



FORESTRY COMMISSION

BOOKLET NO. 7

The Plan of Operations

*A Guide to the Preparation of
the Plan of Operations for
Dedicated and Approved
Woodlands*

LONDON

HER MAJESTY'S STATIONERY OFFICE

FOUR SHILLINGS NET

Forestry Commission Bulletin No. 14

FORESTRY PRACTICE

A summary of methods of establishing forest nurseries and plantations, with advice on other forestry questions for Owners, Agents and Foresters.

8th Edition 1964, revised and re-written 5s. 6d. (by post 6s. 2d.)

Published by

HER MAJESTY'S STATIONERY OFFICE

and obtainable from the Government Bookshops at the addresses listed on the back cover (post orders to P.O. Box 569, London S.E.1), or through any bookseller.

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THE
PLAN OF OPERATIONS

*A GUIDE TO THE PREPARATION OF
THE PLAN OF OPERATIONS FOR
DEDICATED AND APPROVED
WOODLANDS*

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1966

First published 1962

Second edition 1966

THE
PLAN OF OPERATIONS

A GUIDE TO THE PRACTICE OF
THE PLAN OF OPERATIONS FOR
DISASTER AND EMERGENCY
WORK

LONDON
HER MAJESTY'S STATIONERY OFFICE
1966

FOREWORD

This booklet has been prepared primarily for the guidance of landowners who have already brought, or who wish to bring, their woodlands into the Dedication or the Approved Woodland Schemes of the Forestry Commission.

INTRODUCTION

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GENERAL PRINCIPLES

(1) The Plan of Operations consists of a map of the land and plantations involved, a description and statement indicating their present condition, proposals for planting, thinning and felling in each of the next two five-year periods, and details of how and in what order of priority this work will be done. Annual record forms are provided to indicate the progress of the work.

(2) Forestry Commission Officers will be glad to carry out a preliminary inspection of the woodlands and to advise the owner or his representative on the general lines to be followed in drawing the Plan. The actual preparation of the

THE PLAN OF OPERATIONS

INTRODUCTION

(1) With the introduction of the Management Grant for dedicated woodlands in October, 1958, the opportunity was taken to re-examine the form of the standard Plan of Operations. The object was to make the form of Plan both simpler and more effective. This study has been carried out by the Forestry Commission in close consultation with representatives of the Timber Growers' Organisation and Scottish Woodland Owners' Association, who provided many valuable suggestions which have been incorporated in the new form of Plan.

(2) In re-designing the Plan the following aims were borne in mind:

- (i) the need to satisfy the statutory requirements of the Forestry Commission and enable the Commission's officers to fulfil their functions in respect of the payment of grants;
- (ii) to provide in the simplest form the minimum information needed by the private owner for the efficient management of his woods;
- (iii) ancillary to the above, to provide data comparable with those for the Forestry Commission's woods, and so facilitate the compilation of national statistics.

(3) As the great majority of woodland estates are relatively small, it is the need of these small estates which have been mainly considered. Large estates may require information additional to that supplied by the Plan of Operations. For such estates, it is worth noting that many well-tried forms, including those used by the Commission in their own working plans, are in existence.

(4) To facilitate the understanding of the new Plan of Operations, a copy set of blank forms with notes is included at the back of the booklet (see page 11). In addition, worked examples—one for a mainly coniferous area in Scotland and one for a mainly broadleaved estate in the South of England—are available to interested parties on request from the local Conservator. (For address, see inside back cover.)

GENERAL PRINCIPLES

(5) The Plan of Operations consists of a map of the land and plantations involved, a description and statement indicating their present condition, proposals for planting, thinning and felling in each of the next two five-year periods, and details of how and in what order of priority this work will be done. Annual record forms are provided to indicate the progress of the work.

(6) Forestry Commission Officers will be glad to carry out a preliminary inspection of the woodlands and to advise the owner or his representative on the general lines to be followed in drafting the Plan. The actual preparation of the

Plan and the proposed prescriptions of work to be done, however, rest entirely with the owner. It should be noted that Dedication or participation in the Approved Woodlands Scheme requires prior approval of the Plan by the Forestry Commission. Consequently a measure of consultation with the local District Officer is advisable during the preparation of the Plan.

(7) In Dedication schemes, when a draft plan of operations has been agreed and a dedication agreement/covenant has been executed, grants become payable. Principal copies of the plan are subsequently prepared and signed by both parties. In Approved Woodlands schemes, grants for work done become payable when the Plan of Operations has been signed by both parties.

(8) Both for Dedication and the Approved Woodlands scheme, three copies of the approved Plan are required. The first is deposited in the Conservancy office, the second is for the owner and the third is for the Forestry Commission Officer responsible for the private woodlands work in that area. The procedure is for the owner to draw up a draft and forward a copy to the Conservator of Forests or District Officer for the area. After any necessary amendments have been agreed, the owner is required to provide three signed copies of the plan and map(s) (see para. 27), one of which will be returned to him for his retention having been certified that it meets with the Commissioners' approval. In some cases owners may not have adequate facilities for the production of copies of the plan and maps and the Commission is prepared to undertake this work on payment of a fee.

(9) At the discretion of the Forestry Commission an inspection will be made of the year's work some time during the forest year, in order that the necessary grants may be paid.

(10) It is essential that plans of operations should always be current. Early in the fifth year details of the following five years' work will be submitted by the owner for the approval of the Conservator and early in the tenth year the plan will be completely renewed.

(11) The requisite forms and loose leaf binder are supplied free of charge. Extra sheets of any individual form will also be issued as required.

THE PLAN IN OUTLINE

Maps

(12) Every plan must be accompanied by a 6-inch Ordnance Survey map which indicates clearly the boundaries of the area and the boundaries of the compartments and subcompartments into which the area is divided; it will also give compartment numbers and areas and subcompartment letters.

(13) On large estates additional maps may be desirable for the estate's own use giving details of species and Planting Year boundaries, and also in support of planting, thinning and fire plans and road building programmes. These additional maps are most conveniently prepared on photo-copy maps.

Forms and Text

(14) The Plan includes fifteen forms which are as follows:

- G.D.1 Table of Contents.
- G.D.2 Details of ownership and certificate of approval of plan.
- G.D.3 Classification and description of the area.
- G.D.4 Description of the woodlands as a whole and other facts on which proposals are based.
- G.D.5 Objects of management.
- G.D.6 Proposed methods of working.
- G.D.7 Detailed Area analysis.
- G.D.7a Compartment Notes.
- G.D.7b Age Class Analysis by species (optional).
- G.D.8 Planting Proposals and control form.
- G.D.9 Thinning Proposals and control form.
- G.D.10 Felling Proposals and control form.
- G.D.11 Summary of work proposed and done.
- G.D.12 Annual record of planting.
- G.D.13 Annual record of thinning and felling.

PREPARING THE BASIC MAP

Deciding the Area to be Covered by the Plan

(15) The first step is to agree upon the total extent of ground to be brought under the Plan. Generally this will be the whole of the woodlands on the estate together with any bare land which the owner wishes to afforest. Sometimes particular woods may, for one reason or another, be excluded. At this early stage the owner is advised to consult the local District Officer of the Forestry Commission.

The Boundary of the Area Covered by the Plan

(16) Once the owner has decided, and the Forestry Commission has agreed, which woods and other lands should come within the Plan, the owner should demarcate clearly on the relevant Ordnance Survey 6-inch to 1 mile sheet(s) the boundaries of the areas concerned by a continuous thick black line, drawn so that the outside edge coincides with the boundary of the area (see page 12).

Dividing the Area into Compartments

(17) The next step is to divide the area covered by the Plan into compartments, which for convenience should be of a convenient size and should be numbered serially. Small woods standing by themselves may each form a separate compartment. A preliminary field survey is usually needed in order to decide on the compartment boundaries, which should follow such recognisable permanent features as roads or streams. Compartment boundaries are shown by black chain lines— — — — —.

Determining and Recording Compartment Areas

(18) Where 25-inch to the mile Ordnance Survey sheets are available, and the boundaries of the parcels of land concerned remain unchanged since their last detailed revision, the total area can be ascertained by adding up the areas shown for the separate woods or fields. Otherwise, a planimeter should be used to determine this area, from either the 25-inch or the 6-inch to one mile sheets. The total should be rounded off to the nearest acre.

(19) Next determine the area of each compartment in a similar manner, or by using a celluloid acre-grid scale, and again "round off" to the nearest acre. The areas of rides will be included in the areas of the adjacent compartments. Add up these compartment acreages to ensure that they agree with the total area covered by the Plan. If they do not agree, adjust the acreage of one or more compartments up or down by one acre as necessary. It is essential that the area shown on any Dedication Deed equals the sum total of compartment areas.

(20) The number of each compartment, and its area as determined above, must be shown on the map by setting the number over the acreage. For example, 9 over 25 indicates compartment 9 of 25 acres. This symbol should be written either within the area concerned or just outside it with a connecting arrow.

(21) Before proceeding further with the preparation of the Plan, the owner is advised to submit the map to the Conservancy or District office so that the area of compartments may be agreed. Since photo-copies of the map will subsequently be provided, it is important that the original map should be neither coloured nor folded; it should be sent rolled round a suitable cardboard or other cylinder.

PREPARING THE PLAN

(22) Once agreement has been reached on the areas of individual compartments, the preparation of the Plan proper can begin.

Taking Stock and Considering Treatment Required (G.D.7, 7a and 7b)

(23) A thorough examination of the area on the ground by compartment, or if it has been found necessary, by sub-compartment, is made in order to record on the map and in a field note book, the nature and condition of the crop and site and what is required to be done.

(24) Sub-compartments should be formed only where really necessary, because they add to the work of mapping and record keeping. For example, where variations of crop within an area are likely to be merely transitory or such variations are not easily mapped (e.g. partially stocked areas) it will usually suffice to have an estimated area break-down between the two or more crop types (for recording on Form G.D.7) without going to the extent of forming separately defined sub-compartments. It follows that sub-compartments of less than one acre are normally unnecessary.

(25) The boundaries of sub-compartments should be indicated by black broken lines but their acreages need not be recorded on the map. They should

be distinguished serially, by small letters, within each compartment. Thus compartment 1 may hold sub-compartments 1a, 1b, 1c and 1d, and compartment 2 may have sub-compartments 2a and 2b. Sub-compartment acreages, although not recorded on the map, have to be determined so that they can be recorded on the appropriate forms. It is essential that the areas of sub-compartments, which are recorded to the nearest acre, should add up to the area of the compartment of which they form part. This should be checked from the outset or troublesome errors may follow.

(26) The following minimum information should be recorded in the field note-book for each compartment or sub-compartment as appropriate:

- (a) area in acres;
- (b) type of crop or nature of area, i.e. high forest (broadleaved, mixed or coniferous), coppice (with or without standards), scrub and felled areas, bare land, unplantable areas;
- (c) species;
- (d) year of planting (if not known, an estimate should be made);
- (e) treatment required and its urgency.

This information from the field note-book is then transferred to the Compartment Notes (G.D.7a) or some other suitable register.

(27) On completion of the compartment notes or register, the map, showing sub-compartment boundaries, should be sent to the Conservancy office so that photo-copies may be made of it. Three photo-copies of the map will be made available to the owner free of charge. Additional copies are obtainable on payment.

(28) Form G.D.7, the Detailed Area Analysis, may now be completed from the information contained in the Compartment Notes or register. When entering the areas on Form G.D.7 it is necessary to check that the sub-compartment areas in each compartment add up to the compartment area as shown on the map, and that the compartment areas add up to the correct total covered by the Plan.

(29) G.D.7b, the Age Class Analysis by Species, is an optional form and its completion will be at the discretion of the owner. The information for completing this form is obtainable from the compartment notes (G.D.7a) or register.

Stating Facts on Which Proposals are Based (G.D.4)

(30) The general description on form G.D.4 is based on the field examination and estate records; it covers situation; configuration and altitude; geology and soil; climate; previous history; brief description of the woodlands; communications and rights of way; sporting interests; and any other factors affecting management.

Deciding the Objects of Management (G.D.5)

(31) Form G.D.5 calls for a brief statement of the Objects of Management that the owner has in view. The Objects of Management define the main goal to

which the whole management of the woodlands is directed. Their number and scope will vary from one estate to another depending upon local conditions and the owner's personal circumstances and intentions. Only when these goals have been clearly stated can the best methods of achieving them be worked out. That is why a careful and precise formulation of the Objects of Management is so important.

Drawing Up the Programme of Work (G.D.11, 8, 9 and 10)

(32) Having assessed the facts and what should be done, the next step is to decide at what rate the work of planting, thinning and felling should proceed and in which order of priority. It is suggested that this should be done as follows:

Planting

(33) Decide on the average acreage to be planted annually. This will depend on such factors as the total area of unproductive land requiring planting, the crops which require to be felled and replanted and the availability of labour and funds. This average annual acreage multiplied by five will give the target figure for planting over the next five years. A similar procedure will give the target area it is proposed to plant over the second five-year period of the plan.

(34) The Management Grant is payable on the total area classified as High Forest and Coppice (Cols. 3-17 of Form G.D.7) and in addition on that part of the area of Scrub, Felled, and Bare land which it is proposed to plant over the ten-year period of the plan (Cols. 18 and 19 of Form G.D.7). It is therefore necessary to distinguish in each of the five-year target figures that area which will come from land classified as High Forest and Coppice (Cols. 3-17 of G.D.7) which will be known as *Replanting* and entered accordingly on Form G.D.11, from the area which will come from land classified as Scrub, Felled and Bare land (Cols. 18 and 19 of G.D.7) which will be known as *New Planting* and so recorded on Form G.D.11.

(35) It is important to state clearly in the text of Form G.D.6 the considerations which have determined the proposed rate of planting.

(36) Having determined the average annual rate of planting and the five-yearly target, it is next necessary to draw up the detailed planting plan for the next five years, and this is done on Form G.D.8. This form details the proposals for future years, for the planting of specific sub-compartments. These proposals may be completed from the onset for the full five years ahead, or if preferred, progressively during the five-year period, looking only two to three years ahead at a time.

(37) Adequate significance should be given to the planting of areas classed as Scrub, Felled and Bare land (in view of the basis on which the Management Grant is assessed). It may prove useful, therefore, to list on Form G.D.8 in Columns 1 and 3 firstly *all* these Scrub, Felled and Bare areas scheduled for planting during the ten-year period of the plan (obtainable from Form G.D.7) followed in Columns 1 and 2 by any replanting of areas classed as High Forest or Coppice at the commencement of the plan.

Thinning

(38) Determine the total area which is at present in the thinning stage and decide the thinning cycle proposed for the crops. Dividing the latter figure into the former will give the average acreage which will require to be thinned annually. Five times this annual acreage, plus any additional areas recruited to the thinning stage during this five-year period, will consequently require to be thinned over the first five years and this figure is entered on Form G.D.11 in the appropriate column. A similar procedure will give the appropriate figure for the second five-year period which is also entered on Form G.D.11. It is important that the proposals for the thinning, both qualitatively and quantitatively, are clearly defined in the text of Form G.D.6.

(39) It is then necessary to draw up a thinning plan for the next five years and this is done on Form G.D.9. All areas in, or likely to enter into, the thinning stage during the five-year period are listed in Columns 1-4 and proposals completed to show the order of priorities in which individual sub-compartments will be thinned, bearing in mind the average acreage which requires to be thinned annually. It is not necessary for detailed priorities to be listed for the full five years from the onset. It may be preferable to list priorities for the first few years only and then gradually extend proposals to successive years in the light of past actuals.

Felling

(40) Only crops listed as High Forest and Coppice on Form G.D.7 are concerned in this operation. It is first necessary to determine the type of crops which are to be considered for felling during the ten-year period of the Plan and these should be clearly defined in the text of Form G.D.6 (e.g. for various reasons certain crops amounting to a total of so many acres are to be felled during the period of the Plan). This will enable a provisional ten-year felling target to be determined, which should be divided into two five-year periods for entry on Form G.D.11. There should naturally be a close link-up between the felling and replanting programme although the felling of an area may well precede replanting by a year or more.

(41) It is next necessary to draw up a felling plan and this is done on Form G.D.10, which details, in the proposals for future years, the order of priority for dealing with specific sub-compartments. As with the thinning plan, it may be preferable to list priorities for the first few years only and then gradually extend proposals to successive years in the light of past actuals.

Completing the Summary Area Statement (G.D.3)

(42) The area statement is derived from the summary totals on Form G.D.7.

(43) The map numbers required are those printed on the relevant Ordnance Survey six inch to one mile sheets.

Proposed Methods of Working and Arrangements for Carrying out the Work (G.D.6)

(44) The Form G.D.6 should now be completed, although obviously most of the provisions will have been decided during the preparation of Forms

G.D. 8, 9, 10 and 11. This Form deals with such subjects as general silvicultural methods; planting; thinning; felling; protective measures against fire; other protective measures; any other relevant proposals; arrangements for carrying out the work.

Completing the Plan (G.D.2 and G.D.1)

(45) Only Forms G.D.2 and G.D.1 remain to be completed and these are self-explanatory.

(46) Three copies of the Plan will be prepared based on the owner's draft. These may be prepared either by the owner or by the Forestry Commission on repayment (see para. 8). All copies will be signed by the owner and countersigned on behalf of the Forestry Commission. One copy will be returned to the owner.

(47) Where the woods are to be dedicated, the necessary Deeds can now be completed.

MANAGEMENT AND RECORD KEEPING

(48) The management of woodlands worked under a Plan of Operations lies entirely with the owner. The completion of each operation should be noted in the appropriate cols. of Forms G.D.8, 9 and 10.

(49) The "Forest Year" runs from 1st October to 30th September. Late in the forest year the local District Officer will send Form G.D.13 to the owner who will complete it in draft when the year's thinning and felling are completed, or by 30th September whichever is earlier, and return it to the District Officer. In the event of any queries arising, the District Officer will settle the matter with the owner and then prepare a final typed version of Form G.D.13 in duplicate, sending one copy to the Conservancy office, and another to the owner, retaining the original as an appendix to his copy of the Plan.

(50) The owner should get in touch with the District Officer after the year's planting has been completed, and arrange a mutually agreeable date of inspection. On completion of the inspection the District Officer will complete four copies of Form G.D.12 keeping one copy himself and sending three copies to his Conservancy Office. Subsequently the Conservancy Office will send one copy to the owner together with the planting grant. For estates dedicated under Basis I only three copies of the form will be prepared, the first of which will be sent to the owner, the second to the Conservancy Office and the third will be retained by the District Officer.

(51) At the end of the forest year the owner will arrange for the total figures of planting, thinning and felling as shown on Forms G.D.12 and 13 to be entered on the appropriate line of Form G.D.11. The District Officer and the Conservator will do the same in respect of their copies of the Plan. In this way all three copies of the Plan of Operations are kept up to date and in agreement. The owner's and District Officer's copies of G.D.12 and 13 should be filed at the back of their respective copies of the Plan.

Five-year Revisions and Ten-year Renewals of the Plan

(52) Early in the fifth year of the Plan the owner must re-assess the programme of work for the next five years and review the Plan as a whole. He is

advised to consult the Forestry Commission District Officer at this stage. This reassessment of the programme will always require the preparation of fresh forms G.D.7, 8, 9, 10 and 11. Other forms will be re-written if the information on them no longer applies. A renewal of the Plan involving all the forms and possibly also the sub-compartmenting shown on the map will be necessary only once every ten years.

SOME POINTS OF DETAIL

(53) This Section answers some of the queries which may arise during the preparation and working of the plan. Answers to other queries may be found by reference to the explanatory notes to the individual forms and worked examples. No booklet, however, can provide for every contingency in woodland management and owners are invited to consult the appropriate Forestry Commission Officer on any point about which they are in doubt.

Partial Planting

(54) When an existing forest crop is underplanted or enriched—operations sometimes referred to as “partial planting”—the *net* area treated is shown on the relevant forms (G.D.8, 11 and 12). An acceptable method of assessing the net area is by calculating the area which the number of plants actually used would have occupied had they been planted at an ordinary spacing suitable to the species.

Partial Felling

(55) This term is used to denote fellings which leave some trees standing but are sufficiently heavy to call for partial replanting. With partial felling net areas should be recorded on Forms G.D.10, 11 and 13; the net area being that proportion occupied by the trees actually felled.

Direct Sowing and Natural Regeneration

(56) Suitable direct sowing and natural regeneration are entered on the forms (G.D.8, 11 and 12) in the same way as planting and, if successful, will qualify for the same planting grants.

Coppice

(57) Coppice (for definition see explanatory note to Form G.D.7) qualifies for management grant, but the natural coppice regrowth after cutting-over does not attract planting grant. The planting of a new coppice crop would, however, be considered for the planting grant.

Unplantable Areas

(58) These are included in the Plan only where it is more convenient to manage them along with the woodlands than in any other way. Examples are small lakes or ponds and patches of bare rock.

Recording Mixtures on Form G.D.12

(59) A mixture will be recorded as either conifer or broadleaved depending on which type forms the predominant proportion of the mixture at the time of planting; no account should be taken of the possible future outcome of the mixture.

Glossary of Terms and Abbreviations

- (60) Forest Year (F.Y.) —This extends from 1st October to 30th September and takes its serial number from the calendar year in which it ends.
- Planting Year (P. Year)—The forest year in which a crop has been planted, sown or regenerated naturally.
- Ded. —Dedicated.
- Ap. W. —Approved Woodlands.
- S.W. —Small Woodlands.

SET OF FORMS

General Note

The forms are numbered and presented in the sequence which is considered the most convenient for the management of the Estate. For the preparation of the plan a different sequence is necessary. While there can be no hard and fast rule the following sequence will generally be the most convenient:

- (1) Preparation of map.
- (2) Form G.D.7(a) or equivalent, Form G.D.7.
- (3) Forms G.D.4 and 5.
- (4) Form G.D.11 together with Forms G.D.8, 9 and 10.
- (5) Forms G.D.3 and 6.
- (6) Forms G.D.2 and G.D.1.

Note that whilst the plan covers ten years, most of the forms are intended for review and possible revision at five-year intervals.

Two worked examples, the first relating to a mainly coniferous estate in Scotland, the second to a typical small broadleaved estate in the South of England, are available to interested parties on request from the office of the local Conservator.

Map Legend

- External boundaries: Internal thick black line 
- Compartment boundaries: Black chain line 
- Sub-compartment boundaries: Black broken line 
- Compartment nos. and areas: 5/19 within a circle, within compartment.
- Sub-compartment lettering: Small roman letters, a, b, c, etc. not circled, within compartment.

If compartment numbers and areas cannot conveniently be shown within a compartment, they may be "arrowed in" from the margin thereof. An appropriate size for numbers and letters is $\frac{1}{8}$ inch high; pen-stencilling is a satisfactory means of putting them in.

An example of the map legend appears overleaf.

NOTES

This form is self-explanatory.

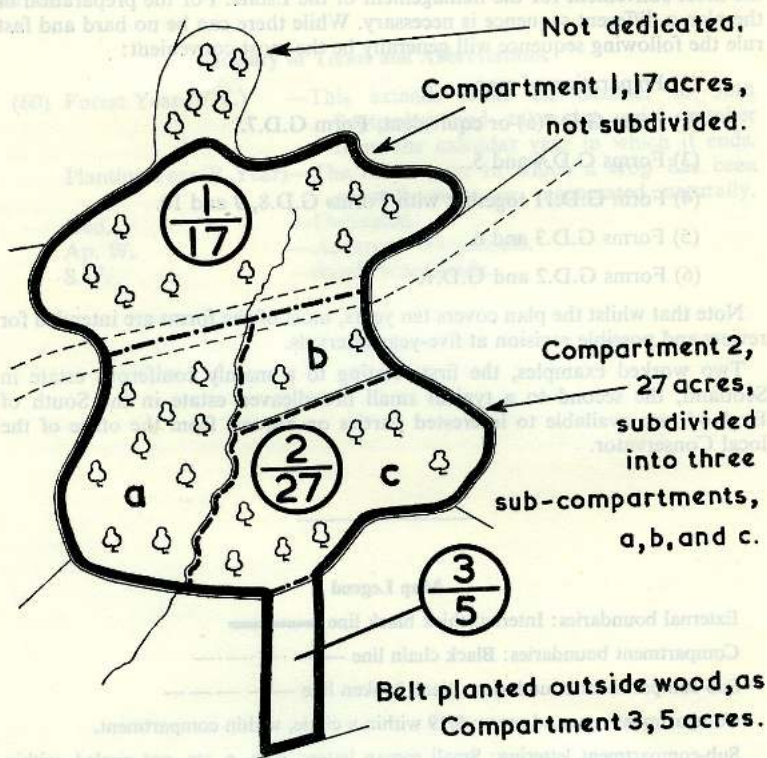


Fig. 1. Example of the Use of the Map Legend

PLAN OF OPERATIONS

FOR

*DEDICATED/APPROVED WOODLANDS

*Delete inappropriate item.

Estate:..... County(ies)

Period of Plan: 1st October, 19..... to 30th September, 19..... inclusive.

CONTENTS OF PLAN

Form Number

- G.D.2 Details of Ownership and Certificate of Approval of Plan
- G.D.3 Classification and Description of the Area
- G.D.4 Description of the woodlands as a whole and other facts on which proposals are based
- G.D.5 Objects of Management
- G.D.6 Proposed Methods of Working
- G.D.7 Detailed Area Analysis
- G.D.7a Compartment Notes
- G.D.7b Age Class Analysis by Species (optional)
- G.D.8 Planting Proposals and Control Form
- G.D.9 Thinning Proposals and Control Form
- G.D.10 Felling Proposals and Control Form
- G.D.11 Summary of Work Proposed and Done

Appendices

- G.D.12 Annual Record of Planting
- G.D.13 Annual Record of Thinning and Felling

Maps

(Not reproduced)

NOTES

This form is self-explanatory.

Form Number _____

Period of time for which the plan is valid: _____ to _____

Contents of Plan

G.D.1: Details of Ownership and Control of Plan

G.D.2: Classification and Description of the Area

G.D.3: Description of the woodlands as a whole and other factors which may be relevant

G.D.4: Outline of Management

G.D.5: Detailed Methods of Working

G.D.6: Detailed Area Analysis

G.D.7: Management Notes

G.D.8: Management by Species (optional)

G.D.9: Training Proposals and Control Form

G.D.10: Felling Proposals and Control Form

G.D.11: Summary of Work Proposed and Done

G.D.12: Annual Record of Planting

G.D.13: Annual Record of Thinning and Felling

Appendices

(Not required)

PLAN OF OPERATIONS FOR *DEDICATED/APPROVED WOODLANDS

DETAILS OF OWNERSHIP AND
CERTIFICATE OF APPROVAL OF THE PLAN

Estate: Period covered by the Plan: Ten Forest Years
1.10.19... to 30.9.19...

County: Area covered by the Plan: Acres

Parishes:

Forestry Commission Conservancy:

Owner's Name(s): Address(es):

Agent's Name: Address:

Solicitor's or
Law Agent's Name: Address:

Skilled Super-
visor's Name: Address:

*(Dedication England and Wales) This Plan of Operations is the Approved Plan referred to in the Second Schedule Clause 2 of the Forestry Dedication Deed of Covenant under Basis†... dated.....19.....

*(Dedication Scotland) This Plan of Operations is the Approved Plan referred to in the Second Clause of the Forestry Dedication Agreement under Basis† ... dated.....19.....

*(Approved Woodlands) This Plan of Operations together with the maps of the area concerned which are submitted herewith and signed as relative hereto, are an Approved Plan within the meaning of Section 10 of the Forestry Act 1951.

Signature(s) of the Owner(s) or Authorised Agent:

(Signed):19.....
(date)

(Signed):19.....
(date)

(Signed):19.....
(date)

Signature for the
Forestry Commissioners:

Authorised by the Forestry Commissioners

Date:19.....

*Delete each appropriate item.

†State whether Basis I or II.

NOTES

- (1) The area statement is derived from the summary totals on form G.D.7.
- (2) All maps must bear the name of the estate and be signed by both parties as relative to the plan of operations.

PLAN OF OPERATIONS: FOREST YEARS.....TO.....

ESTATE:.....

CLASSIFICATION AND DESCRIPTION OF THE AREA

As at 1st October, 19.....

(a) Summary Area Statement:

Effectively Managed Woodlands:

Areas	Total Area:
	(to nearest acre)

- | | |
|--|-------|
| (i) High Forest | |
| (ii) Coppice (including Coppice with Standards) for continued working as coppice | |
| (iii) Land other than areas classed under (i) and (ii) above, to be planted within the ten-year Period of Plan | |

Total area of Effectively Managed Woodlands (Qualifying for Management Grant in Basis II Dedicated Estates)

Other Land:

- | | |
|---|-------|
| (iv) Land to be planted after ten-year Period of Plan | |
| (v) Unplantable Areas | |
| Total Area | |

(b) **Maps of the Area:** The relevant maps of the area, or photoprinted copies thereof, are on Ordnance Survey six-inch to one mile sheets numbered:.....

.....
and form an Appendix to this Plan of Operations.

(c) *Particulars of other Dedicated Estates in the Same Ownership

Name of Estate	Area Dedicated (acres)	Conservancy
----------------	---------------------------	-------------

*To be completed for Basis II Dedicated Estates only.

NOTES

(1) This form is self-explanatory.

CLASSIFICATION AND DESCRIPTION OF THE AREA

As at 1st October, 19.....

(a) Summary Area Statement:	Area	Total Area
Effectively Managed Woodlands:	Area	(to nearest acre)
(i) High Forest		
(ii) Coppice (including coppice with standards) for commercial purposes		
(iii) Land other than areas classed under (i) and (ii) above to be planted within the ten-year period of Plan		
Total area of Effectively Managed Woodlands (Conting for Management Grant in Item II Dedicated Estates)		
Other Land:		
(iv) Land to be planted after ten-year period of Plan		
(v) Unplanted Areas		
Total Area		

(b) Maps of the Area: The relevant maps of the area or photostatic copies thereof are on Ordnance Survey six-inch to one mile sheets numbered.....

and form an Appendix to this Plan of Operations.

(c) *Particulars of other Dedicated Estates in the Same Ownership

Name of Estate	Area Dedicated	Comments
(acres)		

*To be completed for Item II Dedicated Estates only.

PLAN OF OPERATIONS: FOREST YEARSTO.....

ESTATE:.....

**DESCRIPTION OF THE WOODLANDS AS A WHOLE AND OTHER FACTS
ON WHICH PROPOSALS ARE BASED**

(The following points should be covered: situation, configuration and altitude, geology and soil, climate, previous history, description of woodlands, communications and rights of way, sporting interests, any other factors affecting management.)

NOTES

Form G.D.5 calls for a brief statement of the long-term objects of management that the owner has in view.

Examples of such objects are:

- (a) To secure a regular income from the woodlands.
- (b) To build up a reserve of capital in the form of standing timber.
- (c) To secure the highest possible return on the capital invested in the woodlands.
- (d) To supply timber for estate building, fencing and maintenance.
- (e) To improve and maintain shelter for agricultural land.
- (f) To preserve scenic amenities.
- (g) To provide cover for game.
- (h) To meet a particular outside demand for timber.

NOTES

(Sheet No.)

The following points should be covered, stating reasons, quantities and priorities where appropriate:

PLAN OF OPERATIONS: FOREST YEARS..... TO.....

ESTATE:.....

OBJECTS OF MANAGEMENT

- (1) General silvicultural methods.
- (2) Planning factors governing rate of planting, choice of species, planting distances, type of forest, etc.
- (3) Thinning (general principles, cycle, guide, etc.).
- (4) Felling (types of crops to be felled and methods of felling).
- (5) Protective measures against fire, including management with local fire brigades.
- (6) Any other protective measures (e.g. against rabbits and squirrels, fungi such as *Phoma* canker, insect attack).
- (7) Any other relevant proposals (e.g. rearing).
- (8) Arrangements for felling work done (supervision, labour, machinery and other equipment, plant supplies, etc. and any instructions to staff).

NOTES

The following points should be covered, stating reasons, quantities and priorities where appropriate:

- (1) General silvicultural methods.
- (2) Planting (factors governing rate of planting, choice of species, planting distances, types of fences, etc.).
- (3) Thinning (general priorities, cycle, grade, etc.).
- (4) Felling (types of crops to be felled and methods of felling).
- (5) Protective measures against fire, including arrangements with local fire brigades.
- (6) Any other protective measures (e.g. against rabbits and squirrels, fungi such as *Fomes annosus*, insect attack).
- (7) Any other relevant proposals (e.g. roading).
- (8) Arrangements for getting work done (supervision, labour, machinery and other equipment, plant supplies, etc. and any instructions to staff).

ESTATE:.....

PROPOSED METHODS OF WORKING

NOTES

(1) Land Classification

- (i) **High Forest** includes all stands, irrespective of age, that carry a reasonable crop of timber trees. Coppice growth, if suitable, and intended for conversion to high forest (i.e. without replanting), should also be classed as high forest, and so should crops in which a reasonable stocking of standards occurs among unworked coppice. Conditions may vary and consequently to try to give a precise definition based on percentage stocking or "productivity" is undesirable. In doubtful cases owners should consult the Forestry Commission.
- (ii) **Coppice**. This is coppice growth averaging more than two stems per stool which is suitable for, and in the process of, e.g. being worked or about to be worked on a proper coppice rotation. If the coppice not being worked *is to be converted into high forest by replanting*, it should be classified as *scrub*.
The presence of standards over *worked* coppice is recorded by entering the area in Column 16 as opposed to Column 17.
- (iii) **Scrub** is woody growth too inferior to be classed as high forest or coppice.
- (iv) **Felled** areas are those unstocked areas which have not been converted to agricultural or other land use and still bear evidence of having been woodland.
- (v) **Bare land** in this context is land which shows no signs of having been woodland.
- (vi) **Unplantable** areas are, for example, rocky outcrops.
- (2) A sub-compartment may contain land of more than one classification which is not readily definable on the ground. In this case an estimate should be made of the area occupied by each type of land classification and recorded accordingly on the form.
- (3) Age Class Distribution has been recorded by forest year of planting rather than by actual age groups to facilitate periodic revisions of the plan and the compilation of national statistics. The age class distribution gives an approximation of crops in (a) up to the thicket stage; (b) early thinning stage; (c) late thinning stage; (d) final crop stage.
- (4) Columns 18 and 19 record the areas of scrub, felled and bare land it is proposed to plant in the ten-year period of the Plan, i.e. governs the acreage eligible for the Management Grant.
- (5) **Remarks**. This column could be used to indicate the main species in the sub-compartment.

as at 1st October, 19.....

Areas to nearest acre

PLAN OF OPERATIONS: FOREST YEARS.....TO

ESTATE

[illegible]

G.D.7a

ESTATE

[illegible]

NOTES

(1) The object of this optional form is to provide the necessary data for long-term forecasts of production.

(2) Species should be listed in the following order:

Scots pine	— S.P.	Wellingtonia (<i>Sequoiadendron</i>	
Corsican pine	— C.P.	<i>giganteum</i>)	— We.
Lodgepole pine (<i>Pinus</i>		Californian redwood (<i>Sequoia</i>	
<i>contorta</i>)	— L.P.	<i>sempervirens</i>)	— R.W.
Other pines		Other conifers (specify)	
Sitka spruce	— S.S.	Pedunculate oak	— Oak P.
Norway spruce	— N.S.	Sessile oak	— Oak S.
Other spruces		Red oak	— Oak R.
European larch	— E.L.	Beech	— Be.
Japanese larch	— J.L.	Sycamore	— Syc.
Hybrid larch	— H.L.	Ash	— Ash
Douglas fir	— D.F.	Birch	— Bi.
Western hemlock (<i>Tsuga</i>		Spanish chestnut	— S. Ch.
<i>heterophylla</i>)	— W.H.	Poplar	— Po.
Western red cedar (<i>Thuja</i>		Alder	— Al.
<i>plicata</i>)	— R.C.	Lime	— Li.
Lawson cypress	— L.C.		
Grand fir (<i>Abies grandis</i>)	— G.F.		
Noble fir (<i>Abies procera</i>)	— N.F.		

- (3) A stand will be recognised as pure when one species occupies 80 per cent or more of the area by canopy or number of stems, whichever is appropriate.
- (4) For mixtures, each individual species in a mixture will be credited with an area based on the proportion of the stand it occupies by canopy or number of stems, whichever is appropriate, e.g. a ten-acre stand of 50 per cent Norway spruce and 50 per cent Oak should be recorded as five acres pure N.S. and five acres pure Oak.
- (5) Uneven-aged stands are those in which (a) at least 20 per cent of the stocking by canopy differs in age from the remainder of the stand; and (b) this difference in age exceeds either twenty years or 20 per cent of the age of the oldest trees.
- (6) Crops in which pre-1900 and post-1900 age groups each occupy at least 20 per cent of the canopy should be recorded in column 17.

NOTES

- (1) It is important that the proposed annual rate of planting, and the priorities of the type of land to be planted during the period of the plan, should be clearly defined on Form G.D.6 (Proposed Methods of Working). This, together with Form G.D.11 which gives the five-yearly targets, will form the basis on which the Plan will be assessed by the Forestry Commission.
- (2) This form may be regarded as indicating priorities for planting within the five-year period down to specific sub-compartments. They are not, however, intended as rigid prescriptions. Consequently, while one owner may be able to detail his priorities with reasonable accuracy for the whole of the five-year period from the outset, another owner may find it adequate to look only two or three years ahead. The form is essentially a working paper and should be used by the owner to his best advantage.
- (3) Adequate significance should be given to the planting of areas classed as *scrub*, *felled* and *bare land* (in view of the basis on which the Management Grant is assessed). It may prove useful, therefore, to list firstly in Columns 1 and 3 *all* these scrub, felled and bare areas scheduled for planting during the ten-year period of the Plan (obtainable from Form G.D.7) followed in Columns 1 and 2 by any replanting of areas classed as *High Forest* or *Coppice* at the commencement of the Plan.
- (4) With partial planting it is the *net* area proposed, and then actually planted, which should be recorded; the net area being the area which would be occupied by the number of plants used in the replanting if they were planted at the ordinary spacing suitable for the species.

G.D.9

Acre to nearest acre	Volumes in hoppus feet over bark
1	100
2	200
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000
11	1100
12	1200
13	1300
14	1400
15	1500
16	1600
17	1700
18	1800
19	1900
20	2000
21	2100
22	2200
23	2300
24	2400
25	2500
26	2600
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500
66	6600
67	6700
68	6800
69	6900
70	7000
71	7100
72	7200
73	7300
74	7400
75	7500
76	7600
77	7700
78	7800
79	7900
80	8000
81	8100
82	8200
83	8300
84	8400
85	8500
86	8600
87	8700
88	8800
89	8900
90	9000
91	9100
92	9200
93	9300
94	9400
95	9500
96	9600
97	9700
98	9800
99	9900
100	10000

PLAN OF OPERATIONS: FOREST YEARS.....TO.....

G.D.9

Forest or

- cluded on

NEW RELATIVE

Areas to nearest acre.

Volumes in hoppus feet over bark

PLANS OF OPERATIONS: FOREST YEARS 10

110

Totals:

NOTES

- (1) The objects of this form are to state the proposals for planting, thinning and felling for the ten-year period of the Plan and to show whether or not the progress of work is up to schedule in the current five years.
- (2) This form will be used for both the initial preparation of the Plan and also for the fifth-year review, being suitably amended as indicated in the footnotes. Lines 9 and 10 are completed only at the fifth-year review and indicate achievement against programme for the first five-year period. Consequently the entries on lines 9 and 10 are identical to those on lines 1 and 7 respectively of the G.D.11 used for the preceding five years. Provision is also made on line 8 for the recording, at the fifth-year review, of a tentative forecast for the first five years of the next plan. This is intended to assist in continuity of management.
- (3) The entries for work proposed must be agreed between the owner and the Forestry Commission at the time the plan is prepared. They are obtained by assessing five-year targets attainable by a steady annual programme having regard to the facts set out in Form G.D.7 and to the availability of labour, funds, etc.
It is suggested that these five-year targets should be determined by the sequence set out in paras (32) to (41) of this booklet.
- (4) **Replanting**, Column 2, refers to the planting of areas classified as *High Forest* or *Coppice* on Form G.D.7.
New Planting, Column 3, refers to the planting of areas classified as *scrub*, *felled* and *bare land* on Form G.D.7. This distinction is necessary because of the basis on which the management grant is assessed. It follows that the total area of New Planting for the two five-year periods must equal the sum of Columns 18 and 19 on Form G.D.7.
- (5) The entries for work done each year are obtained as follows:
 - (i) *Planting*: from the annual record of planting (G.D.12).
 - (ii) *Thinning and Felling*: from the annual record of thinning and felling (G.D.13).

SUMMARY OF WORK PROPOSED AND DONE DURING THE FIVE FOREST YEARSTO.....

Areas in acres
Volumes in hoppus feet
over bark

(1)

	Planting			Thinning		Felling		REMARKS (8)
	Replanting	New Planting	Area	Area	Volume	Area	Volume	
(1) Work proposed for Yrs 1-5 F.Y. to F.Y. Yrs 6-10*	Area (2)	Area (3)	Area (4)	Volume (5)	Area (6)	Volume (7)		ESTATE: TO PLAN OF OPERATIONS: FOREST YEARS TO

(2) Work done F.Y.

(3) Work done F.Y.

(4) Work done F.Y.

(5) Work done F.Y.

(6) Work done F.Y.

(7) Totals of work done for 5 years
F.Y. to F.Y.

37

(8) Work proposed for Years 6-10
F.Y. to F.Y. 1st 5 years of
next Plan

*At inception of Plan delete "Years 6-10" in line 1; and "1st five years of next Plan" in line 8.
At fifth-year review delete "Years 1-5" in line 1; and "Years 6-10" in line 8.

FOR USE ONLY AT THE FIFTH-YEAR REVIEW

(9) Work which was proposed for Years 1-5 F.Y. to F.Y.								
(10) Work done during Year 1-5								

- (1) This annual record of planting is prepared by the Forestry Commission after the owner has notified the completion of his planting.
- (2) The owner will be sent a copy of this form, and in the case of estates dedicated under Basis II and Approved Woodlands estates, it will be accompanied by the planting grant payment.
- (3) The form should be filed as an appendix to the plan.

RECORD OF PLANTING DONE DURING F.Y.....
AND PLANTING GRANT CERTIFICATE

1. Estate..... File.....

County Scheme No. (Ap.W. & S.W. only).....

[illegible]

delete inapplicable headings.

10. I certify that the Ded./Ap.W./S.W. planting has been carried out satisfactorily during F.Y.
 † has been satisfactorily maintained for five years in accordance with the regulations and as detailed above.

† delete as appropriate.

(Signature of Inspecting Officer)

(Date)

FORESTRY COMMISSION (For official use only)

11. Cheque payable to:

12. Despatch cheque to:

13. Payment of total amount shown at Col. 8 above approved

.....
(for Conservator)

(Date)

P.W. Section		Accounts Section		
14. A/c No.	15. Records Noted	16. Passed for payment	(Accountant)	(date)
	(intls.)	17. Payment made (intls.)	(date)	18. Cheque No.

NOTES

This form should be completed by the owner at the end of each forest year and sent to the local Forestry Commission District Officer who will return a copy of the form after any necessary inspection of the work and amendments. The returned copy should be filed as an appendix to the plan. A 'nil' return should be sent if appropriate.

Part I.

The areas of thinning and felling are net, i.e. where there has been a partial thinning in a mixture, leaving some species unthinned, only the net area occupied by the species actually being thinned should be recorded. Similarly where a partial felling has taken place, for example prior to group planting, only the area actually occupied by the felled trees should be recorded.

The species shown should relate to the volumes removed, not to the stocking on the ground. For example, if in a mixture of oak, larch and Norway spruce, thinning were confined to the last two species, only these would be shown, together with the appropriate volume for each.

Firewood should **not** be included unless it is not possible to separate its volume from the volume of the main products.

Part II

Part II is an analysis of Part I by broad production categories, except that it should also include material derived from areas which are not classified as "high forest" or "coppice" on form G.D.7, and which are not recorded in Part I. Apart from this, the total volumes in Parts I and II should agree.

The material to be listed includes trees sold standing or felled; logs and pole wood, pulpwood, pitwood and fencing material. Firewood should only be listed if its volume has already been recorded in Part I. Material which has been felled but not sold should be included.

Class A includes all material for sale in the round. Examples are sawlogs, pitprops, pulpwood and round fencing stakes, whether or not pointed. Cleft fencing material should also be included in Class A.

Class B should include all material felled for estate use or for conversion in estate sawmills, including portable sawmills, before sale or use on the estate (e.g. sawn mining timber, sawn fencing material, deals, battens and boards etc.). Please note that the volumes to be entered are the volumes of material before conversion to the end products.

There may occasionally be doubt as to whether a particular lot should be listed in Class A or Class B; material should only be listed in class B if the method of sale is such that it has not, or will not, be offered for sale as round timber or poles.

Details of Measure

The total volume in hoppus feet over bark should be given. If sold by some other measure please estimate the equivalent in hoppus feet over bark (by using bark percentages from Forestry Commission volume tables; tonnage wood at 30 hoppus feet per ton or a more accurate conversion factor if known; piled wood at the appropriate conversion factor, e.g. 108 hoppus feet per piled cubic fathom when sold to certain chipboard manufacturers on that basis (i.e. the 50% rule); cordwood at 60 hoppus feet per cord; etc.).

The division of material in Part II into "Sawlogs" or "Other" should be decided by the end use for which the material was sold, where this is known. In the absence of actual knowledge as to the end use the following definition of sawlogs should be used for purposes of this return:—

- Conifer Sawlogs* (a) Logs or trees which are sold to a sawmill
or (b) Logs or trees with a volume of over 10 hoppus feet
or (c) Trees with a breast height quarter-girth of more than $7\frac{1}{2}$ inches.

Hardwood Sawlogs (a) Logs or trees which are sold to a sawmill

or (b) Logs or trees with a volume of over 20 hoppus feet

or (c) Trees with a breast height quarter-girth of more than 10 inches.

If necessary the division of a bulk lot between size classes should be estimated but a high degree of accuracy is not necessary. If a high proportion of a lot is in one size class the whole of that lot should be included in that class (e.g. there is no need to estimate the proportion of "Other" in a hardwood felling which mainly consists of "Sawlogs"). If the material in any lot is close to the dividing line between the "Sawlogs" and "Other" categories, or if for any reason, there is doubt as to which category it should go into, it can be listed in either at the owners' discretion. The classification is intended to be between sawlogs or material of a similar size and other material (such as pulpwood, pitwood, fencing material etc.) rather than between any precise girth limits.

N.B. Except in Dedicated estates, the thinning and felling prescribed must be authorised by a licence issued by the Forestry Commission.

Table 1. (continued) Volume in hoppus feet									
Lot No.	Species	Girth	Height	Volume	Girth	Height	Volume	Girth	Height
101	100	100	100	100	100	100	100	100	100
102	100	100	100	100	100	100	100	100	100
103	100	100	100	100	100	100	100	100	100
104	100	100	100	100	100	100	100	100	100
105	100	100	100	100	100	100	100	100	100
106	100	100	100	100	100	100	100	100	100
107	100	100	100	100	100	100	100	100	100
108	100	100	100	100	100	100	100	100	100
109	100	100	100	100	100	100	100	100	100
110	100	100	100	100	100	100	100	100	100
111	100	100	100	100	100	100	100	100	100
112	100	100	100	100	100	100	100	100	100
113	100	100	100	100	100	100	100	100	100
114	100	100	100	100	100	100	100	100	100
115	100	100	100	100	100	100	100	100	100
116	100	100	100	100	100	100	100	100	100
117	100	100	100	100	100	100	100	100	100
118	100	100	100	100	100	100	100	100	100
119	100	100	100	100	100	100	100	100	100
120	100	100	100	100	100	100	100	100	100
121	100	100	100	100	100	100	100	100	100
122	100	100	100	100	100	100	100	100	100
123	100	100	100	100	100	100	100	100	100
124	100	100	100	100	100	100	100	100	100
125	100	100	100	100	100	100	100	100	100
126	100	100	100	100	100	100	100	100	100
127	100	100	100	100	100	100	100	100	100
128	100	100	100	100	100	100	100	100	100
129	100	100	100	100	100	100	100	100	100
130	100	100	100	100	100	100	100	100	100
131	100	100	100	100	100	100	100	100	100
132	100	100	100	100	100	100	100	100	100
133	100	100	100	100	100	100	100	100	100
134	100	100	100	100	100	100	100	100	100
135	100	100	100	100	100	100	100	100	100
136	100	100	100	100	100	100	100	100	100
137	100	100	100	100	100	100	100	100	100
138	100	100	100	100	100	100	100	100	100
139	100	100	100	100	100	100	100	100	100
140	100	100	100	100	100	100	100	100	100
141	100	100	100	100	100	100	100	100	100
142	100	100	100	100	100	100	100	100	100
143	100	100	100	100	100	100	100	100	100
144	100	100	100	100	100	100	100	100	100
145	100	100	100	100	100	100	100	100	100
146	100	100	100	100	100	100	100	100	100
147	100	100	100	100	100	100	100	100	100
148	100	100	100	100	100	100	100	100	100
149	100	100	100	100	100	100	100	100	100
150	100	100	100	100	100	100	100	100	100
151	100	100	100	100	100	100	100	100	100
152	100	100	100	100	100	100	100	100	100
153	100	100	100	100	100	100	100	100	100
154	100	100	100	100	100	100	100	100	100
155	100	100	100	100	100	100	100	100	100
156	100	100	100	100	100	100	100	100	100
157	100	100	100	100	100	100	100	100	100
158	100	100	100	100	100	100	100	100	100
159	100	100	100	100	100	100	100	100	100
160	100	100	100	100	100	100	100	100	100
161	100	100	100	100	100	100	100	100	100
162	100	100	100	100	100	100	100	100	100
163	100	100	100	100	100	100	100	100	100
164	100	100	100	100	100	100	100	100	100
165	100	100	100	100	100	100	100	100	100
166	100	100	100	100	100	100	100	100	100
167	100	100	100	100	100	100	100	100	100
168	100	100	100	100	100	100	100	100	100
169	100	100	100	100	100	100	100	100	100
170	100	100	100	100	100	100	100	100	100
171	100	100	100	100	100	100	100	100	100
172	100	100	100	100	100	100	100	100	100
173	100	100	100	100	100	100	100	100	100
174	100	100	100	100	100	100	100	100	100
175	100	100	100	100	100	100	100	100	100
176	100	100	100	100	100	100	100	100	100
177	100	100	100	100	100	100	100	100	100
178	100	100	100	100	100	100	100	100	100
179	100	100	100	100	100	100	100	100	100
180	100	100	100	100	100	100	100	100	100
181	100	100	100	100	100	100	100	100	100
182	100	100	100	100	100	100	100	100	100
183	100	100	100	100	100	100	100	100	100
184	100	100	100	100	100	100	100	100	100
185	100	100	100	100	100	100	100	100	100
186	100	100	100	100	100	100	100	100	100
187	100	100	100	100	100	100	100	100	100
188	100	100	100	100	100	100	100	100	100
189	100	100	100	100	100	100	100	100	100
190	100	100	100	100	100	100	100	100	100
191	100	100	100	100	100	100	100	100	100
192	100	100	100	100	100	100	100	100	100
193	100	100	100	100	100	100	100	100	100
194	100	100	100	100	100	100	100	100	100
195	100	100	100	100	100	100	100	100	100
196	100	100	100	100	100	100	100	100	100
197	100	100	100	100	100	100	100	100	100
198	100	100	100	100	100	100	100	100	100
199	100	100	100	100	100	100	100	100	100
200	100	100	100	100	100	100	100	100	100

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