

SITE DESCRIPTION: JF6 - JARRAHDALE STATE FOREST

Boundary Definition: Reserve boundary as per CAD Reserves GIS Shapefile (DEC 2006)

SECTION 1: LOCATION INFORMATION

Perth Regional Plant Biodiversity Jarrah Forest Reference Site no. JF6 **Area (ha):** 9,998 ha

Map no. Jarrahdale State Forest maps 1, and 2

Other Names: State Forest F22

Local Authorities (Suburb): City of Armadale, Shire of Serpentine/Jarrahdale, Shire of Wandering

SECTION 2: REGIONAL INFORMATION

LANDFORMS (HAVEL AND MATTISKE 2000)

Dwellingup (D) = Darling Plateau – Lateritic uplands

Murray (My) = Darling Plateau – Moderately incised valleys

Darling Scarp (DS) = Darling Scarp – Rocky slopes

Cooke (Ce) = Darling Plateau – Moderate to steep slopes of monadnocks

Goonapping (G) = Darling Plateau – Mild sandy slopes on uplands

Pindalup (Pn) = Darling Plateau – Minor valleys, moderately incised

Yarragil (Yg) = Darling Plateau – Minor valleys, shallowly incised.

Swamp (S) = Darling Plateau – Floors of broad valleys and depressions.

VEGETATION AND FLORA (HAVEL AND MATTISKE 2000)

Vegetation Complexes (see map 1)

Cooke (Ce)

Dwellingup 1 (D1)

Dwellingup 2 (D2)

Dwellingup 3 (D3)

Dwellingup 4(D4)

Darling Scarp (DS)

Goonapping (G)

Murray 1 (My1)

Pindalup (Pn)

Swamp (S)

Yarragil 1 (Yg1)

Yarragil 2 (Yg2)

Ecological Vegetation Systems

Rs3, JP6, JP4, Ip3, RS4, Ac2, NM6, W12, Sw3, H16

WETLANDS

Wetland Types: Minor unnamed conservation category wetlands west of Albany Highway listed in Conservation Category Wetland GIS Database (DEC 2004), sections of the Canning, Serpentine and Little Darkan Rivers and minor tributaries (WA Major Rivers GIS Database DEC 2004).

THREATENED ECOLOGICAL COMMUNITIES

None listed in TEC and PEC GIS Shapefiles (DEC 2007)

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: (Havel and Mattiske 2000)

My1 area (containing reference point JSF1) is a major valley moderately incised into the humid zone of the northern Darling Plateau with red brown earth and red and yellow duplex soils. Yg1 (drainage lines above My1) consist of minor valleys shallowly incised into the humid zone of the northern Darling Plateau, with soils ranging from orange earths and humus podzols on valley floor to red and yellow gravely duplex soils on slopes. D2 (surrounding uplands) consist of upland ridges and spurs in the subhumid zone of the northern Darling Plateau with gravely duplex soils and lateritic outcrops.

Vegetation and Flora: Bullich woodland on My1 area Jarrah / Marri Woodland high on D2 grading down through open Wandoo woodlands and shrublands to Blackbutt/Flooded Gum woodlands closer riparian areas with Marri/ Blackbutt open woodland dominating higher drainage lines (Molloy 2007).

Structural Units (Havel and Mattiske 2000)

HL6= Vegetation ranges from Woodland of *Eucalyptus megacarpa*, *Eucalyptus patens* with *Banksia littoralis* and tall shrub and sedge storey of *Taxandria linearifolia*, *Lepidosperma tetraquetrum*, *Astartea fascicularis*, *Mesomelauna tetragona* and *Ghania trifida* on valley floor to Open Forest of *Eucalyptus marginata* subsp. *marginata* and *Corymbia calophylla* with a second storey of *Banksia grandis*, *Persoonia longifolia* and *Allocasuarina fraseriana* on slopes. Shrub and herb storey under the forest consists of *Grevillea wilsonii*, *Styphelia tenuiflora*, *Adenanthos barbiger*, *Hakea ruscifolia*, *Lechenaultia biloba*, *Baekkea camphorosmae* and *Hakea lissocarpha*.

JP4= Open Forest of *Eucalyptus marginata* subsp. *marginata* and *Corymbia calophylla* with second storey of *Allocasuarina fraseriana*, *Banksia grandis* and *Persoonia longifolia*. Shrub and herb storey consists of *Adenanthos barbiger*, *Leschenaultia biloba*, *Hakea ruscifolia*, *Hovea chorizemifolia*, *Styphelia tenuiflora* on the sandier soils and *Leucopogon propinquus*, *Leucopogon capitellatus* and *Hakea lissocarpha* on the loamier soils.

NM6 = Vegetation ranges from Woodland of *Eucalyptus patens* over *Banksia seminuda*, *Callistachys lanceolata* and *Agonis flexuosa* on valley floor to Open Forest of *Corymbia calophylla* and *Eucalyptus marginata* subsp. *marginata* with second storey of *Banksia grandis* and *Persoonia longifolia* on slopes. Shrub and herb storey of *Grevillea diversifolia*, *Trymalium floribundum*, *Hypocalymma cordifolium*, *Lepidosperma tetraquetrum* and *Chorizema ilicifolium* on valley floor to *Bossiaea aquifolium* subsp. *aquifolium*, *Leucopogon verticillatus*, *Leucopogon capitellatus*, *Macrozamia riedlei*, *Acacia urophylla* and *Pteridium esculentum* on slopes.

Vegetation Condition: JSF1 appears not to have been subjected to the forest production regime that has been applied the surrounding Jarrah/Marri woodland. General condition appears to be very good with minimal weed intrusion. The impacts of a comparatively hot burn during the summer of 2006/2007 are evident but recovery appears to be progressing well in all strata (Molloy 2007).

Total Flora: Unknown

Significant Flora: *Acacia oncinophylla* subsp. *oncinophylla* (P3) can be found in surrounding uplands (2005 DEC threatened and priority plant species GIS data base)

Fauna: No survey data is available for this site. Western Grey Kangaroos *Macropus fuliginosus* has been observed on site as have Echidnas *Tachyglossus aculeatus*. Fresh feral pig *Sus scrofa* and rabbit *Orytolagus cuniculus* impacts were plentiful on site.

Linkage: Forms a landscape scale linkage in both North/South and East/West directions, directly linking National Parks, conservation areas and other state forests.

Other Special Attributes: Jarrahdale State Forest is managed under the Western Australian Forest Management Plan (Conservation Commission 2003) in accordance with the Regional Forest Agreement. As JSF1 exists on a drainage line bordering a logging coup and is therefore considered to be in an informal reserve under the Forest Management Plan. Although this site is mapped as being on MY1 the landform and vegetation more closely resemble that of the nearby Yg1.

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

None listed.

References

Conservation Commission (2003) Forest Management Plan 2004-2013, Conservation Commission of Western Australia, Perth

Havel, J.J. and Mattiske, E.M. (2000) Vegetation mapping of South West Forest Regions of Western Australia, Department of Conservation and Land Management, Perth.

Molloy, S., (2007) Jarrah forest reference site field notes. Northern Transect. Unpublished.