS

AGRICOLA CHEMICALS LTD.

Stand No. 83

'Chemicals for Forestry Practice' is the theme of the Agricola Chemicals Limited exhibit.

Kilbest M for cut stump treatment and Kilbest 50E for scrub clearance are 2,4,5-T compounds. Kilbrush is a 2,4,5-T/2,4-D mixture for brushwood and general weed clearance, and Kilsure 50E is the heather and ling weedkiller based on 2,4-D.

Agricola Nexion formulations of Bromophos, the new safe residual insecticide, is introduced to the forestry field for the control of mosquitoes, flies, etc.

AGRICULTURAL AIR SERVICES LTD. and

STEWARTRY FARM CHEMICALS LTD.—Joint Exhibit

Stand No. 78

At this stand, visitors will see the DJINN helicopter manufactured by SUD-AVIATION is powered by compressed air blade-tip ejection from a PALOUSTE IV turbo-generator.

It sprays, fogs, and dusts; in standard configuration it carries 44 gallons of chemicals.

With no tail rotor, kerosene as fuel, and the large reserve of rotor kinetic energy, the DJINN has the highest safety factor of any helicopter in use today.

AIRDRIVE LTD.

Stand No. 173

On display here will be the tough, long wheelbased Land-Rover 100, which is an ideal vehicle for a mobile compressor unit of this capacity, with four-wheel drive to take air power to sites normally inaccessible to conventional two-wheel drive vehicles.

The rotary compressor with a free air delivery of 100 cfm at 100 psi, is installed completely beneath the floor level, leaving unimpeded load carrying space.

The compressor is driven through the centre P.T.O. and the design is such that direct top gear is used with the vehicle engine running at only 2300 rpm.

A front mounted hydraulic or mechanical winch can be fitted as well as a full length hardtop and a number of other standard Rover accessories.

B & D ALEXANDER LTD. & W. C. SLOCOCK LTD. (Joint Exhibit) Stand No. 89

Over the last few years the demand for semi-mature trees for use by local government authorities and other bodies has grown to tremendous proportions. The combined stand of Walter C. Slocock Ltd., Goldsworth Nurseries, Woking, Surrey and B. & D. Alexander Ltd., Ardenapple Nurseries, Helensburgh, Dunbartonshire, will show some of the finest examples of the smaller size of semi-mature tree. Both companies are now growing these extensively and with the increased use in diverse projects such as motorways, new towns, recreation, factory areas and parks the stand should prove interesting to anyone concerned with the planning of the above. The joint companies are interested in long term planning with customers.

Expert advice will be available at the stand.

ALLMAN PATENTS LTD.

Stand No. 95

This Exhibitor will feature the following items:

Transplant Boom consisting 5 ft. spray boom with six flexible pendants complete with nozzle for attachment to tractor mounted sprayer for the application of chemicals in nursery stock.

'Intaro' inter-row chemical weeder incorporating Plant Protection 'Vibrajel' nozzle for the application of herbicides in nursery stock.

'Sprayro' inter-row chemical weeder attachment incorporating Plant Protection 'Vibrajel' nozzle for fitment to tractor mounted sprayer for the application of herbicide.

'Uniro' incorporating Plant Protection 'Vibrajel' nozzle manually operated for the application of herbicide in nursery stock.

Arbogards Mk. B1 and Mk. 11 for ring weeding small trees in forestry.

'Pharos' Pumping Unit for the application of diesel oil and 2,4-T.

Knapsack Engine Driven Mistblower, used extensively in forestry.

High Lift Wheel Equipment on Ferguson 135 tractor.

Congratulations from The Association of TAR DISTILLERS

MANUFACTURERS OF

CREOSOTE

The widely used,
robust wood preservative
as used by
The Forestry Commission

ASSOCIATION OF TAR DISTILLERS

9 Harley Street, London, W.1.

ANGLO SWEDISH EQUIPMENT LTD

Stand No. 82

This firm will show the **BM-VOLVO** range of timber handling equipment, the most popular and extensive in use throughout the world.

The three machines on demonstration are **LM 218** Front Wheel Drive, **LM 640** Four Wheel Drive, and **LM 840** Four Wheel Drive.

All machines are supplied complete including the steel impact tested safety cab. Over 70 attachments available for use with any loader. These include timber grabs, fork lift, pulp clamp. The changeover only takes two minutes at the outside.

ARMCO LIMITED

Stand No. 117

Manufacturers of Galvanised Corrugated Steel Drainage Structures.

Helcor Pipe in diameters from 6" to 15"

Rivetted Pipe in diameters from 18" to 72"

Multi plate Pipe (5'0" to 26'0" diameter)

Arch (6'0" to 17'0" spans)

Pipe Arch (6'1" to 20'7" spans)

These structures are strong, lightweight and simple to install. They require only compacted earth bed and fill to carry heavy vehicular loads.

They can be perforated for subdrainage. Alternative—
Helcor Pipe in diameters from 6" to 15" Rivetted Pipe in diameters from 18" to 72"
Multi plate Pipe (5'0" to 26'0" diameter); Arch (6'0" to 17'0" spans); Pipe Arch (6'1" to 20'7" spans).

HEADQUARTERS SCOTLAND (ARMY)

Stand No. 34

The stand depicts many aspects of the close collaboration which exists between Forestry Commission and the Army.

The Army is indebted to the Commission for training facilities and for the use of the Commission's land in connection with the work of Army Youth Teams.

These teams, amongst many other activities, assist young people from the cities to experience the joys of the open air life and introduce them to the many opportunities available for outdoor pursuits.

ARROW CONSTRUCTION EQUIPMENT LTD.

Stand No. 198/199

Arrow Construction Equipment Ltd., Blyth, Northumberland will be exhibiting their range of "Target Trailers" both tilting and fixed platforms.

The tilt model for plant and machinery transportation: standard drawbar with tilt deck dimensions, 18 feet by 8 feet and 10½ tons payload or the 5th wheel (artic) models with tilt up to 22 feet, loading decks up to 28 feet and payload to 19½ tons.

The semi-platforms with their peripheral frame construction at 22, 24 or 30/32 G.C.W. with full flush decks up to 40 feet and built to a high standard of engineering. Modifications or attachments being available for most haulage applications.

THE ASSOCIATION OF TAR DISTILLERS

Stand No. 85

The Association of Tar Distillers, 9 Harley Street, London W.1. provides a technical service for users of Creosote throughout the country, supported by the Coal Tar Research Association, and individual Tar Distillers.

Creosote's powerful wood preserving qualities have been recognised and specified for the last 50 years by the G.P.O. and Electricity Authorities for all their poles, and by the Railways for all their sleepers. Farmers and Estate Owners obtain unlimited life from timber correctly treated with Creosote.

BANK OF SCOTLAND

Stand No. 68

This exhibit will comprise the Bank of Scotland Mobile Unit, which will provide a comprehensive banking service during exhibition hours, and officials and staff extend a warm invitation to customers and non-customers alike to avail themselves of the facilities offered while attending the exhibition.

BARFORDS OF BELTON LTD.

Stand No. 124

BARFORDS OF BELTON will exhibit both existing and new products in their range of agricultural machinery, combined with well established products from their building plant range.

BARFORD MULTI-PURPOSE HYDRA DITCHER—with self contained hydraulics designed for easy attachment to the three point linkage of most tractors which have a power take off. It will dig and clean drainage ditches and, having its own self contained hydraulics, can be fitted with a variety of hydraulically motored cutting attachments, namely for the purposes of bank and scrub cutting, hedge cutting and grass trimming. A beet grab and manure fork are available for this most versatile and powerful machine.

HERT REVERSIBLE PLOUGHS—covering a complete range from single to four furrow models. The plough being exhibited is the single furrow OMNIUM incorporating several patented features, the greater of which is that although being a normal reversible plough, it is capable of turning over a whole plot, headlands included, right up to the borders. This is accomplished with a second reversion axle which allows the plough to be offset behind the tractor wheel, facilitating the aforementioned capabilities. This plough will be shown attached to a B.M.C. 4/25 Tractor.

BARFORD "BISON" FOUR-WHEEL DRIVE DUMPER—is well known to the construction and building industries for its rugged design and "go anywhere in any conditions" dependability. This two ton capacity dumper is supplied with a choice of diesel engines and with either gravity or hydraulically controlled tipping mechanism. When the going becomes firm the rear drive easily disengages to considerably lessen the wear on the mechanics and tyres.

Also on exhibit will be items from the range of Wacker equipment.

BATTENHURST DEVELOPMENTS

Stand No. 195

The feature of this exhibit will be "The Litter Picker", a well engineered tool for the clearance of rubbish. With it anyone can clear up vast amounts of tins, bottles, paper, rags or broken glass without having to stoop down or touch anything dirty or unpleasant.

The Litter Picker only weighs a few ounces, but is amazingly tough and is in current use on many picnic areas, public open spaces, car parks, caravan sites and forest and nature trails. With the current cost of any labour, the Litter Picker will pay for itself in a matter of hours, and with it the task of rubbish collection becomes so much easier that people like using it, and the result is a cleaner and more attractive recreation area for everyone."

THE BOWATER ORGANISATION

Stand No. 65

To commemorate the Jubilee Year of the Forestry Commission, the Bowater Organisation have adopted the theme "How Bowaters Serves British Forestry".

Featured on the stand are displays illustrating the various techniques employed in the manufacture of newsprint, paper, corrugated sheeting, building boards and panels. Also on show is a model of one of Bowaters newsprint machines which depicts the stages wood goes through before it is made into your morning paper. There will also be a purpose-built cinema for showing a film illustrating newsprint production at one of Bowaters' Mills in the United Kingdom.

JAMES BOWEN & SONS LTD

Stand No. 148

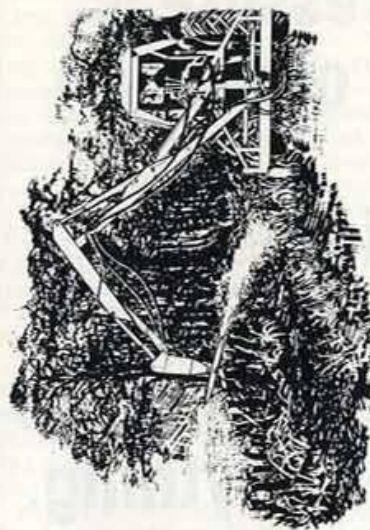
James Bowen & Sons Ltd., will be exhibiting several machines such as they supply to the Forestry Industry, an Industry which they have specially catered for over many years. The range of equipment on their stand will include:

International H65B Paylogger for high speed high production timber extraction.

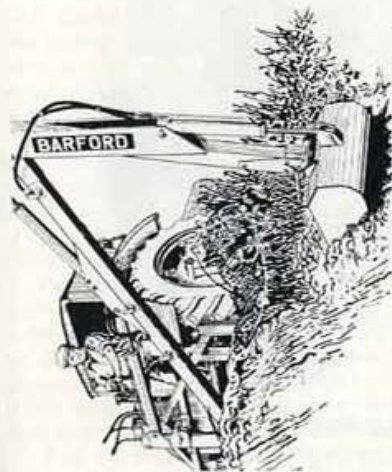
International Hough Payloader equipped with log grapple capable of carrying 2 tons of logs at 20 miles per hour for fast vehicle loading.

International TD8 Crawler Tractor, long-wide Model for soft ground conditions. 2.0 lbs. psi. ground pressure.

International 614 Tractor with 200 cfm Compressor suitable for rock drilling.



Don't
miss
it!



manure and root-loading. Buy it with the attachment you need now - add others as you need them. Fits all tractors 45 h.p. and over with live p.t.o., and 3-point linkage. Powered by independent hydraulics - fast and positive in operation. Send for illustrated leaflet and prices.

Progressive farmers in all parts of the world are cutting costs with the Barford Hydra-Ditcher, the power tool with a range of attachments to meet the farmer's every need - from ditch cleaning and shaping to drain cutting and trenching - from scrub and hedge-cutting to

BARFORD MULTI-PURPOSE HYDRA-DITCHER

These are just some of the quick-change attachments available



BARFORDS OF BELTON LIMITED - BELTON - GRANTHAM - ENGLAND - Telephone Grantham 2431 - Telegrams BABEL Grantham

Low ground pressure is vital to tractor operation in forestry.
The low flotation BRISTOL TAURUS has all the advantages; it goes anywhere, does anything. Try it & see for yourself.



BRISTOL-SAUNDERS SALES LTD.
THE BUTTS, WORCESTER
 Telephone: Worcester 28651 Telex: 33400

Thwaites 3 ton Alldrive Dumper articulated 4 wheel drive, ideal for rough bad ground.

Lee Magnum 3000 lb. Fork Truck, 4 wheel drive, all wheels same size. Pivot start. Ideal for uneven and soft yard or site conditions.

THE BRITISH DEER SOCIETY SCOTLAND

Stand No. 56

One of the published aims of The British Deer Society is "The promotion of proper and humane methods of management, conservation and control of deer". The Forestry Commission itself states that "There is much more to forestry than growing trees and producing timber. The conservation of wild life, including . . . deer . . . is of great concern to the Forestry Commission."

This exhibit is intended to emphasise the importance both to the Commission and the Society of a united policy—in the common interests of trees and deer.

THE BRITISH WOOD PRESERVING ASSOCIATION

Stand No. 84

This is a scientific and technical advisory body dealing with all aspects of Timber Preservation. The display consists of treated timber exhibits, photographs and wall charts. A free advisory service and leaflets will be available.

The Association is completely impartial in the advice it gives and aims at making known the advantages of using preserved timber in the interests both of the consumer and the national economy.

BURTONWOOD MECHANICAL HANDLING CO. LTD.

Stand No. 158

This Company are the sole concessionaires United Kingdom and Eire for S.K.B. Cranes.

The S.K.B. 7500 7K2 Crane is capable of lifting 7 tons at a radius of 5 feet from the kingpost, or 1 ton at 24 feet radius. Fully equipped for forestry work it has two hydraulic extensions of 3 feet 7 inches each; double, 10 cylinder, SKB pump; 400° rotation; jockey seat and high level controls; rotator and timber grab.

Maximum boom length available is 33 feet 6 inches, with a load capacity of 12 cwt.

THE CAMPING CLUB OF GREAT BRITAIN & IRELAND

Stand No. 57

The Camping Club of Great Britain and Ireland has, as one of its objects, the promotion of an increased number of sites with improved facilities for the Camper in the United Kingdom.

The Club display at this stand demonstrates the variety of camping units in general use by its Members, and invites the visitor to learn more of its activities and advantages of Membership.

THE CARAVAN CLUB

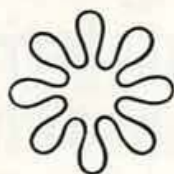
Stand No. 58

The premier organisation in the world for touring caravanners is the Mayfair based Caravan Club which was founded in 1907 and is now the largest organisation in the world of its kind. Its total membership at the moment stands at nearly 70,000. Ten years ago there were 21,000-odd members and five years later the figure was 34,000.

The Club offers all the services expected of a national organisation, including the largest network of private touring sites in this country for the caravanner. The Club's most important consideration when setting up sites is that they are located discreetly, with maximum, if not absolute, screening, and their size should be such that the impact of caravanners at the height of the season is not incompatible with the surroundings. Experienced landscape architects are employed for these reasons.

This sites policy is undoubtedly reflected in the fact that two Club sites have recently received Civic Trust Awards; one of them was the 7½ acre Yellowcraig caravan site for a 120 caravans, near Dirleton, East Lothian, Scotland. It shows how an area of flat ground could be discreetly utilised for caravanning. Six-foot high crescent shaped banks were created from the soil excavated from a widened roadway left to develop wild and flower undisturbed, linking up with the existing stands of sea buckthorn. These banks effectively screen and at the same time protect the caravans.

Free information can be obtained at the Club stand on all aspects of caravanning from the Club's press and information officer, who will be in attendance throughout the exhibition.



THE CLINTON DEVON ESTATE

(Stand No. 22)

offer their congratulations to

THE FORESTRY COMMISSION

*and all their staff, both past
and present, on doing a magnificent
job for*

BRITISH FORESTRY

during the past

50 YEARS

THE CLINTON DEVON ESTATES
ROLLE ESTATE OFFICE
EAST BUDLEIGH, BUDLEIGH, SALTERTON
DEVON

THE CLINTON DEVON ESTATES

Stand No. 22

The Clinton Devon Estates, which are situated over 400 miles from Edinburgh, lie in East and North Devon, where conditions for tree growth are on the whole very satisfactory. The Estate's woodlands extend to some 4,200 acres, all of which are dedicated under the Forestry Commission's Dedication Scheme and are managed as a commercial concern.

This exhibit covers some of the different aspects of forestry and woodland management on a private estate as achieved over the past fifty years, and as practised at the present time. The exhibit is divided into six sections: silviculture and establishment, management, amenity, protection, harvesting and utilisation.

GEORGE COHEN MACHINERY LTD.

Stand No. 159

This firm will show—for the first time in this country—the latest model of the HIAB range of lorry loaders... the HIAB 178... specifically designed for forestry work.

The base, loader body and inner boom of this machine are identical to those of the well tried "177" Model. But the "178" also incorporates a hydraulic outer boom giving 5.3 inches extension and a total outreach of up to 27 ft. 3 inches.

Complete with top-seat controls, timber grapple end and hydraulic rotation, the HIAB 178 will be shown rear-mounted on a Bedford KM 6 x 4 chassis: wheel base 199 inches: gross weight, 22 tons, specially supplied to meet the requirements of the Forestry Commission.

George Cohen Machinery will also be exhibiting the HIAB 177—the workhorse of the forest industry—mounted on a Volvo FB 88 timber carrier with timber trailer.

COLCHESTER TILLAGE LTD

Stand No. 160

This firm will feature their range of TICO HYDRAULIC TRUCK CRANES, and COTIL MOBILE CRANES.

There are four TICO cranes with capacities from 22½ cwts. to 3 tons. All cranes have the exclusive features of inbuilt hydraulic winch for hauling goods from inaccessible sites and working up to 100-ft below ground level, and 360° continuous slewing enabling the short cut to a new lift always to be taken.

The model K550 Crane has been specially developed for the timber industry with capacities of 2200 lbs. at 16½-ft. boom length and 1650 lbs. at 21-ft. boom length, and is available with column top controls with operator's seat and special rear mounting enabling it to be fitted and removed in a few minutes.

The model K500 is a general purpose crane with capacity of 3 tons, equally suitable for general haulage, timber or construction engineering work. A choice of booms are available from 17½-ft. to 27½-ft. long. A full range of hydraulic attachments including rotator, timber grab, clamshell bucket and orange peel grab can be operated by the K500.

All COTIL Mobile Cranes are extremely versatile units designed for high capacity work, combined with exceptional stability, under the most arduous conditions, and keep working all the time, lifting, loading, towing trailers, winching, shunting and doing 1001 other jobs. All cranes have inbuilt hydraulic winches and 360° continuous slewing for fast, versatile operation.

The model CT.74 is a rugged, heavy duty 1-ton unit with 75 hp. diesel engine and is ideal for timber work.

The model CT5004 is especially suitable for working in difficult terrain with its 113 hp diesel engine and four wheel drive. Maximum capacity is 50 cwts, fully mobile, with a range of booms from 17½-ft. to 27½-ft. long. The CT5004 Crane is suitable for operating hydraulic rotator and timber grab in addition to a full range of grabs and buckets.

The COTIL CT500. Mobile Crane is similar in design to the CT5004. but with 2 wheel drive and 75 hp diesel engine.

Whatever your De-barking problem

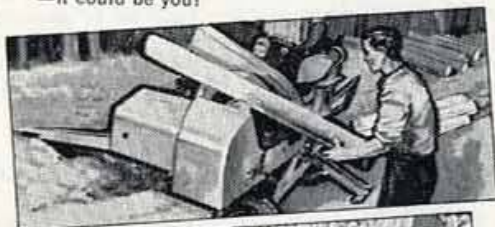
there is a

CUNDEY
DE-BARKER

taylor-made for you!

SEE US ON
STAND 111

Every De-barking problem is different—different size and type of timber, different working conditions, different output requirements etc. This is why there is no one answer. And this is why the Cundey range of De-barkers stand supreme. Proved over many years in all the main timber producing centres, they are available in a wide range of models and outputs—each one tailor-made for someone with a specific problem—it could be you!



Type 'ER'
Still popular where conditions favour it



Type 'ERC'
High output engine driven machine



Type 'TRCP'
Tractor driven machine. Can be one man operated when fitted with push-off gear

★ All British made

★ Available with 8-20 h.p. Diesel or Electric power units
★ Tractor operated models (available with automatic push-off gear)

★ Spares readily available

CUNDEYS LTD., ALFRETON, DERBYS.

COOPER, PEGLER & CO. LTD.

Stand No. 93

At this exhibit there will be a display of spraying equipment comprising—"Policlair" 4-gallon Knapsack Sprayer, "Falcon" 2-gallon Pneumatic Sprayer, "Politec" Tree Guard for shielding small trees whilst weed spraying around the base, "Policone" Spray Shields for protecting very small trees whilst weed spraying, "C.P.40" Knapsack Power Mist Blower, "Minar" High Pressure Power Pump, Pressure Control Valves, Nozzles and other Accessories.

CUNDEYS LTD

Stand No. 111

Exhibits on show at this stand will comprise:—

MARK 12 ERC DE-BARKING MACHINE. This is our latest type continuous feed de-barker fitted with the 12½ hp Petter twin cylinder engine and capable of handling up to 10" diameter material with output varying from 80 to 160 hoppus feet per hour depending on average log diameter and quality of timber.

MARK TRC DE-BARKING MACHINE. This is exactly the same type of de-barker, but arranged to be driven off the tractor P.T.O. and carried on the hydraulic arms. It will fit on any of the standard size of tractor and is capable of handling up to 12" diameter but front ballast weights are necessary on the smaller tractors.

TYPE 1 DOUBLE DRUM WINCH. This winch carries 400 yards of 5/16" rope on one drum and 800 yards on the other. It fits on the hydraulic arms of the larger type of agricultural tractor, driven by the P.T.O. shaft, with ballast weights needed on the front of the tractor. Using the skidding cones shown, there is no need for equipment to be erected in the extraction rack other than a return pulley at the end. No tractor anchorage is needed, other than lowering the winch to the ground by the hydraulic arms, and changing from one extraction rack to another is done very quickly.

There is also a type 2 available complete with tower, safety cab, and reeving gear for use when conditions will not allow full ground skidding.

SPLITTER SAW. This machine has been developed for the rapid production of split mining timber, up to 10" diameter, and can be carried on the hydraulic arms of the larger agricultural tractor when provided with front ballast weights. It is intended for forest use and can split 10—6" x 6" logs per minute. Electrically driven, fixed machines are also available.

DANARM LTD.

Stand No. 180

Danarm Limited will be exhibiting their full range of chain saws together with four new introductions to the Danarm range of products:—

The Danarm hedge cutting attachment which converts the Danarm 55 chain saw into a competent hedge trimmer.

The Danarm Cultivator, an exceptionally compact and powerful machine which, with attachments, can be converted to a lawn mower, bulldozer, wheelbarrow, plough, rake, or harrow.

The Danarm Motorised Knapsack Sprayer, a new and adaptable knapsack type of machine for spraying, dusting and flame throwing.

The Danarm/Grow Gear hedge cutter self contained petrol engined with 30" reciprocating cutting blades.

DOLMAR CHAIN SAW SALES LTD.

Stand No. 181

Joint Stand with FEARNCO LTD.

Dolmar's stand is bound to be of great interest to all foresters as on display will be a range of the famous 'DOLMAR' chain saws to suit all requirements.

It is worthy of note that Dolmar Chain Saws have put up great performances at the Zweisee International Championships, and are becoming increasingly more popular with professional sawyers as their reputation spreads.

These chain saws—backed by years of performance proving—now incorporate even more time and money-saving features. Packed with power, the Dolmar is light and easy to use, and with their world-wide service facilities, rank among the finest saws in the world.

THE CHAMPION SAW



DOLMAR Chain Saws are Champion Saws.

This was proved again at international contests in 1968. Champions chose:

Type „CA“, 6 HP at Zweisel, Germany
Type „CC“, 8 HP at Santa Cruz, Bolivia
Type „CC-Super“, 9 HP at Graz, Austria
Type „CT“, 12 HP at Remiremont, France
Type „CT“, 12 HP at Big Bear Lake, Calif., USA

Do as the Champions do—depend on DOLMAR

CHAIN SAWS—GASOLINE AND ELECTRIC DRIVE.

HYDRAULICALLY FED SWING SAWS.

RIP SAWS AND AIR SAWS

EARTH DRILLS, BRUSH CUTTERS, FOREST TOOLS.

DOLMAR

CHAIN SAW SALES LTD.
18 ABBOTSINCH ROAD
GRANGEMOUTH

TELEPHONE 0324-4-3771

Telegrams: Dolsaws. Grangemouth

BRANCHES AT PERTH AND INVERARAY

THE DORMAN SPRAYER CO. LTD.

Stand No. 96

On display will be the Dorman High Pressure Pumping Unit. This machine is supplied complete with 30 gallon hot-dipped galvanised tank and high pressure piston pump driven either by electric motor or 4-stroke petrol engine.

Equipment includes high pressure hose and adjustable hand gun; Pressure Relief Valve and Gauge incorporated in pipework. The complete machine is mounted on a 3-wheel chassis and the chassis is fitted with a towing handle.

Dorman "Pharos" Pressure Unit. This is a pumping arrangement as used by The Forestry Commission and consists of a sturdy chassis on which is mounted a centre feed hose reel to take 400 ft. high pressure solvent hose; a Diaphragm Pump driven by 4-stroke petrol engine and supplied complete with tool box and shoulder carrying straps. The unit can be supplied for 2 or 4 man working, as required.

ECHO CONCESSIONAIRES

Stand No. 190

On display will be the range of "ECHO"-brand chain saws manufactured by Kyoritsu Noki Co. Ltd., Tokyo, Japan. The range includes:—

Model CS-60S—a light-weight (14.3 lb. power-head weight) general purpose saw with a 62 cc. engine. Cutting sizes from 12" to 24". Oregon cutter-bar with Oregon Series 70 chain is fitted as standard.

Model CS-100—a powerful logging and felling saw, with a dry power-head weight of 19.8 lb. and a 103 cc. engine. Cutting sizes from 20" to 32". Oregon cutter-bar and Oregon .404" Micro-Bit chain is fitted as standard.

Both the above models have automatic-plus-manual-overide chain lubrication, with largely independent functioning of either system as a guard against lubrication failure.

A general feature of the KYORITSU-Echo range is light weight combined with robustness and reliability.

ECONOMIC FORESTRY GROUP

Stand No. 79

Stand 79 celebrates E.F.G.'s 10 years in the field of forestry investment, management and contracting, where it is the largest private forestry organisation in the United Kingdom.

Prominence is given to the Group's investment in a wide range of the most up-to-date machinery in the country. The new low ground pressure TD8 Crawler was developed by E.F.G. in conjunction with the Forestry Commission, James Bowen & Sons Ltd., Edinburgh, and T. T. Boughton & Sons Ltd. of Amersham.

E.F.G.'s landscaping services are also shown, including hydraulic seeding and general landscaping of all types, including the supply and planting of trees and shrubs and the transplanting of semi-mature trees. A 'live' demonstration by E.F.G. (Landscaping) Ltd. will be seen at the Tree Moving Stand.

The Group's indoor display covers the specialised land acquisition and investment services and the comprehensive management service which covers all aspects of land use. The Group is actively demonstrating that sound forest management can be combined with the best farming practice and with the best sporting development. The sporting aspect is jointly presented by E.F.G. and the Eley Game Advisory Service.

FORD MOTOR CO. LTD.

Stand No. 149

Displayed on the Ford stand are the Ford 5000, 4000 and 3000 tractors. Unique know-how has enabled superior strength, power and versatility to be combined in these up-to-the-minute units. Equipped to meet the most exacting demands, the power range extends from the 75 b.h.p. 5000; 62 b.h.p. 4000, to the 47 b.h.p. 3000. And this power is backed up in each case by high torque characteristics.

Already working on forestry work all over the country, the range of builds available with factory-fitted options and accessories means that your tractor can be built to meet the demands of the many varied types of implements and attachments, including winches and other P.T.O.-driven equipment. Ford light industrial front end loaders specifically for these tractors are available.

Call on The Ford Force

Visit the Ford Stand and
find out about our new Highway Tractors
and Industrial Loaders.

Get the power behind the name



Also on display is the Ford 13-six excavator loader, an industrial machine equipped with 4500 lbs. lift capacity front loader, and 13 ft. 6 ins. off-set excavator. Standard equipment includes a 6 x 4 manual reversing transmission, powerful disc brakes, and integrally designed cab. A centre pivot model is also available.

FOREST MANAGEMENT LTD. FOREST MANAGEMENT (SALES) LTD FORESTRY CONTRACTS LTD.

Stand No. 71

The three organisations represented at this stand offer services as Forestry Consultants and Forest Investment Advisors, including complete Forest Management Services.

On the Forestry Contracts side, services are offered in General Silvicultural Contracting and the supplying of Fencing Materials, Power Saws, Forest Nursery Machinery and Finnish Extraction Equipment made by Motor Kone Oy of Helsinki.

FOREST PRODUCTS RESEARCH LABORATORY

Stand No. 164

At this stand there will be Demonstrations of mechanical stress grading, and of the F.P.R.L.'s new continuous side dresser for band saws.

Displays illustrating other aspects of the Laboratories' Work and Advisory Service. Staff are available to help with timber technology problems.

FOREST SEED ASSOCIATION

Stand No. 19

The object of the Association is to raise the productivity of plantations in Britain by encouraging the use of seed and plants of known origin and superior inherent quality. The exhibit informs the visitor about the origins of tree seed used in Britain and shows him how to obtain the best possible seed and plants.

GOODALL'S PATENTS LTD.

Stand No. 101

The Goodall Stand will exhibit a full range of Swyft-tyte high tensile wire fencing including both plain wire fence and fences designed especially to carry rabbit proof netting.

Special attention will be given to the latest range of deer proof fencing including plastic coated fencing.

The Swyflex range of tools and droppers will also be on display.

E. C. HALLAM & CO.

Stand No. 176

The new Hallam Hydraulic Power Grader Type SB/B2 is strongly constructed and reasonably priced. The Grader is easily coupled to any make of tractor within 5 minutes and becomes a completely integrated unit operated by one man, utilising the existing hydraulic system for operating the double acting rams of the grader, giving power control of all operations at all times. The economic advantage of being able to use normal tractors for motor grading ability will be clearly seen. Other features of the Grader are: a newly designed movable control bank to enable the operator to work with his left or right hand, the control bank being at a constant distance from the operator at all times, and a new visible guide control unit enables the operator to be trained in the minimum of time to produce consistently first class work.

L. HATHAWAY LTD.

Stand No. 94

In addition to the well known Mark IV and 40/40 models which have been proved for Forestry applications over many years, a new range of Floating, Irrigation and General Purpose Pumps are exhibited.

These models have already aroused great interest in many countries due to the low capital cost and negligible maintenance.

For larger output the new 60/120 pump combining light weight with high performance is also exhibited.

The full range of Hathaway accessories for Portable Fire Pumps have been increased with the addition of the new jet spray nozzle, and the 1" instantaneous coupling, and these are also shown on our Stand.



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HIGHLANDS & ISLANDS DEVELOPMENT BOARD

THE CROFTERS' COMMISSION—Joint Exhibit

Stand No. 29

The joint exhibit by the Highlands and Islands Development Board and The Crofters' Commission, depicts the range of their activities, and their impact upon communities in the Highlands.

Focal point of the Board's exhibit is a model depicting a Highland Strath in which different land uses—forestry, farming, tourism and industry—have been integrated.

The area involved is hypothetical, but the model has been built by the Board's staff to show what can be achieved in the Highland location.

The Crofters' Commission have as their theme the crofters' remarkable accomplishments in improving housing conditions and in the reclamation of land. These are illustrated by photographs which show, too, how the crofter has come to terms with industry.

N. S. HINDLEY & CO. LTD.

Stand No. 109

On display here will be the ISACHSEN tractor double drum winches (No. 3 model and the 'Kombi'), the single drum 'Handy' winch and, it is expected, the new Isachsen Rotary Snow Plough.

In conjunction with Messrs. LUDVIK ISACHSEN MEK. VERSTED A/S of Larvik, Norway, it is intended also to show a No. 3 double-drum winch with standard equipment for high-lead skidding, and other interesting items.

HOLMAN BROTHERS LTD.

Stand No. 137

For many years Holman Brothers Limited has supplied compressed air equipment to the Forestry Commission for quarrying, secondary drilling and road-making purposes. This equipment has included tractor-mounted down-the-hole drilling rigs, tractor-mounted and portable rotary screw air compressors, hand drills and breakers.

A selection of this type of Holman equipment will be on display at the company's stand.

HORTICULTURAL TRADES ASSOCIATION

Stand No. 20

The Forestry Trade Group of the Horticultural Trades Association will display a map showing the location of the member firms which specialise in forest trees and tree seeds.

Many members also supply ornamental trees and shrubs and undertake contract work.

The Group provides a clearing office to which customers can apply if they have difficulty in obtaining the trees they require.

HYETT ADAMS LTD.

Stand No. 97

This firm will have on display their range of HUSQVARNA Chain Saws, Brush Clearing Saws, and portable Power Cutter Saws.

Also on display will be BUSHMAN forestry tools, and a range of protective clothing for forestry workers.

ICELANDIC HORSES

Stand No. 62

Pony trekking is now one of the more popular forms of out-door recreation in Great Britain. Those who have once experienced the delight of riding with a group of friends over hills and through woodlands, far from the noise and frustration of car-ridden roads, become enthusiasts for life. Some of the most delightful and splendid rides in the country are along the excellent tracks and roads laid out by the Forestry Commission. There, whether surrounded by the tall trees of well established forests or on paths where still young plantations allow magnificent views of moorland and mountain, one really feels that the bustle and confusions of our mechanised civilisation have been left behind.

The ponies shown here are all Icelandic Horses. Originally taken to Iceland by the Vikings (no horse has been imported into Iceland for nearly 900 years), they still have the two additional gaits which add so much to the comfort of the rider, however

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JOHN A LOW, Manager
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At the Forestry Commission Jubilee Exhibition we are providing an on-the-spot banking service for exhibitors and visitors and cordially invite you to make use of this facility.



inexperienced he may be. Like all trekking ponies, they are safe and easy to ride, even for the complete novice—though they will give the experienced rider as good a ride, up to thirty or forty miles a day, as he could desire. These particular ponies are from Woodhouselee Stables, about a mile away from the Exhibition.

JAMES JONES & SONS LTD.

Stand No. 107

A wide variety of logging machinery will be shown at this stand including felling, extraction, loading and road transport equipment. Extraction vehicles displayed: the Highland Unimog, the Highland County, and various forest conversions of standard tractors.

All are equipped with high output Igland winches with pulling capacities from 3 to 8 tons on 1, 2 or 4 drums, some hydraulically operated. Ancillary equipment for extraction vehicles on show also includes the Highland Bear grapple loader, Viking half-tracks (some with hydraulic assistance), back acting diggers, front logging blades, various trailers, high lead and cable crane towers.

In addition to the Highland Unimog forest tractor, other versions of the Unimog are displayed for: road making, drainage and other estate duties.

KUNZ ENGINEERING LTD.

Stand No. 112

We shall demonstrate a "BRUKS" Mobile Pulp Chipper, Type 850 which produces high quality pulp chips of uniform size, with clean cut ends and insignificant deformation. The machine is equally suitable for the chipping of logs up to 9" diameter, of any length or for the conversion of sawmill waste such as slabs, edgings and off-cuts into valuable chips for pulping, fuel or for further rechipping in chipboard manufacturing. Clearance waste in felling areas can be chipped on the site and chips delivered directly to users. The machine will take full trees with branches. Drive is from the power take-off of a 40-50 HP tractor or other power unit. Chips are blown by the chipper rotor through a 10" diameter pipe up to 13 ft. directly to a trailer.

This mobile machine is one of a large range of Chippers manufactured by Messrs. Bruks Mekaniska A.B. of Arbra, Sweden.

F. W. McCONNEL LIMITED

Stand No. 128

McConnells are showing their mobile saws and slew-loaders. The 30" blade mobile saw (14D/CR) has a 14 h.p. air cooled diesel engine; the 36" blade model (20/RSU/36) has a 20 h.p. engine. Both have swinging tables for cross cutting; complete units are mounted on a trailer fitted with large pneumatic tyres for easy manhandling over rough ground and towing at normal trailer speeds.

The McConnell Power Arm Model S/12 Super-C Farm Industrial Digger is fitted in under 10 minutes to the 3-point linkage of most modern tractors. It can be fitted with both trenching and ditching buckets and can be converted to a slew-loader by pinning an additional arm to the Power Arm frame.

The McConnell Power Arm Model S/12 Double-D Digger-Loader is similar to the Super-C Digger but has Instant Weight Transfer; its own p.t.o. driven pump and built-in oil reservoir; two-lever hydraulic control unit; hydraulic selection of jib pivot height and has additional power. It is supplied, for forestry work, with a loading arm with a log grab, and hydraulic rotator for fast loading of trucks and trailers in forest rides; reduces the time of handloading 10 tons from over 1 1/2 hours to 50 minutes.

MARTIN, BLACK & CO. (WIRE ROPES) LIMITED.

Stand No. 99

Steel Wire Ropes have many varied uses in Forestry, from excavators to Choker Slings, and from winch ropes to rubber protected slings. The Martin-Black exhibit shows both by photographs and by actual application, a wide selection of these uses, along with a photographic tour of Speedwell Works where both high tensile wire and the steel wire ropes are made.

Martin-Black manufacture all constructions and sizes of steel wire rope for all Industries, and have Depots with stocks in London, Gateshead, Nottingham, St. Helens (Lancs.) and Bridgend (Glamorgan).



The tree of Scottish life is in the care of the National Trust for Scotland. Help it to grow by becoming a member.

Write:
 5 Charlotte Square Edinburgh 2

MAYFLOWER AUTOMOTIVE PRODUCTS LTD.

Stand No. 175

The **Mk. III Winch** exhibited has been fully approved and tested by the Rover Company and is capable of genuinely accepting a line pull of 5,000 lbs. power pay-in and out through the vehicle Gear Box. (In fact it is tested to 9,000 lbs).

It takes only six hours to fit to all Land Rovers, except Forward Control vehicles.

The **Patented Ground Anchors** are also Rover Approved and are tested and used extensively by the Post Office and large Authorities for portability and efficiency.

The **Free-Wheel Hubs** are well known to all Land Rover owners and will save about 11% on fuel consumption.

MILBRO (Millard Brothers Ltd).

Stand No. 203

The firm of **MILLARD BROTHERS LTD.**, of Motherwell, Lanarkshire, are perhaps better known by their famous "MILBRO" Trademark.

Their exhibit cannot fail to attract the attention of (nearly) every male who visits the exhibition, for it is by courtesy of this firm that world-champion fly caster Peter Anderson will be giving daily demonstrations of his skill. These will take place at the pond in the Pine Garden near the Forestry Commission display.

Nearby the pond will be situated the MILBRO stand, where a full range of fishing tackle will be on display, together with a selection of other sporting goods.

MINISTRY OF PUBLIC BUILDING & WORKS

Stand No. 204

The Ministry of Public Building and Works has taken an active part in promoting bad weather building techniques for several years. Some equipment developed for this purpose can be readily used in other industries. We are exhibiting a range of modern protective clothing, with examples of temporary shelters and site amenities together with the latest in portable site lighting.

THE NATIONAL TRUST FOR SCOTLAND

Stand No. 32

The National Trust for Scotland has a special interest in forestry. Not only has it many acres of forest in its care, but many of its woodlands, such as those at Culzean Castle in Ayrshire and Crathes Castle on Deeside have the special problems of being areas of great amenity value. The Trust's exhibit is intended to show not only something of its forestry interests, but also of its activities in other directions, particularly concerning its countryside properties such as Ben Lawers, Glencoe, Kintail or the Torridon mountains.

NATURAL ENVIRONMENT RESEARCH COUNCIL

Stand No. 43

This stand will show the Organisation of Forestry and Woodland Research and Development in Britain. It will consist of an illustrated description of the role of the Natural Environment Research Council in co-ordinating the work of the different agencies undertaking forestry and woodland research, in keeping this field of research under review, and in advising of the provision of financial support for such research in universities and other organisations.

THE NATURE CONSERVANCY and the SCOTTISH WILDLIFE TRUST—Joint Exhibit

Stand No. 53

The Nature Conservancy's exhibit shows a 40 foot diorama of the wooded island of Inchcailloch on the Loch Lomond National Nature Reserve. A Nature Trail has been laid out through the semi-natural woodlands and enables visitors to learn something about the varied plant and animal life of the Reserve.

In the second tent you will find specimens of some of the animals which occur on Scotland's Nature Reserves. They include the Pine Marten, Wild Cat, Fox and Red Deer.

The Nature Conservancy is one of the component bodies of the Natural Environment Research Council and is responsible for carrying out ecological research and for the management of the 126 National Nature Reserves in Great Britain.

Specify NORVAD S.F. SELF-CLOSING SAFETY HOOKS

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Increasing demands for rationalisation and mechanical resources are placing added demands on detail. The Norvad S.F. hook is the most modern lifting instrument, small, lightweight and manufactured of the highest quality material with a rather high stretching limit and great resistance against wear and tear. The method gives absolute protection against unintentional disconnection and the hook can be either considered as a self-closing hook or as a lifting eye that can be opened.

Each **NORVAD S.F. SAFETY HOOK** incorporates a Safety Device which locks the hook closed as soon as a load is applied to the hook. This device is easily opened again, but due to the special designs this operation is only possible when the load is rested, thereby ensuring a very high degree of safety to both the load and the operator.

Norvad S.F. Safety Hooks are available in four types, i.e. Eye, Shank, Bow Swivel or Totally Enclosed ball-bearing swivels.

6/1 MINIMUM SAFETY FACTOR.

Size range : 10 cwt. to 15 tons. All sizes available EX-STOCK.

NORVAD EQUIPMENT Limited

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Telephone : 01-850 0367

Also in the second tent is the exhibit of the Scottish Wildlife Trust which is the organisation concerned with nature conservation in Scotland.

The Scottish Wildlife Trust is an independent, voluntary organisation supported by membership subscriptions and donations. The Trust cares for all wildlife, both plants and animals, together with their habitats, and is particularly concerned with wildlife in the more densely populated parts of Scotland. Regional Branches are established, within which local people deal particularly with local problems of wildlife conservation. The exhibit shows the many activities of the Trust in support of wildlife in the countryside.

THOMAS NIVEN LTD

Stand No. 182

Andreas Stihl is the inventor of the power-driven Chainsaw, and made the first model more than 40 years ago.

This firm is exhibiting 10 models in the STIHL range, as follows: 041 AV., 050 AV., 090 AV., 08S, S-10, 070, E-15 (Electric), E-30 (Electric), Cut-Quik (for metal and stone-cutting); also S.G.17 Mist Sprayer and Granulator.

Also on display will be various attachments for hedge-cutting; earth-boring; scrub-cutting; peeling device, etc., together with HOS. Electric Saw Chain Sharpening Machine.

All Stihl Chainsaws are fitted with an Automatic self-oiling chain device, and are complete with Safety Guard, etc. Weights are from 17 lbs. upwards, and lengths of bars 13" to 70".

NORTH OF SCOTLAND HYDRO-ELECTRIC BOARD

Stand No. 41

The North of Scotland Hydro-Electric Board have some 426,000 wood poles carrying electricity to consumers in the 21,000 square miles of their supply area.

The routes of distribution lines are selected so as to preserve amenity as far as possible and with the minimum interference to plantations and crops.

The Board's display will illustrate the processing of wood poles and show examples of distribution lines.

NORVAD EQUIPMENT LTD.

Stand No. 110

Norvad Equipment Limited will be showing their range of Norvad SF self-closing safety hooks and iron grip wire rope fittings and iron grip wire rope cutters.

Also featured on the Norvad Equipment Ltd. stand will be winches from the Swedish Sepson range many of which have been designed especially for Forestry use. Also featured will be the range of Sepson Special Forestry Tackle including special lightweight forestry pulley-blocks, Timber Grapples and Hand Grapples.

ORDNANCE SURVEY

Stand No. 27

The Ordnance Survey is a department of the Ministry of Housing and Local Government. In Scotland, Surveyors are engaged in topographical, archaeological and gravity surveys, cyclic re-levelling and the revision of published maps.

The Ordnance Survey work in Scotland requires close liaison with the Forestry Commission, who in turn make full use of Ordnance Survey products, some examples of which can be seen on display.

PRATCHITT BROTHERS LIMITED

STAND No. 86

Manufacturers of Timber Impregnating Plant for preserving timber under pressure for commercial and estate purposes, using creosote or water borne preservatives.

The working exhibit demonstrates an entirely new portable plant which can be fully or semi-automatic.

This plant comprises one mild steel Cylinder 1' 6" dia. x 15' 0" long overall with an opening door at one end. It is designed for a working pressure of 200 lb. per square inch, and is capable of treating timbers up to 12' 0" in length.

The plant is suitable for operating on electric mains supply or alternatively with a small diesel engine.



**FOR LASTING PROTECTION
TIMBER SHOULD GO
THROUGH A**

'Celcure'  PLANT



THE SAFE WAY



**THIS SHORT CIRCUIT
CAN
LEAD TO TROUBLE**

**PLAY
SAFE
AND
KEEP THE CUSTOMER
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See us on Stand No. 87

R. D. (Chemicals & Wood Processes) Ltd.

300 Bearsden Road, GLASGOW, W.3.

Telephone: JORDanhill 8021

PLANT PROTECTION LTD. & SCOTTISH AGRICULTURAL INDUSTRIES LTD.

Stand No. 80

The display organised jointly by the two companies has two main themes.

1. The use of the bipyridyl herbicide, 'Gramoxone' in Forestry.
2. The advantages of the fertiliser 'Enmag', a slow release nitrogenous fertiliser which also contains slowly available phosphate and magnesium.

The major uses of 'Gramoxone' for weeding and preplanting treatment are illustrated in a live exhibit, a range of the machines which have been developed by Plant Protection Ltd. for its application are also on display.

The use of 'Enmag' allows a single dressing of fertiliser to suffice for a season in the nursery bed or transplant lines so completely avoiding the risk of 'scorch' as the result of repeated top dressings.

R. D. (CHEMICALS & WOOD PROCESSES) LTD.

Stand No. 87

The above firm is an associate of the world wide 'CELCURE' Companies and are specialists in wood preservation and eradication of dry rot and woodworm.

Their licensees operate 34 'CELCURE' plants throughout Scotland in which timber is treated with 'CELCURE' A to preserve it lastingly against dry and wet rot, woodworm, termites and marine borers, or with 'CELCURE' F to render it flame resistant as well.

An eradication service is also available to deal with existing affected properties. Other products are:—'CELPRUF'—surface applied wood preservative, 'ANTICELBOR'—insecticide, 'MYCOMORT'—fungicide, 'DRISEAL'—water repellent finish for timber cladding, 'WOODSEAL'—water repellent preservative treatment for Builders' joinery.

RED DEER COMMISSION

Stand No. 55

The Red Deer Commission is the statutory body for dealing with the control and conservation of red deer in Scotland and other related matters. Deer are not respecters of estate boundaries and, as they are often a problem for farmers and foresters, they require to be properly managed if damage to other interests is to be avoided.

The Commission's exhibit illustrates the work of the Commission, including calf marking and census work, and shows the sort of damage deer can cause, as well as suggesting preventive methods which might be taken to avoid such damage.

ROADLESS TRACTION CO. LTD.

Stand No. 105

This firm will show the Roadless 155—equal wheeled four wheel drive tractor with Ford 6-Cylinder 155 BHP engine, transfer box drive to front and rear transmissions, massive front transmission with triple stage reduction. It has 28° front wheel steer angle with hydrostatic full power steering.

Fitted with Boughton Model HDF 25 Winch and Leeford Mastiff Muleadozer.

ROLBA LTD.

Stand No. 142

Rolba Limited are exhibiting two out of the wide range of "Bombardier" rubber-tracked vehicles:

The "Bombardier" MUSKEG Tractor, the "go anywhere" vehicle for hard work. This machine is a general purpose tractor for off-road operations on difficult ground (steep gradients; wet soft terrain). Despite its weight (3 tons) and size (approx. 12ft. x 7ft. 6ins. x 6ft.), it has a ground pressure of only about one p.s.i. unladen (2 p.s.i. with full load) which is as low a ground-pressure you can have, except using a helicopter! Thanks to this, the MUSKEG is considerably less destructive than other (metal-tracked) tractors of similar bulk. The relatively light weight of the MUSKEG, coupled with an extremely large track area, lowers ground pressure to the point where gullyng and washing of skid roads is much reduced or eliminated, and where root damage is very slight. Disturbance of the forest floor is thus minimised.

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They are professionally qualified and fully competent to advise on :

INTEGRATION OF FORESTRY AND LAND USE
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AND SHELTER AND THE WIDER ECONOMIC
ASPECTS OF ESTATE DEVELOPMENT.

*For a typical illustrated example of
this in respect of a Scottish Estate—*

VISIT STAND No. 23

The Royal Institution of
Chartered Surveyors
7 Manor Place
Edinburgh, EH3 7DH
and
12 Great George Street
Parliament Square
London, S.W.1.

The Chartered Land
Agents Society
Lennoxlove Estate Office
Haddington
East Lothian
and
21 Lincoln's Inn Fields
London, W.C.2.

Main uses of the MUSKEG in forestry is land preparation (fencing, fertilizer hauling, lime spreading, etc.), but it can also be used for extraction (MUSKEG with tracked trailer can transport up to 3-4 tons across swamp and moorland (peatbog) with comparative ease), and forest protection (fighting forest fires and spraying weeds and undergrowth). The MUSKEG (top speed with petrol engine about 25 m.p.h.) is as fast as a cross-country tyred fire-engine vehicle, and, in addition, can be driven on ground where the latter gets bogged down or stalls. MUSKEGS are used by the Forestry Commission, as well as by the Forestry Division of the Ministry of Agriculture Northern Ireland.

The "Bombardier" J-5 Tractor, which is a smaller all-purpose tractor, and which is generally used either—(a) with Sulky for tree-length logging, or (b) with TS tracked trailer for hauling of pulpwood, etc.

ROYAL AUTOMOBILE CLUB

Stand No. 60

RAC "Rally of the Forests" is the unofficial title of the RAC British International Rally—now reckoned the most challenging in Europe, thanks to the co-operation of the Forestry Commission. In the 1968 Rally, 74 of the 85 stages were on forestry roads. Just one of the RAC's many activities.

Our Mobile office provides information on all our services to motorists—membership facilities include Rescue Services; Road Patrols; Telephone Boxes; Service Centres; Road Signs; Touring; Travel Service; Free Legal Defence; Free Technical Advice; Insurance benefits; RAC/Lombank Finance Plan; 180 offices throughout U.K.

THE ROYAL INSTITUTION OF CHARTERED SURVEYORS

and THE CHARTERED LAND AGENTS SOCIETY—Joint Exhibit Stand No. 23

This exhibit presents, with emphasis on the integration of Forestry and Land Use, the problems of the small estate and alternative uses of land—for forestry, agriculture, sport, amenity, all related to individual circumstances and overall estate resources. Various other aspects e.g. short and long term financial planning, taxation, costing, estate duty, marketing, valuation, choice of silvicultural species are also covered.

The display is illustrated by large maps, plans, photographs and other descriptive material.

It shows the importance of the role played in forestry, land use and estate management and development by members of the Royal Institution of Chartered Surveyors and the Chartered Land Agents Society.

ST. JOHN'S COLLEGE OXFORD

Stand No. 21

Bagley Wood has been owned by St. John Baptist College for approximately 400 years and is synonymous with Forestry Education and Research. The sawmill attached to the wood was modernised just after the second world war with equipment capable of converting all timber likely to be produced in the wood.

It was primarily concerned with the provision of sawn timber for estate purposes but it is now also supplying the growing demand for stakes and fencing materials.

Out exhibit shows the various types of produce which is being made at the mill.

FORESTRY IN EDUCATION

(Scottish Education Department)

Stand No. 46

This consists of contributions by schoolchildren from Scotland and England, showing the use of forestry topics in their General Education.

There will also be entries illustrating Further Education and work at the Forestry Commission Training Schools.



STAND 26 FOR PRIVATE ENTERPRISE FORESTRY

SCOTTISH FIELD ARCHERY ASSOCIATION

Stand No. 49

Field Archery was developed in the United States as an organised method of practise for hunting. In the past twenty years the sport has gradually separated from its original conception and developed into the most popular form of Archery in the world.

Field Archery is practised on a course of targets normally set up in a wooded area. The standard course has twenty-eight targets set at distances varying from twenty feet to eighty yards, the size of the targets varying according to the distance.

Field Archery is an ideal family sport, you can compete in Tournaments from the age of nine to ninety, male or female.

SCOTTISH WOMEN'S RURAL INSTITUTES

Stand No. 45

On the theme "Leisure and Pleasure", the Scottish Women's Rural Institutes show you how to use your skills in making clothing for the various sports shown in their Exhibition. There is great pleasure to be gained from making these articles as well as enjoying the sports for which they are intended.

At the same time interesting and appetising ways of providing meals are shown ranging from a snack to the more sophisticated 'Hamper.'

SCOTTISH WOODLAND OWNERS ASSOCIATION LTD.

Stand No. 26

The combined exhibit of S.W.O.A. (Scottish Woodland Owners' Association) and T.G.O. (Timber Growers Organisation) whose members represent some 80% of the privately owned woodlands in Scotland, England and Wales, is designed to show almost every aspect of private forestry. The main theme of the exhibit which illustrates how private enterprise forestry combines with other uses of land on an estate is a 40-foot long coloured mural depicting the estate owner with his house and policies, the use of his land for agricultural purposes with windbreaks and cover for game, a small area of Christmas trees, existing and newly planted hardwood for landscaping, a large area of commercial softwoods and work going on in the woodlands.

In addition to this striking backcloth there is a special section describing what S.W.O.A. and T.G.O. can do to help anyone interested in forestry whether it be 1 acre or 1,000 acres. Private timber growers own 1½ million acres of woodlands in Great Britain or 49% of the total forest acreage. The country's timber using industries greatly depend upon these woodlands for supplies.

There are also sections on the many uses of home grown timber, forestry as a career and the £ s. d. of private enterprise forestry.

A special section is devoted to the interests of the younger generation with a competition for children.

The stand will be staffed by executives of the two organisations and by members of the Committees and they look forward to welcoming not only their own Members but all members of the public interested in private enterprise forestry.

SCOTTISH YOUTH HOSTELS ASSOCIATION

Stand No. 54

When a few enthusiasts launched a Youth Hostels Association in Scotland nearly 40 years ago, one landlord who believed in the future was the Forestry Commission. Two Commissioners stood out in 1931 by their substantial contribution—Sir John Sutherland and Sir John Stirling-Maxwell who gave Auchterawe and Loch Ossian respectively. Next year there were five additional hostels at Glen Loin (Arrochar), Ledard and Craig Dhu (Trossachs) Ratagan, Achnashellach and Slattadale (Loch Maree). In 1933 Glen Nevis was added and in 1934 Alltisaigh.

This commenced a long and valuable connection with the Commission so that today about one fifth of our 450,000 bednights annually occur in forest areas. Never once has there been a serious complaint but on five occasions grateful acknowledgment has been made of our members helping to fight fires.

So members in hostels in Scotland, England, Ireland and Wales continue to enjoy the beauty of the trees, the economy of a living countryside and a developed yet natural environment.

TILHILL FORESTRY GROUP

Head Office

GREENHILLS, TILFORD, FARNHAM, SURREY
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Associated Company: Estate Forestry Ltd., 14 Montgomery Street
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SOCIETY OF FORESTERS OF GREAT BRITAIN

Stand No. 16

The main exhibit is an attractive display of exotic trees and foliage, featuring particularly those discovered or introduced to Britain by Scottish Foresters, botanists and nurserymen. There is a series of plaques illustrating the aims, activities and achievements of the Society, which is the only professional Forestry Society for Great Britain.

There are comfortable rustic seats in the Society's area.

Members are cordially invited to use the tent as a meeting-place, and to rest their feet here after visiting other exhibits.

Applications for new members will be welcomed at the tent, where full details of the Society's activities can be found.

SOUTH EASTERN FIRE BRIGADE

Stand No. 33

On display, a Water Tender Fire Appliance, with a built in 400 gallon capacity water tank and fire pump, capable of pumping 600 galls of water per minute, also carrying a portable fire pump capable of pumping 350 gallons of water per minute. This appliance is typical of those used for fighting fires in forests and heathlands. Various types of fire fighting equipment are also on display.

A model of a section of a well protected forest showing the layout of fire points, water supplies, fire pumping points, fire breaks etc. will also be on show, to emphasise fire protection in forestry.

J. A. STEWART (PLANT) LTD.

Stand No. 135

This firm will exhibit two J.C.B. Hydraulic excavators; one, the 6D on tracks and one, the 3C on wheels.

The 6D is a back actor and face shovel with 360° slewing. The 3C has a back actor and face shovel unit at the rear, with 180° slewing, and a full width loading shovel at the front.

Both units can be used with a variety of attachments, including grab, ditch cleaning blade, ripper tooth, tapered ditch forming bucket, back filling blade and log jaws.

Trenching buckets range in width from 12" to 48" and are both standard and heavy duty construction.

The front shovel of the 3C can be supplied in the Drott 4 in 1 form, and two alternative equipments, a crane attachment and a fork-lift can also be fitted.

TILHILL FORESTRY (SCOTLAND) LTD.

Stand No. 72

The Tilhill Forestry Group provides a complete and comprehensive forestry service throughout the United Kingdom. This is demonstrated on the Tilhill Stand where the geographic location of all Tilhill operational centres is shown and where all the various services in woodland management, afforestation, silvicultural tending, harvesting, marketing, nurseries and landscaping are described and illustrated both photographically and in model form.

The Tilhill Nurseries comprise the largest single private forest tree nursery in the country; modern and advanced techniques are used and new mechanical aids are continually being developed. On display is the most recent development in the Tilhill transplant-lifting machine.

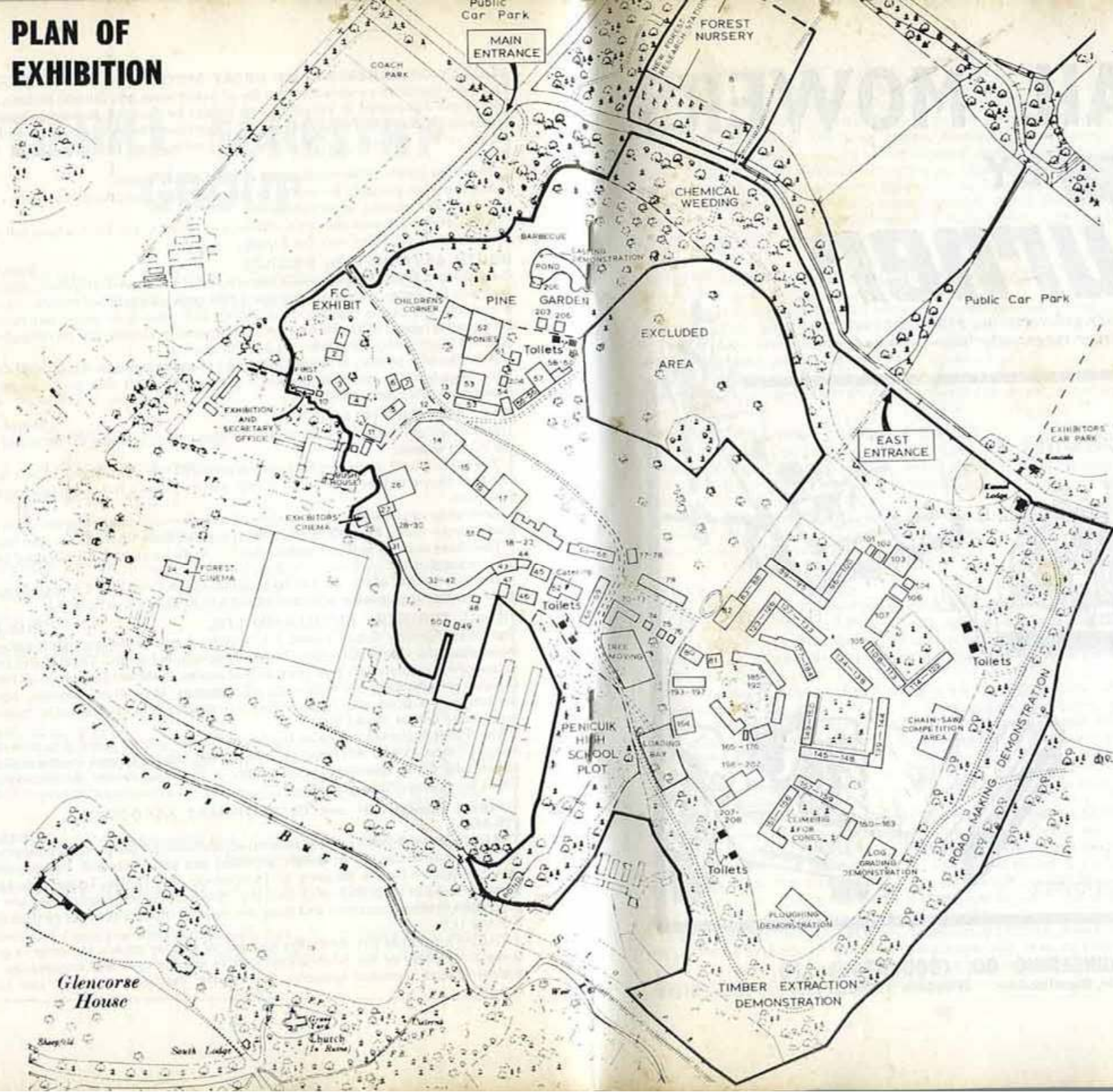
TIMBER RESEARCH and DEVELOPMENT ASSOCIATION (TRADA)

Stand No. 18

TRADA exists primarily to help industries, professional people and consumers who are interested in the use of timber, plywood and particle board. The Association is financed jointly by the Ministry of Technology, the Timber Trade Federation and member firms in all branches of industry. Head office and laboratories are at High Wycombe, Buckinghamshire and there are regional officers at major centres throughout the U.K.

TRADA's stand at the exhibition consists of display panels showing in graphical terms a summary of the work undertaken in architectural and engineering design, biological and chemical research, fire testing, mechanical testing and industrial research.

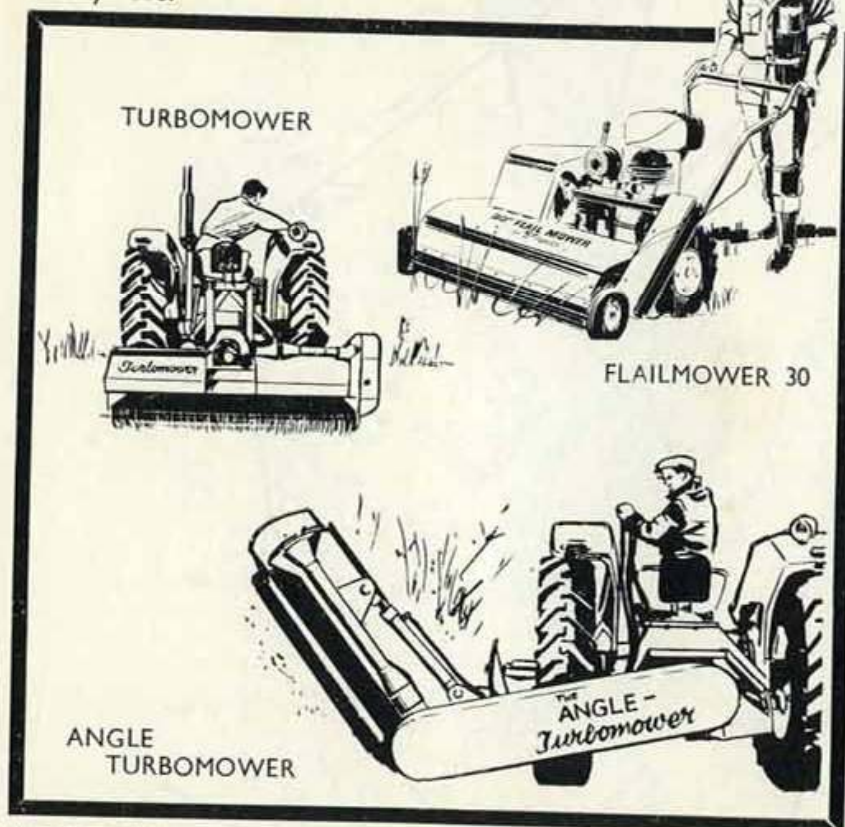
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TOOLEY ELECTRO MECHANICAL CO. LTD.

Stand No. 174

At this stand a fully fitted Mobile Workshop utilising the 109" Land-Rover and complete with a 3kVA, 240VAC, underseat mounted generator, a 250 amp High Frequency welder and side opening workbench will be on show. Details of a wide range of alternative installations involving pumps, compressors, hydraulics, winches and other workshops will be available on application. Installations are available for many types of commercial vehicles, particularly all types of Land Rover. Units now in service throughout the world with Survey teams, Television and film units, Government Departments (e.g. agriculture and Defence) Public Works Contractors, Universities, Plant Hire companies garages and many others. Call and see us if mobile power of any kind is your problem.

TURNER ENGINEERING CO. (COUGHTON) LTD.

Stand No. 132

The exhibits on show at this stand will be:

Pedestrian Controlled 30" Flail Mower designed for cutting and pulverising grass and light scrub—principally used in confined rough areas, forestries, etc.

Turbomower—rear mounted Flail Mower 5' 4" width of cut. Fitted simply to three point linkage on tractor and driven from the power take off.

Angle Turbomower—rear mounted offset angling Flail Mower designed for cutting grass and scrub on banks and ditches. Power take off driven, hydraulically controlled.

UNIVERSITIES JOINT FORESTRY EXHIBIT

Stand No. 43

This exhibit jointly prepared by the four University Departments concerned with Forestry education in Britain, is designed to show the great increase in the research being undertaken by the universities, and its relation to the current needs of the industry.

The development of a wide range of interest and specialisation within the four schools in the last decade is displayed by the range of options available to the undergraduate and post-graduate forester.

VAUXHALL MOTORS LTD.

Stand No. 154

On show here will be the Bedford model RLH 4 x 4 four wheel drive chassis cab of 156 in. wheel base, plated 8.25 tons, with 300 cu. in. 133 B.H.P. petrol engine. Full cross country specification similar to that used by armed forces throughout the world. Fitted with full power take off from transfer box and versatile Plumett Auto-Capston winch, Type CA-45.

Also on display is the Bedford model KM 6 x 4 of 199 in. mean wheelbase, plated 22 tons, with 466 cu. in. 143 B.H.P. diesel engine. The Eaton Hendrickson rear suspension system with twin two-speed axles and lockable third differential give the vehicle an excellent ability for cross country operation. Fitted with Hiab 177 Speed-loader with ground controls.

ERNEST A. WEBB LTD.

Stand No. 161

On show at this stand will be the WEBB "520" DIGGER/LOADER with the 360° slew which has been designed to fit a wide range of tractors and is mounted by a four-point semi-rigid frame. The boom and crowd arm are so designed to allow the machine to work over obstructions and will enable timber to be discharged into a high-sided truck. The machine can also slew through its 360° travel when a tractor cab is fitted and for travelling with the boom and crowd in the forward position the "520" becomes a stable and compact mobile unit.

Lifting capacity at the end of the standard arm is 1120 lbs. A wide range of auxiliary equipment is available for timber handling, sugar beet, manure, slurry, sand, fertilizer, grain, coal etc. and for digging, ditch cleaning and tile drainage. Can be mounted and detached from a tractor with comparative ease.



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Also on display will be the WEBB "360" UNIVERSAL LOADER/TRENCHER. Designed as a multi-purpose heavy duty machine, it can pick up loads and because of its continuous 360° slew, deposit them within a 16' radius without moving the tractor unit. It is mounted onto most tractors by a special sub-frame. Because of the 'geometry' of the machine, the dipper arm can be elevated to a very steep angle which not only gives abundant loading height but also allows the machine to be rotated within confined spaces as is ideal for forestry work.

WESTERN MACHINERY & EQUIPMENT CO. LTD.

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WESTERN FARM REAR TRACTOR LOADER—Shown in this application with a log catching attachment for ease of handling of pulp wood and pit prop lengths.

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THE WILDFOWLERS' ASSOCIATION OF GREAT BRITAIN AND IRELAND

Stand No. 206

Patron, H.R.H. The Prince Philip, Duke of Edinburgh, K.G., K.T.

WAGBI, as it is usually called, is the only organisation working wholly and full time on behalf of sporting shooting at all levels.

Supported by 20,000 members and more than 200 affiliated organisations, the need to increase membership is still vital.

The Exhibition Caravan shows all aspects of our interests, with regard to conservation, co-operation with other bodies, and education in general.

WAGBI's Headquarters are at Grosvenor House, 104 Watergate St., Chester.

WOLSELEY ENGINEERING LTD.

Stand No. 130

The exhibits at this stand will include a complete range of Wolseley Electric Fencing Equipment. Wolseley Jungle Buster Rotary Cutter for land clearance suitable for all types of tractors with Power Take Off.

The Wolseley Merry Tiller range of Cultivators, suitable for all types of digging, including grass cutting equipment and other accessories.

The new Wolseley 23" Self-Propelled Rotary Grass Cutter, capable of tackling effectively grass up to 12" high.

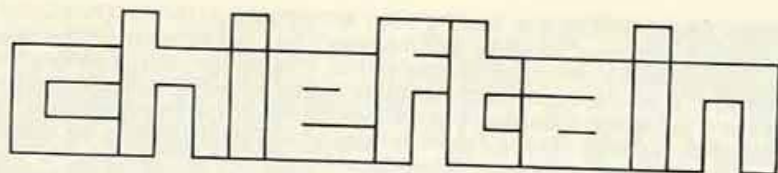
Wolseley "Clearway" range of Self-Propelled pedestrian controlled grass cutting machines. Consisting of 30" Reel Mower, 30" Rotary Grass Cutter and 36" Sickle Mower. These machines have been designed for the professional user and can deal effectively with grass standing 24" high.

THE WORLD WILDLIFE FUND

Stand No. 205

It is part of the general policy of the Forestry Commission to preserve wildlife so far as possible, in that they are a valuable part of our national heritage. So we welcome the participation of this organisation.

The object of the World Wildlife Fund is to keep alive as many as possible of the different kinds of birds and beasts and plants which have hitherto shared this planet with us. In our context "wildlife" includes anything which is alive and wild and we aim to perpetuate, for the enjoyment of people, as much as possible of the natural world which is an essential part of our human environment.



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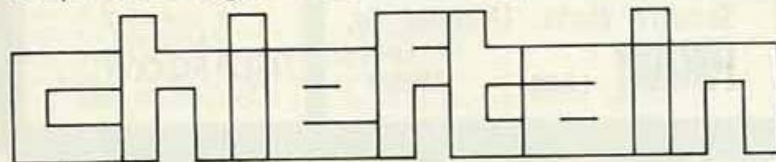
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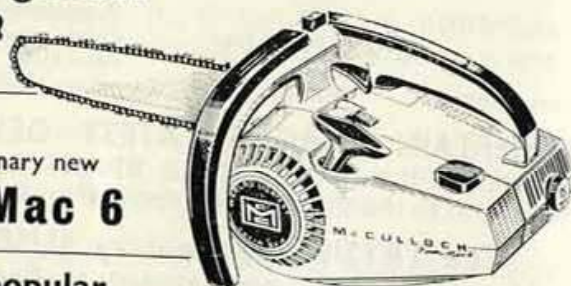
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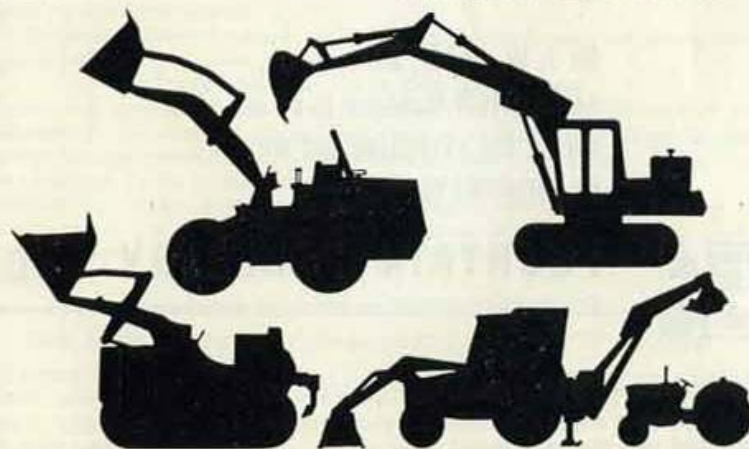
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COMPETITIONS AND DEMONSTRATIONS

Chainsaw and Axe Competitions

One of the main attractions of general interest will be the Chainsaw and Axe Competitions which will take place daily in an arena (Refer to plan) at the Eastern end of the ground. Times will be announced over the public address system.

For the Chainsaw Competitions, entries have been made in advance, and heats will be run off on Thursday 5th and Friday 6th, with finals taking place on Saturday 7th of June.

There will be daily prizes for the best performances during Thursday and Friday, and the main prizes will be competed for on the Saturday. The excellent prizes being awarded have been kindly donated by various manufacturers of Chainsaws.

Axe Competitions

For the Axe Competitions, there will be separate events each day and entries—OPEN TO ALL—will be accepted during the exhibition at the officials' tent in the arena, from where details may be obtained.

All competitors must provide their OWN AXES, and participation in competitions is entirely at one's OWN RISK.

School Forestry Competition

There will be a 'Continuous' competition going on at the Penicuik High School Project, which is primarily intended for the younger visitor.

This competition takes the form of identifying various trees, estimating the age, height and girth of a tree, and so on.

Successful competitors will be awarded a Junior Forester's Badge as a prize.

Outdoor Demonstrations

A number of interesting outdoor "Live" demonstrations have been arranged, which will give visitors a glimpse of some of the many aspects of forestry.

These demonstrations will include the following:—Cone (Seed) Collection, Log Grading, Timber Extraction, Tree Moving, Ploughing and Drainage, Chemical Weeding, Brash Cutting (near Ploughing demonstration), Forest Nursery (various demonstrations), Tree Planting, School Forestry (Penicuik High School Project), Roadmaking and Maintenance.

Please refer to map on centre pages to assist you in finding out where various demonstrations will take place.

Trade and Non-Trade Demonstrations

There will also be various demonstrations by Trade Exhibitors and other organisations: for example, Fly-casting, daily at the pond in the Pine Garden by the world-famous professional Peter Anderson, and a miniature "Orienteering" course organised by the British Orienteering Federation, etc.

Various manufacturers and agents of Chainsaws will be showing what their products can do, and of course visitors may see any number of different vehicles and the wide range of specialised ancillary mechanical equipment used with them in forestry.

THE NEW FORESTRY COMMISSION RESEARCH STATION

The new building for the Forestry Commission's Northern Research Station is at present under construction near the main Entrance to the Bush Estate, as some visitors may notice, and it will be completed by the end of 1969.

It will mean that for the first time, the Forestry Commission Research Staff in Edinburgh (which serves all Scotland and the North of England) will be housed in really suitable accommodation, under one roof, and with their own laboratories.

Incorporated will be the new physiology Section, Silviculture and Genetics, plus research in Soils, Entomology, Pathology and Statistics.

The new building will also incorporate improved office, laboratory and workshop accommodation, as well as adjacent greenhouses, nursery and experimental sites.



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demonstrates
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DEMONSTRATIONS BY PETER ANDERSON

If visitors wonder why a world-famous casting champion—holder of many Scottish, British and World titles—is giving a series of demonstrations at a forestry exhibition, the answer is that he will be an undoubted additional attraction for visitors, and in addition, the Forestry Commission does have an interest in angling in that it has numerous stretches of fishing water throughout Britain, most of which is rented out to Angling Societies etc., to the eventual benefit of the taxpayer.

By special arrangement with the "Milbro" Company (Millard Brothers Ltd. of Motherwell), for which Peter Anderson demonstrates its range of fishing rods and tackle, he will show his skill using the pond in the Pine Garden.

There will be three separate demonstrations on the Thursday (5th) and Friday (6th) commencing at 11.30 a.m., 1.30 p.m. and 3.30 p.m. and on Saturday (7th) there will be two demonstrations, at 11.30 a.m. and 1.30 p.m.

Anyone who has already seen Peter Anderson at various shows or on T.V. will appreciate that besides being the complete expert in his skilful art, he has developed into a highly entertaining performer, with an "act" well worth seeing whether one is a fisherman or not.

However, his impressive score of records and titles prove that he is probably the world's greatest living exponent in using rod and line, and travels extensively at home and abroad, competing and demonstrating.

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SPECIAL JUBILEE YEAR ACTIVITIES IN THE VARIOUS CONSERVANCIES

Forest Weeks, Exhibitions and Open Days

The main purpose of our Forestry Exhibition is to let people see what the Forestry Commission has achieved during its first fifty years of operation.

Unfortunately only a tiny proportion of the population of this country will be able to visit the exhibition at the Bush Estate, and so we decided to organise smaller exhibitions and demonstrations of forestry work throughout the British Isles, during June and July of this year.

Every Conservancy in the country has made arrangements to welcome members of the public to certain of its forests, and will be ready to show visitors what sort of work is entailed in the production of timber.

Besides the demonstrations in the forests, some Conservancies have arranged small indoor exhibitions in one of the main towns within their area. Others are opening Wild Life Museums, new Forest Trails and so on.

These Forest Weeks will give us an opportunity to tell the public more about the many interesting features of their local forests. So do please come along and see what is going on.

Full details will be published in your local newspaper, but the following is a list of dates for the various Forest Weeks, with brief details of some of the events which have been arranged.

NORTH SCOTLAND CONSERVANCY

Forest Week in this Conservancy will start on Monday, 9th June, and end on Saturday, the 14th June. The public are invited to see demonstrations of forest operations at four forests:-

- Culloden Forest, near Inverness,
- Inchnacardoch Forest, near Fort Augustus,
- Leanachan Forest, near Fort William, and
- Queens Forest, near Aviemore.

An indoor exhibition will be staged in the Inverness Art Gallery during Conservancy Jubilee Week. The exhibition will be opened on the 9th June 1969 by Lord Macdonald, Lord Lieutenant of Inverness-shire. Representatives of varied interests in the Highland Counties will be invited to the opening ceremony and to a reception afterwards. The exhibition will consist of a series of photographs, diagrams, models, etc. depicting the various stages in the development of a forest and the harvesting of the timber.

Special arrangements are being made for school children to visit forests to see current operations. The children will be encouraged to take part in tree planting ceremonies.

SOUTH SCOTLAND CONSERVANCY

The dates for Forest Week are 16th to 23rd June. The forests at which special demonstrations are to be organised are Forest of Ae, Glentress and Kirroughtree. An indoor exhibition will be held in Dumfries which will be opened on June 16th.

Special arrangements for school children to visit forests will be organised.

At the Forest of Ae (near Dumfries)

An exhibit showing how the forest has been created will be set up near the forest office. Harvesting operations will be taking place along one of the two existing Forest Walks except on Sunday, 22nd June. Conducted school outings will take place during which pupils will plant tenth-acre plots. These will be permanently labelled. Ae village school children will plant ornamental trees.

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At Kirroughtree Forest (Near Newton Stewart)

The Provost of Newton Stewart will open the Forest Week at the Forest Garden where he will plant a tree to mark the occasion, and afterwards will visit the forest demonstrations.

Nursery work (sowing and lining-out) and harvesting operations will be specially demonstrated each morning and afternoon except on Sunday, 22nd June. Conducted outings for school children will take place here also.

At Glentress Forest (Near Peebles)

An exhibit illustrating the Forestry Commission's work locally will be held next to the forest office.

Harvesting operations will be demonstrated close to the Forest Walk, except on Sunday, 22nd June, and schoolchildren will plant small plots.

EAST SCOTLAND CONSERVANCY

The dates for Forest Week are 16th to 23rd June. The forests to which the public will be invited are Craigvinean, (Near Dunkeld), Culbin (Near Forres), and Blackhall (Near Banchory) also Newton Nursery (Near Elgin).

An indoor exhibition will be held at Aberdeen Art Gallery illustrating various aspects of the Commission's activities. Tree Planting Ceremonies by senior school pupils will be held at the open forests where new Forest Walks will also be established. A Wildlife exhibition will be staged at Craigvinean. Special arrangements are being made to encourage school children to visit those forests which are open during Forest Week. At Craigvinean Forest there will be Mini-bus tours, and at Newton Nursery there will be a Picnic Site available, also tree seedlings for sale to the public.

WEST SCOTLAND CONSERVANCY

In this Conservancy, the Forest Week will be from June 16th to 22nd. An indoor exhibition on forestry will be held in Glasgow Museum and Art Gallery from June 9th to 21st.

Members of the public are invited to visit the following forests, at which a variety of interesting demonstrations are being arranged:

Carradale (Kintyre, Argyle), Glenrickard (Isle of Arran), Benmore (By Dunoon, Argyle), Loch Ard (Aberfoyle), Strathyre (Near Callander, Perthshire), Inverliever and Inverinan (Lochaweside, Argyle).

Here again, arrangements are being made to facilitate the visits of local school-children to the numerous forests, and arrangements are being made for visits by various Societies to the forests. In addition the public will be introduced to a number of attractive forests walks.

NORTH WALES CONSERVANCY

Forest Week in North Wales will be from June 30th to July 5th but will exclude Investiture Day (July 1st). The forests involved are Gwydyr (Caernarvonshire) and Dovey (Merioneth and Montgomeryshire).

At both of these forests there will be two routes open to motorists and coach parties. One will be conducted with demonstrations of forest equipment, machinery and techniques, and with commentaries by foresters. The other will be a non-conducted drive on mountain roads through the forest, with viewpoints and picnic places. Programmes and guides will be on sale at all routes, giving all details.

Tree planting ceremonies have been arranged, and schools are being invited to plant and care for trees.

SOUTH WALES CONSERVANCY

The Forest Week will take the form of a working Exhibition from July 7th-12th at Margam Forest which is part of Coed Morgannwg.

The Exhibits will consist of practical working demonstrations of all the normal forest operations from Nursery work planting, fencing, to the ultimate felling and

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conversion as timber. Special exhibits will also emphasise the importance of Recreation, Wild Life and Education. Pupils from School Forest Plots and other youth organisations will be taking part. Films on various forest operations will be shown.

The opening ceremony will be on the Monday afternoon (approximately 2.30 p.m.) by Sir Cennydd Traherne, T.D., LL.B., Lord Lieutenant of Glamorgan with Mr. Gwynfryn Davies, Forestry Commissioner presiding. It is also hoped that the National Hostess ("Miss Croeso") will be present on this afternoon.

Forestry Commission Mini-buses will transport passengers from normal public service buses on to the site and will also be available for a five mile scenic drive through the forest. A small charge will be made for these facilities. This exhibition is also South Wales contribution towards "Croeso 69"—the celebrations in connection with the Investiture of the Prince of Wales.

NORTH-EAST ENGLAND CONSERVANCY

The Forest Week will commence on June 10th, through to June 15th, and forest demonstrations are to take place in the forests of Kielder (Lewislake) and Allerston (Low Dalby). In addition there will be special facilities for the public to visit Hamsterley Forest and Bishop Wood, Selby Forest.

Facilities will be available in certain areas for picnics, and details of Forest Trails, Forest Walks, etc. will be described in a leaflet obtainable at the two main Reception Centres at Kielder and Allerston Forests. Car parks are available and cars will be permitted on certain forest routes. Visitors will find the Information Kiosks at the Centres most helpful, where a variety of forest literature may be obtained. Facilities for simple refreshments will be available. An interesting Indoor Museum may be visited at the Lewislake site.

SOUTH-EAST ENGLAND CONSERVANCY

This programme will be in three parts as follows:

(i) An indoor exhibition at Guildford during the three weeks of June 9th to 28th, Mondays to Saturdays from 1100 to 1700 hrs.

(ii) Demonstrations at Bramshill Forest (outdoor and indoor) from June 23rd to 28th on the theme "The Forest as a Contributor to Industry and Land Use", which provides scope for a highly interesting show for everyone. A plot is earmarked for schools and societies to plant a tree each.

(iii) Also from June 25th-28th (but by invitation only, because of car parking difficulties) there will be special demonstrations at Bedgebury Forest and Pinetum. The Forest, however, will be opened to the general public from June 30th until the end of September.

EAST ENGLAND CONSERVANCY

In this Conservancy a Forest Week will be held from June 7th-13th at Thetford, and activities here will begin with the Woodland Gala to be held in Santon Downham Village, where there will be a great variety of events and contests in which the public will be able to participate. The official opening of Lynford Cross Nature Trail, and of the new Adventure Playing Area at Mildenhall will also take place on this day and there will be a photographic exhibition in the public library at Thetford during the same period.

From July 2nd-5th there will be a special forestry exhibition at the Town Hall at High Wycombe, and a further Forest Week will take place from July 7th-12th at Halton Wood (Wendover) where there will be active demonstrations of most forestry operations. Here also there will be two Nature Trails, three picnic sites and horse trails. Some thousands of school children will plant young Beech trees in certain selected areas in the Chilterns.



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NORTH WEST ENGLAND CONSERVANCY

The main event in this Conservancy will be the unveiling of a commemorative Cairn by the Forestry Commission's Chairman, at Thornthwaite Forest on June 9th. This will be followed by a tree planting ceremony. A Forest Walk, including demonstrations of forest operations, will be open to visitors to Thornthwaite during the remainder of that week.

Owing to the large extent of the Conservancy, additional events have been spread over two subsequent weeks to allow for maximum participation. During the week from June 16th to 21st new Forest Museums will be opened at Delamere and Mortimer Forests, and during the week from June 23rd to 28th a new Forest Museum will be opened at Cannock Forest. In each case there will be a tree planting ceremony, and a Forest Walk (starting from each Museum) will remain open for visitors until the end of the summer.

School children are being actively encouraged to visit these Museums and Forest Walks, and also to visit their own local Forests in the Conservancy, and large numbers are expected. But there is still ample space and a cordial welcome for all members of the public. The now famous Wildlife Centre at Grizedale Forest is well worth a visit at any time of year.

SOUTH-WEST ENGLAND AND DEAN CONSERVANCY

The Conservancy Forest Week will start on June 23rd, and the forests open to the public will be: Dean, Wyre, Savernake, Bristol, Exeter, Plym and Bodmin.

At the Forest of Dean, from June 26th to 28th a large exhibition based on the theme "Then and Now" will be staged in a 100' x 40' marquee at the Beechenhurst Picnic Site.

There will be a great variety of interesting things to see—many active demonstrations etc., forest guides will be available and of course refreshments and other amenities. A new 20 mile scenic motor route will also be opened.

At the other forests indicated, there will be various demonstrations, Forest Walks, commemorative tree planting and other displays and attractions, such as the opening of new Nature Trails.

THE NEW FOREST (SURVEYORSHIP)

The Forest Week will take place between June 10th and 15th. At the New Forest itself, there will be an indoor exhibition at the Verderers' Hall, Lyndhurst, having as its theme the "New Forest, Past and Present."

Among the outdoor arrangements at the New Forest will be demonstrations of felling, extraction, conversion, road making, protection etc. Also schoolchildren will plant young trees as part of a Jubilee Walk.

At Brighstone Forest a permanent Jubilee Walk and Nature Trail will be opened and at Parkhurst Forest there will be an indoor exhibition at Signal House, and certain forest roads will be open to cars, coaches and walkers.

FOREST RESEARCH STATION, ALICE HOLT, FARNHAM, SURREY.

Jubilee celebrations at this Research Station will take the form of "Open Days", with June 27th reserved for professional guests, schools and organised parties, and June 28th for the general public.

This will provide an opportunity to see the Research Station and the specially arranged indoor and outdoor exhibits and demonstrations showing a cross-section of the research work being done by the Commission. These exhibits will cover a wide variety of topics ranging from production of seed to harvesting of the final crop of timber.

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CONSERVANCY ADDRESSES

(All correspondence should be addressed to The Conservator)

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SOUTH SCOTLAND:	The Forestry Commission, Greystone Park, 55/57 Moffat Road, Dumfries. (Tel. ODU-7. 2425).
EAST SCOTLAND:	The Forestry Commission, 6 Queen's Gate, Aberdeen. (Tel. OAB-4. 33361).
WEST SCOTLAND:	The Forestry Commission, 20 Renfrew Street, Glasgow. (Tel. 041-DOU 7261).
N. E. ENGLAND:	The Forestry Commission, Briar House, Fulford Road, York YO1 4DB. (Tel. 090-4 24684).
N. W. ENGLAND:	The Forestry Commission, Dee Hills Park, Chester. (Tel. 0244-24006).
EAST ENGLAND:	The Forestry Commission, Brooklands Ave., Cambridge (Tel. 0223-54495).
S. W. ENGLAND & DEAN:	The Forestry Commission, Flowers Hill, Brislington, Bristol, BS4 5JY. (Tel. 0272-78311).
S. E. ENGLAND:	The Forestry Commission, "Danesfield", Grange Road, Woking. (Tel. 0486-2-61071).
NORTH WALES:	The Forestry Commission, Victoria House, Victoria Terrace, Aberystwyth. (Tel. 0970-2367).
SOUTH WALES:	The Forestry Commission, Churchill House, Churchill Way, Cardiff. (Tel. 0222-40661).
NEW FOREST (SURVEYORSHIP):	The Deputy Surveyor. The Forestry Commission, The Queen's House, Lyndhurst, Hants. (Tel. 0421-28-2801).
ALICE HOLT RESEARCH STATION:	The Director of Research. The Forestry Commission, Alice Holt Lodge, Wrecclesham, Farnham, Surrey. (Tel. 0420-4-2255).

OTHER USEFUL ADDRESSES

Royal Forestry Society of England, Wales and Northern Ireland, 49 Russell Square, LONDON. W.C.1. (01-636 4892).
 Royal Scottish Forestry Society, 26 Rutland Square, EDINBURGH, EH1 2BU. (031-229 3651).
 Timber Growers Organisation Ltd. (for England and Wales), 35 Belgrave Square, LONDON. S.W.1. (01-235 3281).
 Scottish Woodland Owners Association Ltd., 6 Chester Street, EDINBURGH, 3. (031-225 1905).
 Society of Foresters of Great Britain, 18 Northumberland Avenue, LONDON. W.C.2. (01-930 7209).
 Commonwealth Forestry Association, 18 Northumberland Avenue, LONDON. W.C.2. (01-930 7209).
 Commonwealth Forestry Bureau, at: Commonwealth Forestry Institute, South Parks Road, OXFORD. (009-2 57891).
 Forest Seed Association, Forest Research Station, Alice Holt Lodge, Wrecclesham, FARNHAM, Surrey. (042-04 2255).
 Forest Products Research Laboratory (Ministry of Technology), Princes Risborough, Buckinghamshire. (Princes Risborough 101).
 Nature Conservancy (Department of Education and Science), 19 Belgrave Square, LONDON. S.W.1. (01-235 3241).

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CELEBRATIONS IN SOUTH WALES

South Wales joins in the "Croeso 69" Celebrations for the Investiture of the Prince of Wales by holding a Jubilee Exhibition on a site that links these celebrations with the coronation of H.M. the Queen.

In 1953 the forests of Margam, Rheola, Michaelston and Cymmer, were combined to create Coed Morgannwg (Forest of Glamorgan) into the largest forest in Wales in honour of H.M. Coronation.

It was at Margam Forest that some of the earliest planting in Wales was carried out in 1921. Since then Coed Morgannwg has spread over the surrounding hills and now extends to 40,000 acres (about 60 sq. miles).

Starting with these early plantings the forests in South Wales have produced many thousands of tons of timber in the form of pit props and saw logs for local collieries and saw mills. The figure currently running at about 100,000 tons annually and rising in 1985 to 3 times this figure.

In recent years the transformation of the old industrial valleys, camouflaging of tips and open-cast coal sites, and the general improvement of recreational facilities, has perhaps been more appreciated by the public than the economic aspect of growing trees. However, this last item must not be forgotten as it is still our primary object to produce timber for industry. We hope the exhibition will show that all these objects can be achieved with a little give and take on either side, and that forests are part of the wealth of Wales which should be treated with a little consideration.

After leaving the main demonstration area, visitors will be able to drive themselves through the forest along tourist routes, provided with stopping places where scenic panoramas and views of the forest can be seen.

Special arrangements will be made for organised school and coach parties.

Admission to the Exhibition is FREE, but a small charge will be made for parking.

All enquiries to:— FORESTRY COMMISSION, CHURCHILL HOUSE, CARDIFF.
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Welcome to the Forestry Exhibition
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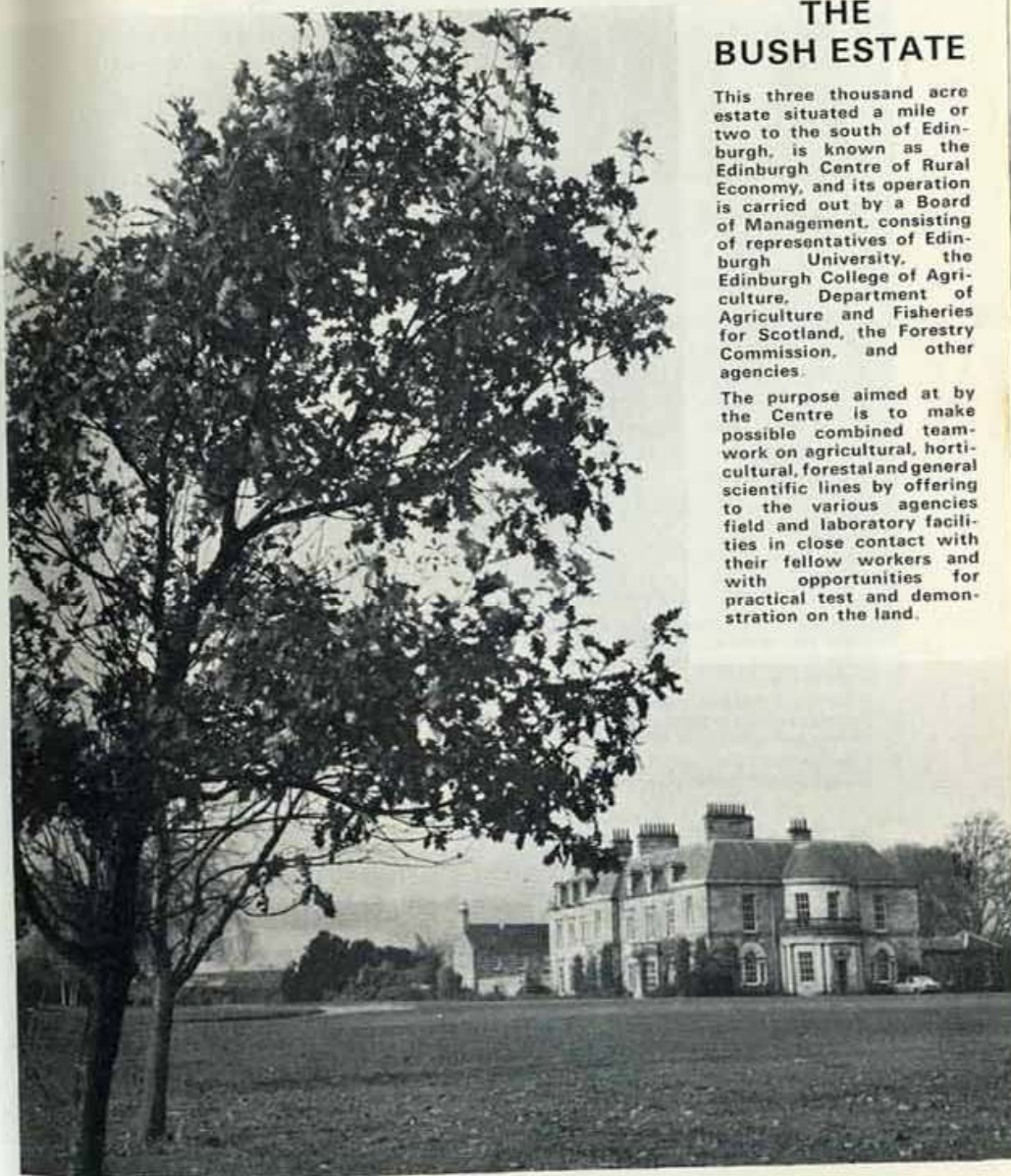
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THE BUSH ESTATE

This three thousand acre estate situated a mile or two to the south of Edinburgh, is known as the Edinburgh Centre of Rural Economy, and its operation is carried out by a Board of Management, consisting of representatives of Edinburgh University, the Edinburgh College of Agriculture, Department of Agriculture and Fisheries for Scotland, the Forestry Commission, and other agencies.

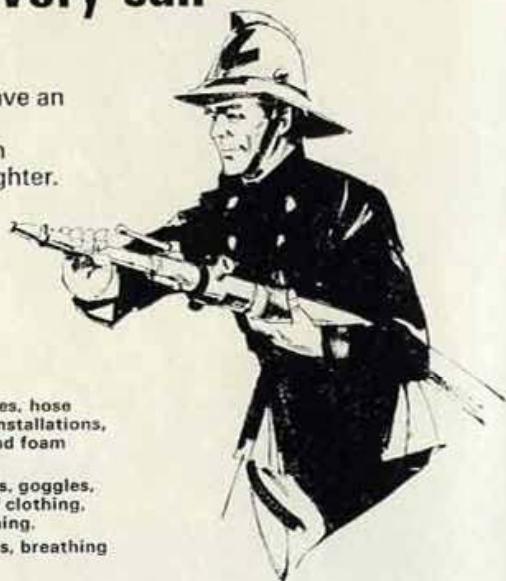
The purpose aimed at by the Centre is to make possible combined teamwork on agricultural, horticultural, forestal and general scientific lines by offering to the various agencies field and laboratory facilities in close contact with their fellow workers and with opportunities for practical test and demonstration on the land.



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Part of the Forest Garden area at the Bush Estate which pupils of Penicuik High School have developed as a special forestry project.

Photo by George Kemp, Esq.

PENICUIK HIGH SCHOOL, FORESTRY PROJECT

As part of its general policy, the Forestry Commission throughout Britain does a very great deal to help educate children in forestry, and to encourage them to appreciate and really care about the nation's forests.

Books and pamphlets are specially printed, lectures and film shows are given, and so on.

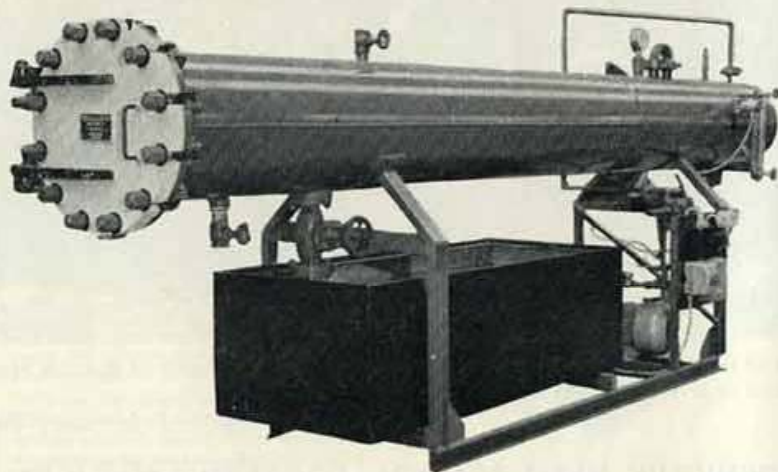
Schools have been encouraged to start small forestry "Plots", where children may plant their own seedlings and watch them grow.

As an excellent example of what school children can do, senior pupils of Penicuik High School, Midlothian, have worked energetically for many months, transforming the once rather neglected Forest Garden area at the South-east end of the Exhibition into an attractive Forest Walk for visitors to enjoy.

So do not fail to visit this charming glen, where also a special "Woodland" competition is being run for the younger visitors.

Besides this, visitors will see other interesting aspects of this Project, where pupils have used the natural woodland to further their education in a variety of ways. School children will be on duty to act as guides, and to talk to visitors about their work in the forest.

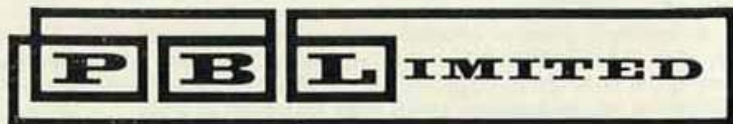
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H.M. The Queen unveils a plaque to commemorate the planting of the millionth acre by the Forestry Commission in May 1956.

The Commission's first trees were planted in Eggesford Forest in 1919.

THE FORESTRY COMMISSION

A 'Potted' History

The Forestry Commission, which celebrates the fiftieth anniversary of its foundation with this exhibition at the Bush Estate, was established under the Forestry Act 1919. This Act and subsequent Forestry Acts were consolidated in the Forestry Act 1967, and the Plant Health Act 1967; these established the Forestry Commission as the national forestry authority in England, Scotland and Wales. Northern Ireland has its own separate organisation. The Commission is charged with promoting the interests of forestry, the development of afforestation and the production and supply of timber in Britain. The Forestry Commission is financed from the Forestry Fund, into which is paid an annual Grant in Aid voted by Parliament together with the Commission's receipts from sales of produce, rentals and other sources. In 1967 drawings from funds voted by Parliament amounted to £15.3 million and receipts were £6 million.

Afforestation

The estimated total area of productive woodland in Britain is 3.28 million acres (1 acre = 0.405 Hectares). Of this, the Forestry Commission manages approximately 1.65 million acres in nearly 500 forests. The Commission holds a further 1.15 million acres of non-forest land, of which about 370,000 acres are unsuitable for planting and 300,000 acres are a balance kept for planting purposes. Each year approximately 50,000 acres are planted and a further 50,000 acres are acquired, thus maintaining the stock. In 1967 46,588 acres were newly planted, 33,166 of these being in Scotland. Planting in Scotland is to be increased by stages until by 1976 50,000 acres are planted per annum. In addition, in 1967, 5,800 acres were restocked to replace felled plantations or trees lost by fire. In the same year 51,000 acres of land were acquired, most of this in Scotland and four-fifths consisting of bare land ready for afforestation. The Commission estimates that 36,600 acres were planted by private owners in 1967.

Seed Orchards

The Commission has established seed orchards, but, as yet, most of the seed used is imported. The Commission's nurseries cover an area of some 1,500 acres,



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GENERAL VIEW OF THE FORESTRY EXHIBITION, EDINBURGH, 1884

a further area being worked by commercial nurserymen to supply private estates. In 1967 the nurseries held stocks of 114 million transplants and 124 million seedlings. 13 million nursery plants were sold to the trade, of which 9,000 were transplants and the majority coniferous.

To make possible the removal of forest produce from the forests the Commission had had to construct a considerable road network. This extends to some 9,000 miles, just under 500 miles of new roads being constructed each year.

One of the major changes resulting from the Commission's work has been in the composition of Britain's forests. There has been a swing from the native broadleaved trees, such as oak and beech, towards coniferous trees of foreign origin, particularly Sitka spruce and Lodgepole pine. Thus, in 1967 nearly 6 million conifers were planted compared with some 260,000 broadleaved trees. The reasons for this change are largely economic. The conifers will grow on land unsuitable for broadleaved trees, they reach productive age much sooner and there is a very much greater demand for softwood in Britain than for hardwood.

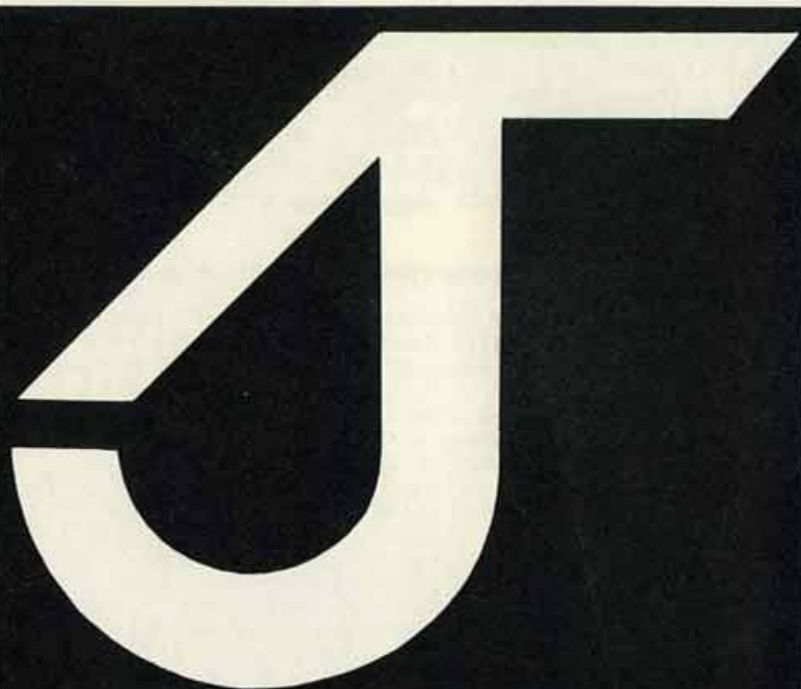
Timber Production

As an increasing number of the Forestry Commission's coniferous woods reach productive age the Commission's role as a timber supplier increases. The volume of timber produced from the Commission's forests increased from 31.0 million hoppus feet¹ (1.03 million tons) in 1966 to 33.6 million hoppus feet (1.12 million tons) in 1967, an increase of 8.4 per cent. About 13.2 million hoppus feet of timber were licenced for felling or thinning on private estates in 1967. The Commission has estimated that the potential production of softwood from Forestry Commission and private forests in Britain will rise from about 61 million hoppus feet in 1965 to nearly 120 million hoppus feet by 1980. By 1985 the Commission expects to produce over 90 million hoppus feet of softwood. Private woodlands may then have a potential production of about 45 million hoppus feet. (These figures include both thinnings and fellings).

The Forestry Industry

The primary object of the Commission is to produce wood for industry. A whole range of new forest industries has been established in Britain to utilise the increasing out-turn of coniferous wood from Forestry Commission and private forests. Home-grown coniferous timber below sawlog size is the main raw material for four pulp mills which are integrated with paper and paper board manufacture. Other factories convert thinnings and small roundwood into chipboard, hardboard and insulated board. These new wood-processing industries have great potential for further expansion particularly as the traditionally important demand for pitprops for coal mining is declining due to colliery closures and mechanisation of the remaining mines. The larger logs are used for sawmilling. In recent years, several

The hoppus foot is a measurement used for trees and round timber and is equal to 1.273 true cubic feet. 30 hoppus feet weigh about one ton.



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new sawmills of advanced technological design have been built and more are planned. Thus Britain's forests are becoming an important producer of fibre for a wide range of processing industries, and through sawmilling, are making a contribution to the large market for sawn softwoods for building and other purposes.

Research

The Commission maintains a Research Division based at two main centres at Alice Holt Lodge, Farnham, Surrey, and in Edinburgh. Its research is directed principally to raising the productivity and quality of forest crops, protecting them from pests and diseases, and developing new methods including mechanisation to promote greater efficiency within the timber growing industry. The work is directed to what are considered to be the most important practical problems facing Forest Managers in both Private and National Forests. Research staff work closely with the Forest Products Research Laboratory at Princes Risborough to assist in more effective utilisation of home grown wood, and close links exist with many other Research Organisations in allied fields such as Soils, Engineering, Fruit Growing, Weed Control, etc. The Commission is able to offer grant support for some special lines of research at several Institutions and Universities.

Support for Private Forestry

The Forestry Commission acts as an advisory body to private owners of woodland. Owners are encouraged to manage their woods in the most efficient way by means of free technical advice, by planned management schemes and by financial assistance. There are three grant schemes; the Dedication scheme, under which the woodlands are legally dedicated to forestry and the owner undertakes to manage them in accordance with a plan approved by the Commission; the Approved Woodlands scheme, for which an approved plan is also prepared, although there is no legal obligation; and the Small Woods scheme. Under all three schemes a standard planting grant is paid; and owners of dedicated kind also receive an annual management grant. The rate of the grant is normally reviewed every three years. More than 1 million acres are managed under the two first named schemes.

The Commission has the benefit of advice from a number of Advisory Committees including the Home Grown Timber Advisory Committee, National Committees for England, Scotland and Wales, Regional Advisory Committees and Committee on Mechanical Development and Forest Research.

Recent Developments

In recent years increasing emphasis has been placed on the social aspects and importance of forestry and on the multiple use of forests and the Countryside Acts of 1967 (Scotland) and 1968 (England and Wales) gave the Commission permissive powers to provide facilities for recreation planting.

The Forestry Commission opened its first Forest Park in 1936 and since then has formed and opened to the public seven Forest Parks in some of the finest country in Britain; Argyll, Glen Trool, Glen More, and the Queen Elizabeth Forest Park in Scotland; the Forest of Dean and the Wye Valley woods on the borders of England and Wales, Snowdonia in Wales, and the Border Forest Park on the borders of England and Scotland. Together with the New Forest in Hampshire these forests provide 600,000 acres of land for public recreation. In addition many marked and documented Forest Walks are maintained in the Commission's forests throughout Britain.

In the interest of maintaining a well balanced ecology within its forests, the Commission employs foresters with special knowledge and professional stalkers to conserve and control wild life. As an aid to public education in this field an increasing number of wild life centres and deer museums are being set up.

The Forestry Commission is concerned to ensure that its operations should be carried out with due regard to amenity. To this end a well-known landscape architect is retained to advise the Commission when planting and felling programme plans are being made.

Cost effectiveness in the forest

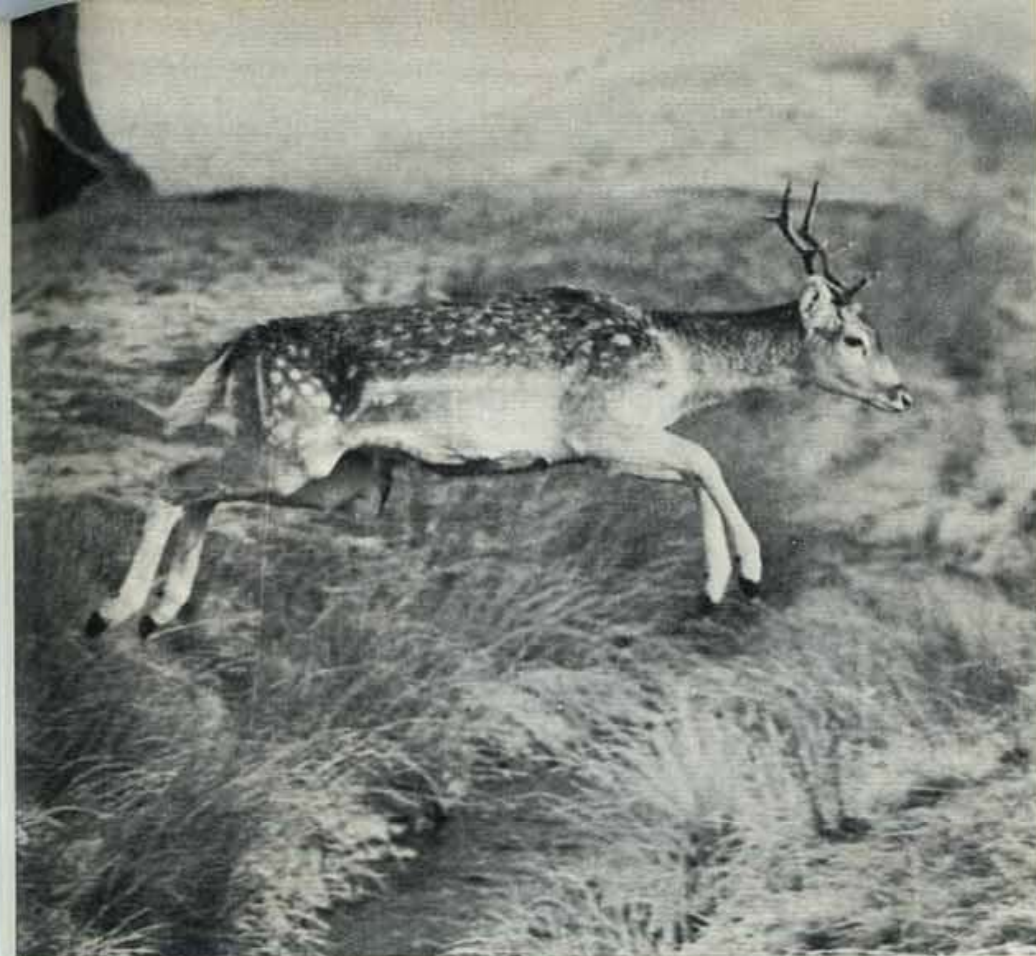
(3) Line thinning

Thinning of young softwood forests is a very costly operation, and an extremely arduous one for those actually engaged on the work. Considerable cost savings over conventional methods can be made by using a line thinning technique. Working conditions are also improved. To take full advantage of this extraction technique, it is necessary to use a compact vehicle with good traction, high ground clearance, full protection for the operator, and which is also suitable for all other aspects of forestry work.

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WILDLIFE IN BRITAIN'S FORESTS

BY

P. F. GARTHWAITE, M.A.

The Countryside Act 1968 imposes a duty on all Government Departments and other official bodies to have regard to the conservation of natural beauty, including animal and plant life, in carrying out their operations.

The Forestry Commission have in fact included this as one of their objectives for many years. The new forests which have been created in the upland areas of Britain soon provided conditions in which several species of animals could increase. Roe Deer and Badger are common examples, but the rare Pine Marten and birds such as the Siskin and Redpoll have also been able to extend their range. The Red Squirrel survives in the pine forests of East Anglia, the Lake District and in the Highlands of Scotland unmolested by the alien Grey Squirrel which has driven it from its traditional haunts elsewhere.

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Some forest animals damage trees and others are harmful to our neighbours' interests and must be controlled. In place however of indiscriminate control of all animals doing or likely to damage, the Commission has adopted a selective system under which animals are controlled only when and where they do damage, and by the most humane method possible.

This needs a high degree of specialised training of the staff concerned, and a willingness to observe "animal hours"—mainly the pre-dawn and pre-dusk period. Fortunately the Forestry Commission has never lacked keen and dedicated field naturalists among its staff at all levels, and it has been possible to recruit from among them a cadre of skilled men who have not only the protection of the trees as their aim, but the conservation of wildlife in the context of efficient forest management. Their work is supported by active Research into better methods of preventing damage—not necessarily involving control of animal populations—and into the study of the animals themselves.

NATURE RESERVES

There is full co-operation at all levels with the Nature Conservancy and with County Naturalists Trusts and the Wildlife Trust. Many areas in Commission forests are designated as Nature Reserves and managed under special agreement with one of these bodies.

In addition to the favourable conditions for wildlife arising from the normal processes of sustained forest management, special steps are taken to create suitable habitats for wildlife in the new forests; breaks of natural vegetation are left by stream sides and other places, ponds are made for wildfowl; nesting boxes put up for birds.

It is fortunate that the measures the landscape architect would have us take to fit our forests into the landscape are also those which will create a pattern most favourable for conservation. Diversity of structure, strands of native species running up into massed conifers, a carefully thought-out plan of felling, a respect for topographical and physical features—all these help both landscape and wildlife and need not impair the main objective of timber production.

The presence of wildlife in a forest adds greatly to its interest, not only for experienced naturalists, but also to the walker and casual visitor. To encourage their interest, the Forestry Commission has laid out a large number of Nature Trails with leaflets to explain what the forest has to show. At several forests there are high seats where for a small fee individuals or parties can observe special areas known to be frequented by deer and other animals. Additional facilities are available for photographers.

At some forests these outdoor facilities are supplemented in forest centres by displays and exhibits giving information about the forest, and showing specimens of the animals and plants which can be seen.

As our forests develop from their youthful uniformity towards the more diverse structure of sustained management, they will become increasingly valuable nature reserves, compensating in some degree for the steady loss of hedgerows and spinneys which formed such rich habitats for wildlife in the past.

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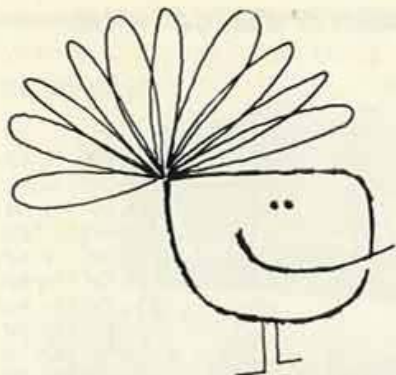
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Government publications can be purchased from the Government Bookshops in London (post orders to P.O. Box 569, S.E.1), Edinburgh, Cardiff, Belfast, Manchester, Birmingham and Bristol, or through any bookseller.



THE WOOD BETWEEN THE TREES

Did you ever see a mushwump in the wood between the trees, probably not. The mushwump is a purely imaginary bird, first discovered by us amongst pit heaps in south-east Northumberland.

It has since been reported from many areas in the county and is clearly developing an eye for beauty when choosing new breeding grounds. The mushwump in a clear melodious song delivers its message, a visit to the countryside, a picnic in a woodland glade is all the better if we know a little more about the animals, plants or whatever we may see there. THE HANCOCK MUSEUM in Newcastle upon Tyne breeds mushwumps and despatches these ambassadors into the countryside. In stand 38 you can see what they do when they get there.

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A piper of the 1st Battalion The Black Watch
plays in the forecourt of Holyroodhouse.

Photo: The British Travel Association

THE BLACK WATCH

By kind permission of their Commanding Officer—Lt. Col. A. L. Watson—the Pipes and Drums of the First Battalion The Black Watch will perform daily for the enjoyment of visitors to the exhibition, at approximately 12 noon, 1400 hours, and in the late afternoon.

The Regiment, Scotland's senior Highland Regiment, was formed in 1739 from a number of Independent Companies, which had been raised, between 1725 and 1729, to police or 'watch' the Highlands of Scotland.

Their dark tartan contrasted with the bright scarlet of the English soldiers. So the now familiar name of 'Am Freiceaden Dubh' or 'The Black Watch' came about. However, it did not become the official name of the Regiment until made so by Queen Victoria in 1861.

The Regiment paraded for the first time on the banks of the River Tay at Aberfeldy, Perthshire, early in 1740. After a short period in Scotland the Regiment embarked for Flanders and received its baptism of fire, against the French in 1745 at the Battle of Fontenoy. From then on its history is inextricably woven into the history of the Wars of Great Britain.

Black Watch Pipers wear the Royal Stewart Tartan, the official tartan of the Royal Family, an honour bestowed on the Regiment by Queen Victoria in 1889.



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ACKNOWLEDGMENTS

The Forestry Commission wishes to express its thanks and appreciation in particular to the

Chairman and Governors of the Edinburgh Centre of Rural Economy for granting the use of the Bush Estate for this exhibition, and for its willing help and co-operation in so many ways;

and to the following for their willing assistance in making this exhibition a success:—

The Corporation of the City of Edinburgh (City Architect's Department, Parks Department, and Publicity Departments in particular);

The Lothians and Peebles Constabulary;

Penicuik High School (Headmaster, teachers and pupils);

St. Andrews Ambulance Association;

Women's Royal Voluntary Service (Scotland);

Scottish Women's Rural Institutes;

Royal Highland and Agricultural Society;

Scottish Youth Hostels Association;

Millard Brothers (Milbro) of Motherwell;

The Rover Company Ltd.;

The Scottish Information Office;

The Press, Television and Radio;

and

South-East Scotland Fire Brigade.

Special thanks also to the many different firms, organisations and bodies who have assisted in publicising the exhibition by distributing brochures, posters, etc., and also to the many individuals of our own Forestry Commission Staff who have worked so hard and enthusiastically to make this a real 'Professional' Show.

Last, but by no means least, to the very large number of firms and organisations who have supported the Forestry Commission by participating in this exhibition. We really could not have done without them.

PART OF OUR 'WOODEN WALLS'

A fascinating relic is to be seen in the Forestry Commission Section.

It is a large piece of oak weighing about 400 lbs., and is part of the timbers from H.M.S. 'VICTORY', Admiral Lord Nelson's famous flagship.

The total tonnage of H.M.S. 'Victory' at her launching in 1765 was 2,162, and most of this weight was wood, grown in the forests of Southern England.

H.M.S. 'Victory' is now on permanent display to the public at Portsmouth Royal Dockyard, as a lasting tribute to the Royal Navy and its 'Wooden Walls'. This piece of the original timbers was taken out during her 'preservation' work.

It may be interesting to note that even during World War II, certain R.N. warships were constructed almost entirely in timber as a protection against magnetic mines, before an electronic solution to the problem was developed.

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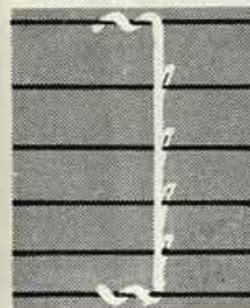
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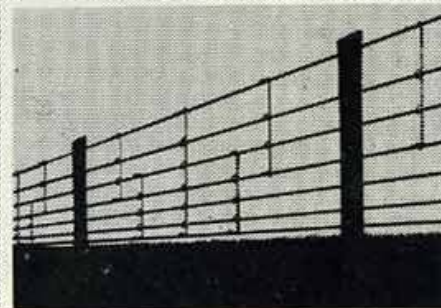
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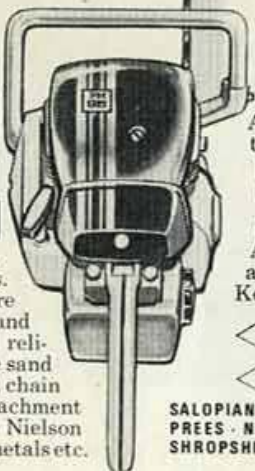
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