

DEELLINGUP 31

R.F.O. WALLACE.

6th November

53

DEELLINGUP

LITTER STUDIES - WANDOO FOREST.

On the 26th and 27th ult., a litter plot was established in Virgin Wandoo Forest in the Boddington district. This plot is to be used for several years to measure the annual litter fall in the Wandoo Forest.

PLOT LOCATION.

A one and a half acre plot was laid out in Location 3961/93. (T.J.H. Fawcett) Plan 384 A/40, along the Boddington-Quindanning road, approximately 16 miles from Boddington. (See attached plan).

PLOT DESCRIPTION.

The plot forms part of a small area of virgin Wandoo Forest, and it is rather interesting that all size classes of Wandoo from seedlings to old over-mature trees occur on the area.

The position of each tree on the plot was determined and the crown diameter estimated using a plumb bob.

From this data, a crown plan was prepared and is held at the Research Station, and on the plot the canopy cover is 39%. The crown plan shows that the Wandoo occurs in definite groups on the plot. In these natural groups Wandoo of all age classes may occur. No leaf tray positions occurred immediately under the centre of one of these groups.

The mensuration data for the plot is shown below. (Table 1.). This data was prepared by A.D.F.O. McNamara.

TABLE 1.

GIRTH CLASS INS.	NO. OF TREES.		MEAN HEIGHT (FT.)	BASAL AREA.		MEAN G.B.H.
	PER PLOT	PER ACRE.		GROUP TOTAL/ ACRE	MEAN TREE	
0-15	19	13	25.25	0.772	0.061	10.0
15-30	31	21	45.40	6.331	0.307	23.2
30-45	19	13	67.80	10.225	0.808	37.9
45-60	9	6	65.80	8.48	1.414	49.4
60-75	4	3	80.80	6.35	2.380	65.4
75-90	1	1	83.00	2.68	4.020	85.2
90-105	4	3	74.75	14.59	5.472	99.4
105-120	3	2	81.33	14.15	7.073	112.9
120-135	1	1	92.00	6.42	9.630	132.0
	91	63		69.998		

A volume estimate by A/F. Price was as follows:-

Two loads per acre in the square, or considering the area from an Extracts view point, there was 18 tons of Wandoo per acre.

PLOT HISTORY.

Little is known of the past history of the area from the point of view of its fire history, but it is of interest to note that there was not enough litter on the forest floor to carry a fire in 1952, although the adjacent Jarrah slopes were severely burnt.

EXPERIMENTAL WORK.

Two sets of leaf trays (4 per set) were laid out on the area. They were placed at one chain intervals along two parallel strip lines one chain apart.

FUTURE WORK.

The trays are to be collected on the first of the month commencing on the 1st of December 1953. The litter will be dried and fractionated at Dwellingup.

CONSERVATOR OF FORESTS. PERTH.

For your information.

ARHatch

R.F.O. STEWART. MANJIMUP.

For your information.

A.D.F.O.

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A.D.F.O.

Noted DS 26/11/53

A.D.F.O.
R.F.O.