

CALM Sharefarms Midwest Plantation Management Plan 1999

Introduction

The property currently owned by _____ totals _____ hectares of which _____ is to be established as a *pine* plantation. The plantation is to be established by CALM Sharefarms as a *Sharefarm under a Profit a Prendre*.

Contract Option 70/30, 72/28 with fencing allowance.

Landcare Option CALM responsible for establishment
Or
Farmers responsibility with funding from CALM.

Situated in the _____ Shire, the property is located approximately _____ km
east/west/south/north of _____ on the _____ Road/HWY on
_____ location _____.

Farm manager:

Farm Owner:

Contact number:

This document outlines the following in relation to this plantation –

1. Land information
2. Establishment Plan
3. Tending Plan
4. Fire Management Plan
5. Timber Harvesting Plan

All relevant maps and plans are attached.



1.Land Information

Plantation Name

Landowner

Planting Year

Area ha

Location Numbers

_____ Loc _____

Grantee

Catchment

Natural Features

Annual Rainfall

mm

Major Soil Types

Landscape Position

Lower/Mid/Upper

Topography

Steep/Moderate/Flat

Aspect

North/South/East/West



Sensitivities

Values of significance on or adjacent to the property

The area's cultural, heritage and landscape values have been assessed through site inspection, consultation with the landowner and neighbouring landowners/managers and through reference to the Interrogator software ^{? Alicia} package. *No such values were found to exist/Details of the existing cultural/heritage/landscape values are outlined below along with an explanation of how these values will be maintained.*

Natural features

Streams/Rivers/Lakes/Ponds/Swamps/Drains

Areas of remnant vegetation with high natural integrity

Areas of remnant vegetation with low natural integrity

Adjoining Landuse

The following Landuse exists on the adjoining land –

Broadacre agriculture/State Forest/National Park/Nature Conservation/Horticulture/Viticulture or Agroforestry.

The establishment of this plantation will have little impact on the surrounding Landuse/ The impact of the establishment of this plantation on the surrounding Landuse will be minimal due to the following -

Service lines

The presence of underground cables/pipes associated with telecommunications, water, gas and electricity on the property has been investigated through consultation with the owner and the relevant service providers. The location of these cables/pipes has been both mapped and marked in the field.

Shire planning restrictions

No shire planning restrictions are applicable/The following restrictions apply



where from?

GPS operations/contract map

A GPS map of the property showing all planting areas, remnant vegetation, improvements, roads, waterways and proposed firebreaks is attached.

2. Establishment Plan

Clearing

No clearing is required/A total of ____ paddock trees/____ ha of bush is to be cleared. Approval by the relevant authorities has been sought/granted.

Operations are to be undertaken prior to planting

- *Burning of log heaps, stubble and paddock grass. CALM staff will conduct this activity in autumn during suitable weather conditions.*
- *Machine slashing of reeds/tall grass.*
- *Polishing*
- *Scalping*
- *Deep ripping and mounding to occur throughout entire planting area. Rip/mound lines to be surveyed on the contour or with gradient no greater than 1:100.*
- *Chemical control of weeds, annual / perennial / native*

Drainage/Erosion protection works

No such works are required/_____ drains/banks are to be installed for the purpose of _____. The location of these banks/drains is shown on the attached maps. Notifications/approvals have been made/sought.



Weed Control Strategy

The following difficult weeds are present or expected –

Bracken, Dock, Kikuyu, Couch, Radish, Sorrel, Melon, Paspalam

No declared weeds are present/ the following declared weeds are present -

The pre-planting control strategy involves –

- Spot-spraying of _____ using _____.
- Broadspray using _____ per ha of _____.
Using _____ per ha of _____.
- Strip spraying of mounds using _____ per ha of _____.
Using _____ per ha of _____.

Appropriate buffer zones will be observed in order to prevent contamination of waterways. All operations will be carried out in accordance with the weed control guidelines stated in the "Code of Practice for Timber Plantations in Western Australia".

Vermin Control

Rabbits will be controlled using the following methods –

- 1080 baiting applied by licensed operators and according to requirements under the relevant acts
- Shooting
- Ripping of warrens
- Poisoning of warrens

Seedlings

The CALM Manjimup nursery will supply seedlings. *The variety of seedlings to be planted will be particularly suited to rainfall conditions. Pinaster/Radiata*

Seedling type

Potted: seedling __ha cutting __ha

Bare rooted: seedling __ha cutting __ha

Planting

Seedlings will be planted by *machine/hand* at a density of _____ stems per ha.

Fertilising

Fertiliser application will be dependent upon fertiliser history.

Planting compartments and firebreaks

Maximum compartment size is _____ ha. The external firebreak width is _____m and all internal compartment breaks are _____m wide.

Planting access is via _____ roads or _____ tracks avoiding sensitive zones nominated by the landowner. Access ways are all weather/early winter only.

Landcare Details

Species planted:

Area of each species planted:

Natural values protected (ie streams/soil or remnant vegetation):

Area/s protected:

Length/s of fencing:

3. Tending Plan

Grazing

The planting area will be subject to grazing by *sheep/cattle* once the trees have reached sufficient size and following approval from the Grantee. Stock numbers and the grazier will strictly monitor management.



Pruning and thinning

Pruning may be carried out in later years in order to ensure fire control access standards are maintained. *Pruning may occur at year ____ for silvicultural purposes. Thinning is scheduled for years 12-15, 20- 22, 26-28 and clearfall at 32-40.*

Fertilising

Fertilising will be determined on the basis of soil and foliar analysis at intervals described in Plantation Field Manuals.

Weed management

Weeds will be monitored on a weekly basis following planting until January/February of the next year. In areas requiring weed control hand tool and/or chemical methods will be used. Chemicals used may be _____ at _____ per ha and _____ at _____ per ha with _____ at _____ per ha or as required.

2nd year weed control operations will be total/strip/nil spray and shall be dependant on the amount of weed cover throughout the plantation and tree size and vigour. CALM Sharefarm staff prior to any formal prescription being finalised will make an assessment of each property. Chemicals used may be _____ at _____ per ha and _____ at _____ per ha with additives of _____ to control problem weeds, or as required.

Pest and disease management

The plantation will be monitored for pests and disease on a weekly basis following planting until January/February of the next year. Pests will be controlled as and when required in accordance with the guidelines outlined under "Insect control" and "Control of vertebrate pests" in the "Code of Practice for Timber Plantations in Western Australia".

Road and firebreak maintenance

Landowner/CALM is responsible for maintaining the plantation's firebreaks. As a general rule, firebreaks will be sprayed in early spring to ensure the appropriate width of mineral soil is obtained prior to the commencement of the fire season. Where and when additional work is required, grading will be carried out.



4. Fire Management Plan

Contacts

Contact	Name	Telephone No.
Landowner		
Neighbour		
Neighbour		
Neighbour		
Neighbour		
Nearest CALM District		
Local Fire Brigade		
Chief Fire Control Officer		
Fire Control Officer		
Shire		

Risk of ignition

Potential ignition sources are mainly restricted to lightning strikes, powerlines, adjoining roads and escapes from burning operations on surrounding land.

Detection systems

The landowner/tenant/fire tower plus the existing brigade system will provide fire detection. In the event of a fire, the Shire Chief Fire Control Officer should be immediately notified. The CFCO should in turn contact the CALM Duty Officer.

District fire plans

The area is not part of any buffer or strategic area forming part of any district fire plan/ The area forms part of _____.



Location of fire control equipment

A minimum of equipment as per the following table is located ___km W/E/S/N/ from the property on _____ property, location number _____. The location of this equipment is also stated in the table.

Plantation Area (Ha)	LP Units Min. 900L	Med. Duty Units Min. 1900L	HD Units Min. 2700L
0 -100	2		
100-500	1	1	
500-1000		1	1
1000-2000		2	1
2000+			1 per 1500 Ha
Location			

Measures to protect powerlines and gas pipelines

No powerlines or pipelines are present in the planting area / a firebreak ___m wide is to exist adjacent to the powerlines/pipeline.

- Single Wooden Pole = 25.0 metres
- Double Wooden Pole = 25.0 metres
- Steel Tower = 35.0 metres

Water points and signs

A total of ___ water points located on the property will be maintained in order to provide permanent water for fire control purposes. Water point design will allow access for heavy-duty firefighting equipment. All internal water points (as shown on the plantation map) will be signposted with directional markers.

Fuel reduction

Fuels consisting of _____ surround the planting area. *There is no plan to carry out a fuel reduction program on or adjoining the property. / Fuel will be reduced _____ by _____.*



5. Timber Harvesting Plan

Harvesting of this rotation is expected to occur in 20___. A comprehensive Timber Harvesting Plan accompanied by maps will be formulated at a date closer to harvest time. This plan will outline the following –

- Location of harvesting operations
- Harvesting timetable
- Harvesting operations details
- Machinery and transport
- Fire and environmental safeguards
- Safety requirements

Prepared by	_____	__/__/__
Checked by Field Manager	_____	__/__/__
Endorsed by CALMfire Rep.	_____	__/__/__
Approved by CALM Sharefarms Manager	_____	__/__/__

