

WHITE WELLS STATION

PASTORAL LEASE 3114/529

Area: About 68,619 ha (legal) 68,377 ha (computed)

Area surveyed: Whole station

Land Conservation District: Yalgoo

Shire(s): Perenjori

Approximate area of various reserves, freehold and Vacant Crown Land within the pastoral lease = 287 ha.

Table 1. Summary of land types

| No. | Land type | No. of land systems | Area (ha) | (% of station) |
|-----|--|---------------------|-----------|----------------|
| 1 | Acacia hills | 1 | 482 | 0.7 |
| 3 | Hills with chenopods | 1 | 693 | 1.0 |
| 4 | Breakaways and stony plains | 3 | 9,430 | 13.8 |
| 6 | Granite plains and rises | 2 | 2,095 | 3.1 |
| 8 | Chenopod plains and low rises | 1 | 1,110 | 1.6 |
| 11 | Sandplains with dense mixed shrublands | 2 | 39,512 | 57.8 |
| 12 | Acacia sandplains | 1 | 475 | 0.7 |
| 13 | Mulga hardpan plains | 1 | 2,320 | 3.4 |
| 16 | Sandy acacia plains with wanderrie | 1 | 3,626 | 5.3 |
| 19 | Plains with eucalypt woodlands | 1 | 6,496 | 9.5 |
| 20 | Lake country | 1 | 1,982 | 2.9 |
| | Cleared land | - | 154 | 0.2 |

Table 2. Rangeland inventory and condition summary

| Pastoral potential | Land type | Land system | Area | | Traverse assessment of resource condition | | | | | | | | | Scc' (dse) | Pcc'' (dse) |
|--------------------|-----------|-------------|--------|-------|---|------------------|------|------|------|--------------------------|-----|-----|----|------------|-------------|
| | | | Total | Sde~ | No. of traverse points [#] | Soil erosion (%) | | | | Perennial vegetation (%) | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| ha | % | ha | Nil | Minor | Mod. | Severe | Good | Fair | Poor | | | | | | |
| High | 20 | Carnegie | 1,982 | 2.9 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 198 | 283 |
| Mod. high | 4 | Euchre | 7,522 | 11.0 | 0 | 13 | 100 | 0 | 0 | 0 | 69 | 23 | 8 | 590 | 627 |
| Mod. high | 3 | Graves | 693 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 58 |
| Mod. high | 8 | Moriarty | 1,110 | 1.6 | 0 | 2 | 100 | 0 | 0 | 0 | 100 | 0 | 0 | 93 | 93 |
| Moderate | 6 | Bandy | 1,426 | 2.1 | 0 | 1 | 100 | 0 | 0 | 0 | 100 | 0 | 0 | 89 | 89 |
| Moderate | 6 | Challenge | 669 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 42 |
| Moderate | 4 | Olympic | 1,158 | 1.7 | 0 | 3 | 100 | 0 | 0 | 0 | 100 | 0 | 0 | 72 | 72 |
| Moderate | 19 | Pindar | 6,496 | 9.5 | 0 | 6 | 100 | 0 | 0 | 0 | 100 | 0 | 0 | 406 | 406 |
| Moderate | 13 | Rainbow | 2,320 | 3.4 | 0 | 10 | 100 | 0 | 0 | 0 | 20 | 70 | 10 | 131 | 145 |
| Moderate | 4 | Waguin | 750 | 1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 47 |
| Low | 11 | Bannar | 5,415 | 7.9 | 0 | 14 | 100 | 0 | 0 | 0 | 86 | 14 | 0 | 263 | 271 |
| Low | 1 | Gabanintha | 482 | 0.7 | 0 | 1 | 100 | 0 | 0 | 0 | 100 | 0 | 0 | 24 | 24 |
| Low | 12 | Kalli | 475 | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 24 |
| Low | 16 | Yowie | 3,626 | 5.3 | 0 | 3 | 100 | 0 | 0 | 0 | 67 | 33 | 0 | 169 | 181 |
| Negligible | 11 | Joseph | 34,098 | 49.9 | 0 | 43 | 100 | 0 | 0 | 0 | 95 | 5 | 0 | 682 | 682 |
| Cultivated land | | | 154 | 0.2 | | | | | | | | | | 462 | 462 |

Table 3. Pastoral resource summary

| Pastoral potential | Area | | | Traverse assessment of resource condition | | | | | | | | | Scc (dse) | Pcc (dse) |
|---|--------|-------|-----|---|------------------|-------|------|--------|--------------------------|------|------|----------------|-----------|-----------|
| | Total | | Sde | No. of traverse points | Soil erosion (%) | | | | Perennial vegetation (%) | | | (from table 2) | | |
| | ha | % | | | Nil | Minor | Mod. | Severe | Good | Fair | Poor | | | |
| | | | | | | | | | | | | | | |
| High | 1,982 | 2.9 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 198 | 283 | |
| Moderately high | 9,325 | 13.6 | 0 | 15 | 100 | 0 | 0 | 0 | 73 | 20 | 7 | 733 | 777 | |
| Moderate | 12,820 | 18.8 | 0 | 20 | 100 | 0 | 0 | 0 | 60 | 35 | 5 | 780 | 801 | |
| Low | 9,998 | 14.6 | 0 | 18 | 100 | 0 | 0 | 0 | 83 | 17 | 0 | 479 | 500 | |
| Negligible | 34,098 | 49.9 | 0 | 43 | 100 | 0 | 0 | 0 | 95 | 5 | 0 | 682 | 682 | |
| Cultivated land | 154 | 0.2 | | | | | | | | | | 462 | 462 | |
| Total | 68,377 | 100.0 | 0 | 98 | 100 | 0 | 0 | 0 | 81 | 17 | 2 | 3,334 | 3,505 | |
| Survey average for land systems on this station | | | | | 98 | 1 | 0 | 0 | 58 | 30 | 12 | | | |

[^] Indicates minor value not reported in tables.

[~] Area mapped as being severely degraded and eroded.

[#] Where there are no traverse observations for a land system the carrying capacity calculations are based on averages for the system over the whole survey area.

^{*} Suggested carrying capacity (dry sheep equivalents) over summer, following an effective winter season.

^{**} Potential carrying capacity (dry sheep equivalents) over summer, assuming all land systems are in good condition.

Station summary

Severely degraded and eroded (ha) 0 (0.0% of station)

Number of traverse points 98

Pastoral resource condition:

Soil erosion

% nil 100

% minor 0

% moderate 0

% severe 0

Perennial vegetation

% good 81

% fair 17

% poor 2

[†] Suggested carrying capacity (dse) over summer, following an effective winter season 3,330

Potential carrying capacity (dse) over summer, assuming all land systems are in good condition 3,510

[†] The suggested carrying capacity (scc) over summer assumes that the entire station is adequately developed for the effective management of livestock, and that the most common seasonal conditions of a fair winter preceding a poor summer prevail. On an annual basis the scc may be considerably higher or lower than the quoted figure depending on the seasonal conditions. The scc therefore represents a reasonable approximation of the long term sustainable carrying capacity. It is a guideline figure, there is no requirement for it to be rigidly applied by managers nor is it appropriate for it to be used alone as a basis for commercial or regulatory purposes as there will be other factors which should also be taken into account.