

916066

REFERENCE

FORESTS DEPARTMENT.

r 10610/25

FILE NO.

1203/27

Working Plan No. 40

Subject:

General Working Plan for Karri Forests

Original copy

THIS SHEET NOT TO BE WRITTEN ON.

FOREST SCIENCE LIBRARY, KENSINGTON

REF
630.62
(941)
WES



916066

Working plan no. 40 : general working plan for
Karri forests / Forests Department

DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT

GENERAL.

Departmental No. 1203/27

Executive Council No.

Minute Paper for the Executive Council.

I recommend the Cabinet to advise His Excellency the Governor in Council to approve in accordance with Section 31 of the "Forests Act, 1918", of the annexed General Working Plan in respect of Karri timber on State Forest Timber Reserve and other Crown Land.

Such Working Plan to come into operation on 1st September, 1927, and to remain in force for a period of ten years.

CONSERVATOR OF FORESTS.

P. L. Keen

P. L.

MINISTER FOR FORESTS.

THE

Approved by His Excellency in Council and entered on the Minutes of the Executive Council accordingly.

J. J. H. H. H.

Clerk of the Council.

GENERAL WORKING PLAN FOR KARRI FORESTS.

PURPOSE.

The purpose of this Working Plan, prepared in accordance with Section 31 of the "Forests Act, 1918", is to specify for a period of ten years the maximum quantity of Karri timber (*Eucalyptus diversicolour*) which may be cut annually from State Forests and timber reserves and other Crown land carrying merchantable Karri timber, which it is intended shall be gazetted as State Forests or Timber Reserves as the classification required under Section 19 of the said Act is finalised.

VOLUME AVAILABLE.

The information set out more fully in the attached Schedules A and B concerning the total volume of Karri timber available on areas shown on attached plans A, B and C may be summarised as follows :-

Volume of merchantable Karri timber on country at present held under Saw-milling Permit.	x	141,780,000 cu.ft.
Volume of timber on country in proximity to above permit areas which may be considered as accessible to existing mills.	x	1,140,000 cu.ft.
Volume of timber on other country classified.	x	108,730,000 cu.ft.
Estimate of Karri timber on other areas of sufficient size to render milling possible on which the classification work has not been completed. (This country lies principally between the Deep and Frankland Rivers).	x	50,000,000 cu.ft.
Total		- 301,650,000 cu.ft.

x
Above figures represent volume in log based on method specified under Regulation No. 32C.

PRESENT CONSUMPTION OF KARRI TIMBER.

The mills established on permit areas referred to are not engaged in cutting only Karri timber. The attached list shows the volume of log timber required annually to keep these mills working at full capacity :-

Pemberton Mill	-	3,310,000 cu.ft.
Manjimup Mill	-	1,500,000 cu.ft.
Nannup Mill	-	1,650,000 cu.ft.
Jarnadup Mill	-	1,190,000 cu.ft.

The total log requirements of these mills amounts to 7,650,000 cubic feet per annum, giving a total life of 17 years on accessible country, if working full time cutting only Karri.

In order to provide for the early removal of marketable timber from land required for closer settlement between the Deep and the Frankland Rivers, a proposal for the early establishment of a 50 load mill, requiring 2,000,000 cubic feet of log timber annually, is under consideration, and for the purpose of this Working Plan, such mill will be treated on the same lines as mills already established.

ROTATION.

This will be fixed provisionally at 100 years. Further information is required concerning rate of growth and the utilisation value of rapidly grown comparatively young Karri timber.

Increment will not enter into calculations of yield in this Plan, as the whole of the forest to be cut is a virgin mature stand. Practically all immature timber is destroyed in logging operations and in consequence the silvicultural treatment adopted amounts to clear felling.

This Plan can only be considered sound until such time as the areas to be permanently dedicated as State Forests for the growing of Karri as a regular crop are finally decided, when the permissible cut will need to be adjusted.

ANNUAL CUT.

The allowable cut with a total stand of 301,650,000 cubic feet on a rotation of 100 years is approximately 3,000,000 cubic feet per annum.

Although the volume of Karri logs sawn last year amounted only to 4,571,000 cubic feet, it is evident that cutting rights have been granted which render it possible for permit holders to draw 9,650,000 cubic feet per annum from the forest.

It is evident that for the period of this Plan (10 years) over production is inevitable.

PRESCRIPTION.

(1) Existing mills and permits.

(a) A provision shall be inserted in all permits specifying that the intake capacity of existing mills shall not be increased, and that no additional mills shall be erected.

(b) The inclusion of additional country in existing permits shall be limited to areas considered for topographical reasons to belong to natural logging sections, the greater part of which is already within the boundaries of the permit area. Subject to the provisions of the Forests Act and Regulations, opportunity shall be taken at the time such inclusions are made to effect other amendments to the boundaries excising small areas belonging to other natural logging sections not within the permit area. The granting of cutting rights over additional country shall further be subject to the permit holder being required to reduce the

size of the existing mill to the smallest capacity which can be economically worked.

- (2) Karri forest over which cutting rights have not already been granted.

Such forests shall be divided into natural logging sections which shall be of sufficient size to justify the expenditure necessary to establish a mill capable of handling Karri logs. With exceptions already noted, ^{of} small areas belonging to natural logging sections already held under ^{(2) of country between the Deep & Frankland Rivers} permit, no further cutting rights over ^{other} additional country shall be made available for the period of this Plan.

REFORESTATION PROPOSALS.

No reforestation operations shall be undertaken on any cut over Karri country until a complete Working Plan is prepared for the specific area concerned. The statement hereunder is intended to indicate only the rate such work should proceed and area necessary to provide a sustained yield of Karri timber to replace existing stands of virgin Karri. If, as a safe estimate, it is allowed that a yield of 3,000 cubic feet per acre of Karri timber may be expected on a rotation of 100 years, it will be necessary to cut over 1,000 acres annually to secure 3,000,000 cubic feet of log timber.

This area multiplied by the rotation of 100 years ^{acres} will require 100,000/ of State Forests carrying Karri timber to provide for sustained yield.

Pending the collection of more complete data the objective to be aimed at in this connection shall be accepted as -

- (a) Area of prime Karri country to be dedicated as State Forest - 100,000 acres.
- (b) Area of cut over Karri forest to be treated for regeneration - 1,000 acres.

Although early steps are necessary to provide for the dedication of the area specified in para. (a), the extent of which regeneration work is feasible will depend on the extent to which cutting operations during the period of the plan are carried out on land to be subdivided for settlement after the timber is removed compared with the volume obtained from State Forests.

PROVISION FOR REVISION AND RELATION TO KARRI
WORKING PLANS FOR SPECIFIED AREAS.

Should the Government decide that in order to provide land for closer settlement, steps shall be taken to accelerate the rate of removal of the marketable Karri timber from any specified area of Timber Reserve or Crown land, a report shall be prepared setting out the effect such additional cutting will have on the limited reserves of Karri timber, and, in the event of the Government deciding to proceed with such proposal, this Working Plan shall be amended forthwith.

As areas of Karri forest dealt with in this Plan are dedicated State Forest or gazetted Timber Reserves under the "Forests Act, 1918", steps shall be taken to make a more complete topographical survey and volume assessment.

The results of such work shall be set out in a more detailed Working Plan for each forest, provided such Plan shall not conflict with the general provisions specified in this Plan. If the assessment indicates a need for revision of the schedules of this Plan sufficiently great to affect the allowable annual cut, such amendment shall be included forthwith and not held over until the periodic revision at the end of 10 years.

ESTIMATED VOLUME OF KARRI TIMBER REMAINING ON EXISTING PERMIT AREAS AND ON COUNTRY ACCESSIBLE TO EXISTING MILLS.
(KARRI CLASSIFICATION FIGURES TAKEN AS IN THE ROUND).

Plan	Existing Permit		Size of Mill erected		Size of mill proposed		Block	Area of Block	VIRGIN BUSH			VIRGIN BUSH		
			Daily sawn output	Annual requirements of logs.	Daily sawn output	Annual requirements of logs.			Remaining on existing Permit.			Falling naturally into Permit.		
	No.	Name of Holder							Volume in the round	Average per acre	Life of mill	Volume in the round	Average per acre	Life of proposed mill
			Loads	cu.ft.	Loads	cu.ft.		Acres	cu.ft.	Loads	Yrs.	Cu.ft.	Loads	Years
A	86/11 & 310	State Saw Mills	40	1,500,000	-	-	A	73,000	36,480,000	43	24			
					40	1,500,000	B	44,000	17,500,000	35	11½			
A	85/11	do.	88	3,310,000	-	-		64,400	75,200,000	27	23			
C	61/11	Kauri Timber Co. Ltd.	44	1,650,000	-	-	A	26,730	5,100,000	30	3	500,000	20	½
					B	16,500	-	-	-	640,000	20	½		
A	42/11	Wilgarup Karri & Jarrah Co. Ltd.	32	1,190,000	-	-	-	11,200	7,500,000	30	6½			
				7,650,000					141,780,000					

ESTIMATED VOLUME OF KARRI TIMBER ON COUNTRY CLASSIFIED BUT NOT HELD UNDER PERMIT.

Plan	Block No.	Area of Block	MILL CAPACITY		Volume of Karri in the round.	Average per acre.	Life of Mill	REMARKS.
			Daily sawn output	Annual requirements of logs.				
		Acres	Loads	cubic ft.	cubic feet.	Loads	Years	
B	1	35,000	20	750,000	14,850,000	25	19	All Karri classification figures taken as in the round.
B	2	23,500	20	750,000	35,000,000	35	46	
B	3	15,000	20	750,000	11,250,000	25	15	Timber on group areas omitted.
B	4	11,000	20	750,000	5,505,000	30	7	
B	5	30,000	20	750,000	25,450,000	28	34	
B	6	40,000	20	750,000	16,675,000	23	22	