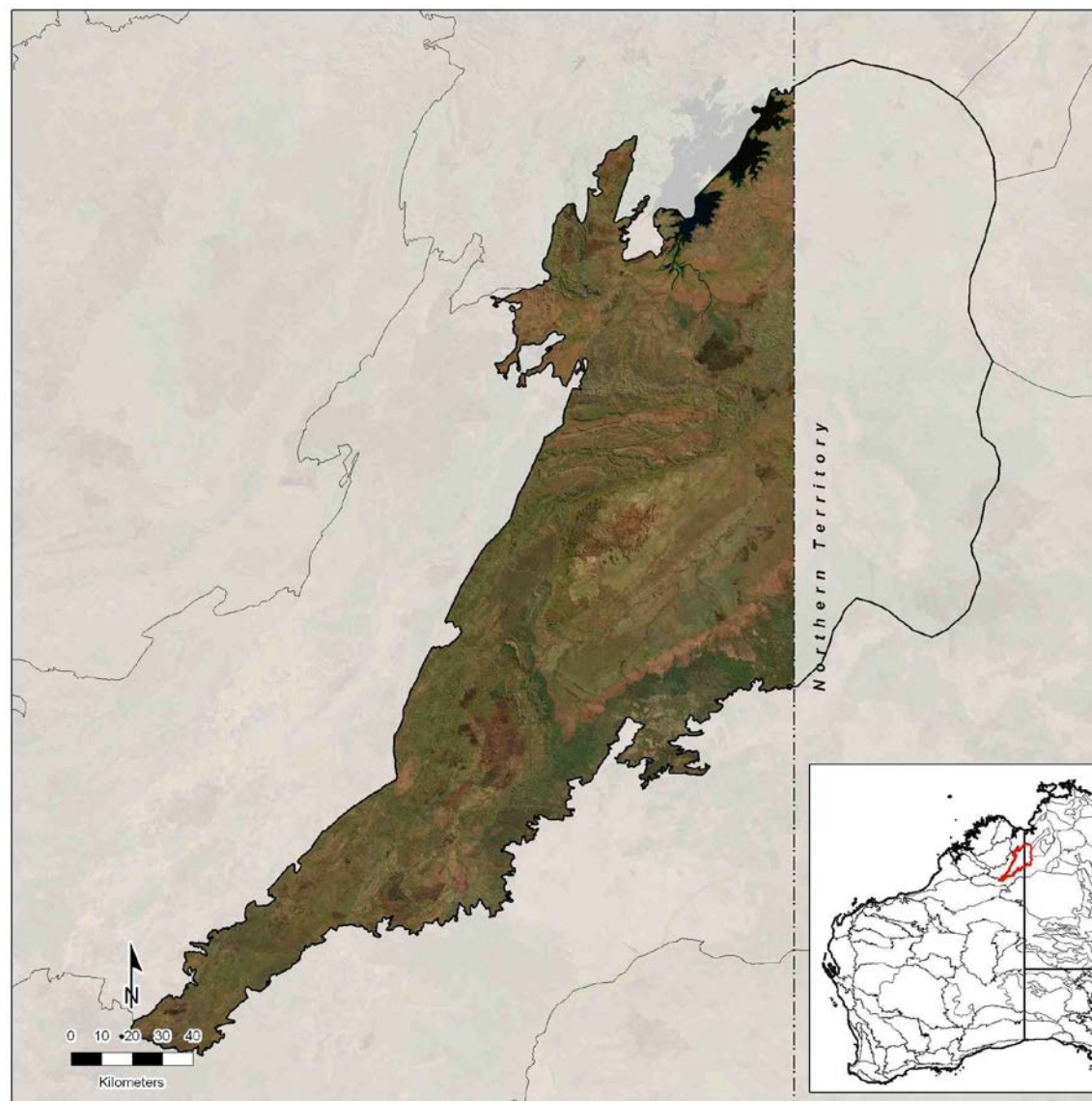


## Ord Victoria Plain 1 Sub-region



*Statistics and maps produced by GIS Branch, Department of Parks and Wildlife (2014)*

Information on the methods used to generate the statistics is available [here](#).

Note: the analysis was undertaken in 2012 under the auspices of the Department of Environment and Conservation. Therefore the acronym of “DEC” is used in this document.

## PROFILE OF SUB-REGION

### Total area of sub-region (ha)

Size of sub-region in WA (ha)	Percentage of WA covered by sub-region (%)	Percentage of sub-region within WA (%)	Percentage of sub-region covered by intact habitat* (%)	Percentage of sub-region within DEC-managed conservation reserves (IUCN Ia - IV) (%)
2,164,271	0.86	67	99.84	37.87

\*Intact habitat includes remnant vegetation and additional intact habitats (wetlands) not mapped in the remnant vegetation dataset.

Please see the GIS Branch intranet site for the latest annual statistics in the following report:

- [DPaW-Managed and Other IUCN Terrestrial Lands by IBRA Sub-Regions Report](#). Statistic: Percentage of sub-region within DEC-managed conservation reserves (IUCN Ia – IV).

## Remnant vegetation

		Extent of remnant vegetation		Extent of additional intact habitats (wetlands) not mapped in the remnant vegetation dataset		Total extent	
		(ha)	(%)	(ha)	(%)	(ha)	(%)
Native vegetation on DEC-managed lands	Conservation reserves (IUCN Ia - IV)	819,586	37.87	0	0.00	819,586	37.87
	DEC-managed lands proposed for conservation	45,120	2.08	0	0.00	45,120	2.08
	Conservation reserves (IUCN V & VI)	0	0.00	0	0.00	0	0.00
	Other DEC-managed lands	16,041	0.74	0	0.00	16,041	0.74
Native vegetation on other public lands		226,948	10.49	2	0.00	226,950	10.49
Native vegetation on leasehold lands		1,052,507	48.63	0	0.00	1,052,507	48.63
Native vegetation on freehold lands		579	0.03	0	0.00	579	0.03
Native vegetation with no tenure category assigned		63	0.00	0	0.00	63	0.00
Cleared areas		-	-	-	-	3,424	0.16
<b>Total</b>		<b>2,160,844</b>	<b>100</b>	<b>2</b>	<b>0</b>	<b>2,164,270</b>	<b>100</b>

NB: some rounding errors may occur.

Please see the GIS Branch intranet site for the latest annual statistics in the following report:

- [Statewide Vegetation Statistics \(Full report\)](#). Statistic: Extent of Remnant Vegetation including on DEC-managed lands.

## Tenure

			Extent (ha)			Extent (%)			Number of reserves		
			2002	2012	Change	2002	2012	Change	2002	2012	Change
DEC-managed lands	Conservation reserves (IUCN Ia - IV) <sup>1</sup>		323,877	819,597	495,720	14.96	37.87	22.91	2	3	1
	DEC-managed lands proposed for conservation		0	45,120	45,120	0.00	2.08	2.08	0	2	2
	Conservation reserves (IUCN V & VI)		0	0	0	0.00	0.00	0.00	0	0	0
	State forest / timber reserves		0	0	0	0.00	0.00	0.00	0	0	0
	Other DEC-managed lands		0	16,041	16,041	0.00	0.74	0.74	0	0	0
Other lands	Unallocated crown lands		80,464	27,171	-53,293	3.72	1.26	-2.46	-	-	-
	Other crown reserves		654,203	140,037	-514,166	30.23	6.47	-23.76	-	-	-
		Crown reserves vested in Aboriginal Lands Trust*	-	3,570	-	-	0.16	-	-	-	-
	Pastoral leases^		1,035,617	988,047	-47,570	47.85	45.65	-2.20	-	-	-
		Pastoral leases held by Aboriginal Lands Trust*	-	41,599	-	-	1.92	-	-	-	-
	Other leasehold lands^		0	67,065	67,065	0.00	3.10	3.10	-	-	-
		General purpose leases held by Aboriginal Lands Trust*	-	1,648	-	-	0.08	-	-	-	-
	Freehold lands		66,041	600	-65,441	3.05	0.03	-3.02	-	-	-
		Freehold lands held by Aboriginal Lands Trust*	-	0	-	-	0.00	-	-	-	-
	Commonwealth lands (defence)		0	0	0	0.00	0.00	0.00	-	-	-
	Other public lands (roads and water bodies)		2,365	60,529	58,164	0.11	2.80	2.69	-	-	-
	No tenure category assigned <sup>†</sup>		1,705	63	-1,642	0.08	0.00	-0.08	-	-	-
<b>Total</b>			<b>2,164,272</b>	<b>2,164,270</b>	<b>-</b>	<b>100</b>	<b>100</b>	<b>-</b>	<b>2</b>	<b>5</b>	<b>-</b>

NB: some rounding errors may occur.

\* Aboriginal Lands Trust data are only available for 2012. The extents shown are a subset of the category they sit below. These values should therefore not be summed since they are not mutually exclusive.

^ In 2002, there is not data to differentiate other leasehold lands. Therefore it is likely that the total extent shown for pastoral leases in 2002 includes both pastoral leases and other leasehold lands.

† The attributing of the state cadastral database has improved considerably over time. Therefore much of the land which had no tenure category assigned in 2002 will have been attributed and consequently distributed between other reporting categories in 2012. Much of this is expected to be distributed to the "Other public lands (roads and water bodies)" category, as road casings are progressively digitised and attributed, though increases in other categories is also possible as attributing improves.

<sup>1</sup> Part of the Ord River Regeneration Reserve is covered by two DAFWA grazing leases which are in place until 2026. The areas covered by the leases should not be classed as IUCN 4 like the remainder of the reserve, and therefore their extent is included in 'Other DEC-managed lands' rather than 'Conservation reserves (IUCN 1a-IV)'. Note however that for the number of reserves statistics, the reserve is counted as one reserve only, and has been included in the 'Conservation reserves (IUCN Ia-IV)' category.

Please see the GIS Branch intranet site for the latest annual statistics in the following report:

- [\*DPaW-Managed and Other IUCN Terrestrial Lands by IBRA Sub-Regions Report\*](#). Statistic: DEC-managed lands (extent only).

## Mining and petroleum

		IBRA sub-region					DEC-managed conservation reserves (IUCN Ia - IV)			DEC-managed lands proposed for conservation			DEC-managed conservation reserves (IUCN V & VI)			Other DEC-managed lands		
		2001/02	2001/02 % of IBRA sub-region	2012	2012 % of IBRA sub-region	Change^	2001/02	2012	Change	2001/02	2012	Change	2001/02	2012	Change	2001/02	2012	Change
Number of mining (live) tenements	Prospecting	34	N/A	46	N/A	12	4	0	-4	0	0	0	0	0	0	0	0	0
	Exploration	64	N/A	83	N/A	19	18	12	-6	6	8	2	0	0	0	0	0	0
	Mining	40	N/A	18	N/A	-22	0	1	1	0	0	0	0	0	0	0	0	0
	Other	0	N/A	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of petroleum (active) titles	Exploration	0	N/A	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0
	Production	0	N/A	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0
Land area (ha)	Mining (live) tenements	594,030	27.45	430,818	19.91	-7.54	210,861	32,819	178,042	29,988	13,785	-16,203	0	0	0	0	0	0
	Petroleum (active) titles	0	0.00	0	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	Mining (live) tenements and petroleum (active) titles*	594,030	27.45	430,818	19.91	-7.54	210,861	32,819	178,042	29,988	13,785	-16,203	0	0	0	0	0	0

\*An area of land can have over it both a mining tenement and petroleum title. The combined total represents the land area which is covered by a mining tenement or petroleum title or both.

^For the Land Area "Change" is calculated as the difference in % coverage at the IBRA sub-region scale of the two year dates.

## Current dominant land uses

	Extent (ha)			Extent (%)		
	1996/97	2005/06	Change	1996/97	2005/06	Change
Pastoralism	1,095,456	963,859	-131,597	50.62	44.54	-6.08
Miscellaneous (non-intensive use)*	709,735	820,539	110,804	32.79	37.91	5.12
Conservation	326,278	325,100	-1,178	15.08	15.02	-0.06
Water (man-made/man modified)	28,676	38,168	9,492	1.32	1.76	0.44
Traditional indigenous use	0	12,609	12,609	0.00	0.58	0.58
Water (not classified)	2,832	2,500	-332	0.13	0.12	-0.01
Mining	1,298	1,500	202	0.06	0.07	0.01
Native forestry	0	0	0	0.00	0.00	0.00
Plantation forestry	0	0	0	0.00	0.00	0.00
Agriculture (intensive use)	0	0	0	0.00	0.00	0.00
Urban	0	0	0	0.00	0.00	0.00
No data	0	0	0	0.00	0.00	0.00
<b>Total</b>	<b>2,164,275</b>	<b>2,164,275</b>	<b>-</b>	<b>100</b>	<b>100</b>	<b>-</b>

NB: some rounding errors may occur.

\* Largely unmodified natural systems under various land uses. See detailed descriptions.

See the methods document available [here](#) for definitions of the categories.

## Linear infrastructure

	Length (km)	Area of reporting region (ha)	Length per hectare (km/ha)
Roads (sub-region)	1,651	2,164,271	0.0008
Roads (Strategic Survey Roads in national parks, conservation parks and nature reserves)	171	243,831	0.0007
Railways (sub-region)	0	2,164,271	0.0000

## Complementary conservation initiatives to the formal conservation reserve system

	Extent (ha)			Extent (%)		
	2002	2012	Change	2002	2012	Change
Private conservation organisations' land	0	0	0	0.00	0.00	0.00
Nature Conservation covenants	0	0	0	0.00	0.00	0.00
Land for Wildlife properties	0	0	0	0.00	0.00	0.00
Combined total*	0	0	0	0.00	0.00	0.00

\* These conservation initiatives are not mutually exclusive. For example freehold land owned by a private conservation organisation may have a formal nature conservation covenant on its title. Therefore its area will be included in both category totals. The combined total represents the total extent of land which is covered by one or more initiative.

Please see the GIS Branch intranet site for the latest annual statistics in the following report:

- [\*DPaW-Managed and Other IUCN Terrestrial Lands by IBRA Sub-Regions Report\*](#). Statistic: Nature conservation covenants.

## Indigenous

		Extent (ha)			Extent (%)		
		2002	2012	Change	2002	2012	Change
Native Title determinations	On DEC-managed lands	0	0	0	0.00	0.00	0.00
	On all other lands	0	38,234	38,234	0.00	1.77	1.77
Commonwealth Indigenous Protected Areas		0	0	0	0.00	0.00	0.00

Please see the GIS Branch intranet site for the latest annual statistics in the following report:

- [\*DPaW-Managed and Other IUCN Terrestrial Lands by IBRA Sub-Regions Report\*](#). Statistic: Commonwealth Indigenous Protected Areas.



## Climate projection 2030, 2050 and 2070

### *Projected climate change scenarios (OzClim)*

ANNUAL	Projected (Average)			Change from Base Climate* (Average)			Change from Base Climate* (range)		
	2030	2050	2070	2030	2050	2070	2030	2050	2070
	High impact scenario								
Minimum Temperature (degrees C)	21.69	23.36	25.33	1.55	3.23	5.19	1.41 - 1.66	2.92 - 3.45	4.69 - 5.54
Maximum Temperature (degrees C)	35.95	37.87	40.13	1.78	3.71	5.97	1.60 - 1.88	3.33 - 3.92	5.35 - 6.30
Precipitation (mm)	593.89	532.79	473.17	-67.79	-128.88	-188.51	-86.50 - -58.40	-163.90 - -110.90	-238.50 - -162.39
	Medium impact scenario								
Minimum Temperature (degrees C)	21.37	22.24	23.07	1.24	2.10	2.94	1.12 - 1.32	1.90 - 2.24	2.66 - 3.14
Maximum Temperature (degrees C)	35.58	36.58	37.54	1.42	2.41	3.38	1.27 - 1.50	2.17 - 2.55	3.03 - 3.57
Precipitation (mm)	606.69	572.64	542.56	-54.98	-89.04	-119.11	-70.10 - -47.40	-113.50 - -76.60	-151.60 - -102.50

\* Base Climate is 1990

The Global Climate Change Model (GCM) used in both scenarios is CSIRO Mk3.5 (CSIRO: CSIRO Mk3.5 on OzClim).

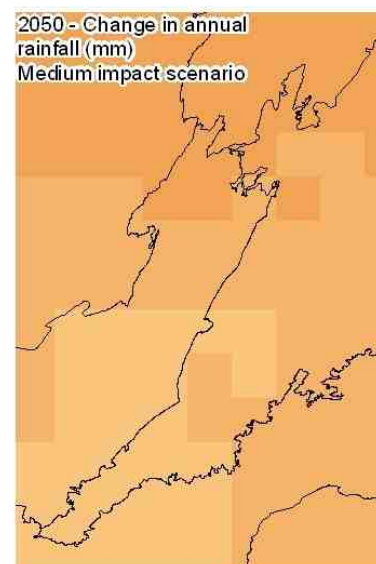
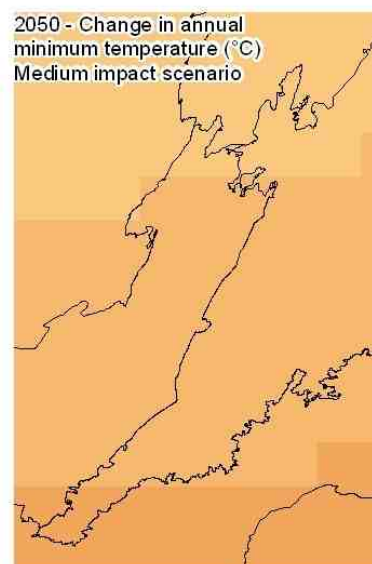
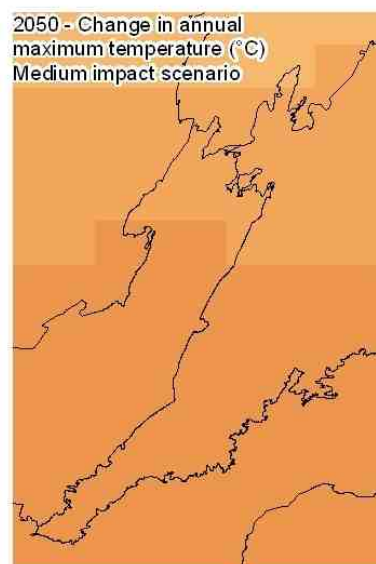
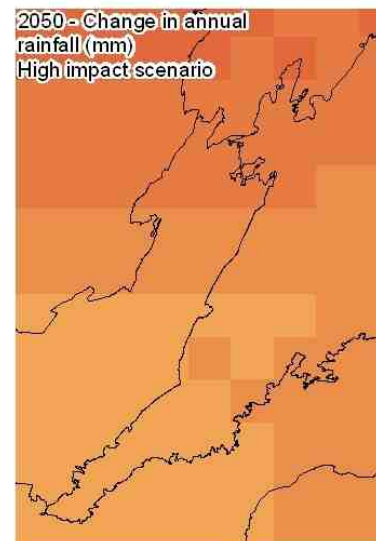
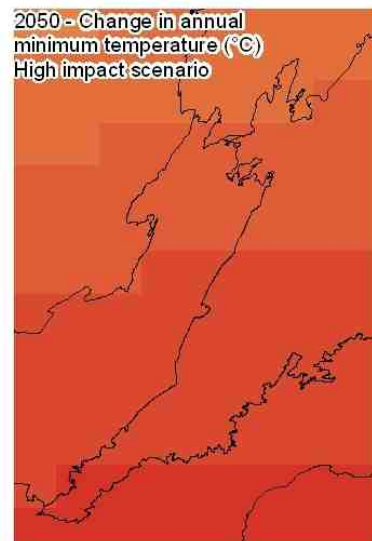
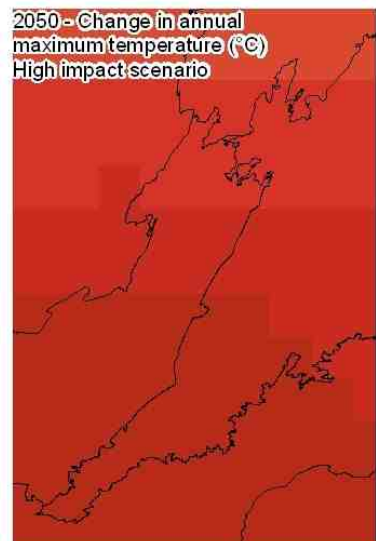
For more information see <https://wiki.csiro.au/confluence/display/ozclim/Science#Science-CSIRO35>

#### Medium Impact Scenario:

- *Emission Scenario:* Medium CO<sub>2</sub> emissions, peaking around 2030 (SRES Marker Scenario A1B)
- *Climate Sensitivity (Rate of Global Warming):* Moderate rate of global warming corresponds to a global warming of 2.6°C for a doubling of CO<sub>2</sub> from 280 ppm to 560 ppm.

#### High Impact Scenario:

- *Emission Scenario:* High CO<sub>2</sub> emissions, increasing throughout the 21st century (SRES Marker Scenario A1FI)
- *Climate Sensitivity (Rate of Global Warming):* High rate of global warming corresponds to a global warming of 4.2°C for a doubling of CO<sub>2</sub> from 280 ppm to 560 ppm.



The change (anomaly) is from the base climate of 1990.

# BIODIVERSITY ASSETS

## Native vegetation

Please see the GIS Branch intranet site for the latest annual statistics in the following report:

- [Statewide Vegetation Statistics \(Full report\)](#). Statistic: All statistics except 'Currently remaining on other lands'.

Vegetation Association descriptions can be viewed [here](#) (worksheet "Veg Assoc Descriptions").

### *Dominant vegetation associations*

Dominant vegetation associations are those which together occupied 85% of the sub-region at the time of European settlement (when sorted from largest to smallest).

Beard's veg assoc no.	Percentage of veg assoc within sub- region (%)	Pre- European extent (ha)	Current extent (ha)	Percentage remaining (%)	Currently remaining on DEC-managed lands (ha)				Currently remaining on other lands (ha)		
					IUCN Ia-IV	Proposed for conservation	IUCN V-VI	Non-IUCN	Public lands	Leasehold lands	Freehold lands
831	99.28	379,002	378,835	99.96	24,212	6,755	0	0	22,354	325,514	0
72	97.88	255,677	255,677	100.00	241,491	1,499	0	6,749	3,181	2,743	0
842	70.91	247,021	247,021	100.00	124,911	0	0	95	136	121,864	0
830	99.78	167,821	167,821	100.00	10,125	2,611	0	0	3,354	151,723	0
91	32.74	143,499	143,499	100.00	48,980	33,981	0	122	7,455	52,962	0
861	100.00	112,355	112,344	99.99	112,206	138	0	0	0	0	0
851	99.95	110,985	110,931	99.95	51	0	0	0	2,156	108,724	0
4000	67.95	102,486	101,607	99.14	0	0	0	0	98,904	2,699	0
846	99.86	91,112	91,112	100.00	90,931	136	0	0	40	0	0
816	67.23	89,397	89,277	99.87	69,440	0	0	6,960	4,446	8,431	0
827	99.88	81,302	81,302	100.00	49,254	0	0	0	13,686	18,358	0
847	93.48	66,474	66,474	100.00	42,412	0	0	228	2,934	20,899	0

### *Unique vegetation associations*

Unique vegetation associations are those which were largely restricted to only one sub-region at the time of European settlement (i.e.  $\geq 85\%$  of the vegetation association falls within one sub-region).

Beard's veg assoc no.	Percentage of veg assoc within sub- region (%)	Pre- European extent (ha)	Current extent (ha)	Percentage remaining (%)	Currently remaining on DEC-managed lands (ha)				Currently remaining on other lands (ha)		
					IUCN Ia-IV	Proposed for conservation	IUCN V-VI	Non-IUCN	Public lands	Leasehold lands	Freehold lands
861	100.00	112,355	112,344	99.99	112,206	138	0	0	0	0	0
815	100.00	37,361	37,361	100.00	371	0	0	0	1,827	35,163	0
844	100.00	2,639	2,639	100.00	0	0	0	0	0	2,639	0
872	100.00	2,631	2,631	100.00	0	0	0	0	0	2,631	0
851	99.95	110,985	110,931	99.95	51	0	0	0	2,156	108,724	0
827	99.88	81,302	81,302	100.00	49,254	0	0	0	13,686	18,358	0
846	99.86	91,112	91,112	100.00	90,931	136	0	0	40	0	0
843	99.83	21,256	21,256	100.00	0	0	0	0	15	21,241	0
830	99.78	167,821	167,821	100.00	10,125	2,611	0	0	3,354	151,723	0
818	99.74	33,174	32,883	99.12	0	0	0	0	1,465	31,419	0
833	99.54	38,498	37,739	98.03	0	0	0	0	87	37,356	296
831	99.28	379,002	378,835	99.96	24,212	6,755	0	0	22,354	325,514	0
72	97.88	255,677	255,677	100.00	241,491	1,499	0	6,749	3,181	2,743	0
847	93.48	66,474	66,474	100.00	42,412	0	0	228	2,934	20,899	0

### *Rare vegetation associations*

Rare vegetation associations are those which together occupied  $\leq 1\%$  of the state at the time of European settlement. The table below lists any rare vegetation associations which fall within this sub-region.

Beard's veg assoc no.	Percentage of veg assoc within sub- region (%)	Pre- European extent (ha)	Current extent (ha)	Percentage remaining (%)	Currently remaining on DEC-managed lands (ha)				Currently remaining on other lands (ha)		
					IUCN Ia-IV	Proposed for conservation	IUCN V-VI	Non-IUCN	Public lands	Leasehold lands	Freehold lands
126	4.63	1,089	1,089	100.00	0	0	0	0	1,089	0	0
872	100.00	2,631	2,631	100.00	0	0	0	0	0	2,631	0
844	100.00	2,639	2,639	100.00	0	0	0	0	0	2,639	0
4002	73.38	6,372	6,372	100.00	0	0	0	0	1,879	4,493	0
843	99.83	21,256	21,256	100.00	0	0	0	0	15	21,241	0