# Land cover change in the Southern Gulf region 2012–14

#### Introduction

This fact sheet is 1 of 13 in a series detailing land cover change in Queensland's Natural Resource Management regions. These fact sheets are addenda to the report: Queensland Department of Science, Information Technology and Innovation. 2015. Land cover change in Queensland 2012–13 and 2013–14: a Statewide Landcover and Trees Study (SLATS) report. DSITI, Brisbane. Please refer to this report for further background, terminology, methods and explanatory notes.

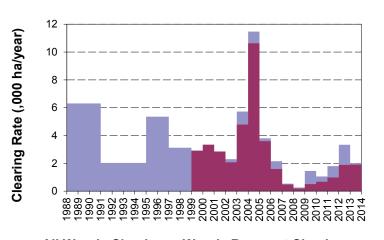
Figure 1 and Table 1 provide an historical overview of the remnant and non-remnant woody vegetation clearing trends within the region. The spatial distribution of the 2012-13, 2013-14 and historical woody vegetation clearing is shown in Figure 2. An overview of woody vegetation clearing rates categorised by tenure is provided in Table 2 and Figure 3. Woody vegetation clearing rates and remaining woody vegetation in each catchment within the region are provided in Tables 3 and 4, respectively, while replacement land cover information is provided in Table 5 and Figure 4.

#### Summary

In 2012–13, the woody vegetation clearing rate for the Southern Gulf region was 3 337 hectares per year (ha/year), an increase of 85% from the 2011–12 woody vegetation clearing rate of 1 801 ha/year (Table 2 and Figure 1).

In 2013–14, the woody vegetation clearing rate was 2 019 ha/year, a decrease of 39% from the 2012-13 woody vegetation clearing rate (3 337 ha/year) (Table 2 and Figure 1).

In 2012–13, the clearing rate of remnant woody vegetation in the region was 1 893 ha/year, an increase of 92% from the 985 ha/year reported in the 2011-12 period. In 2013-14, the remnant woody vegetation clearing rate was 1 907 ha/year, similar to the remnant woody vegetation clearing rate for the 2012-13 period (1 893 ha/year). The clearing of remnant woody vegetation accounted for 57% and 94% of the total woody vegetation clearing in the region for the 2012-13 and 2013-14 periods, respectively



All Woody Clearing Woody Remnant Clearing Figure 1. Woody vegetation clearing rates (,000 ha/year) in the Southern Gulf region.

> Queensland Government

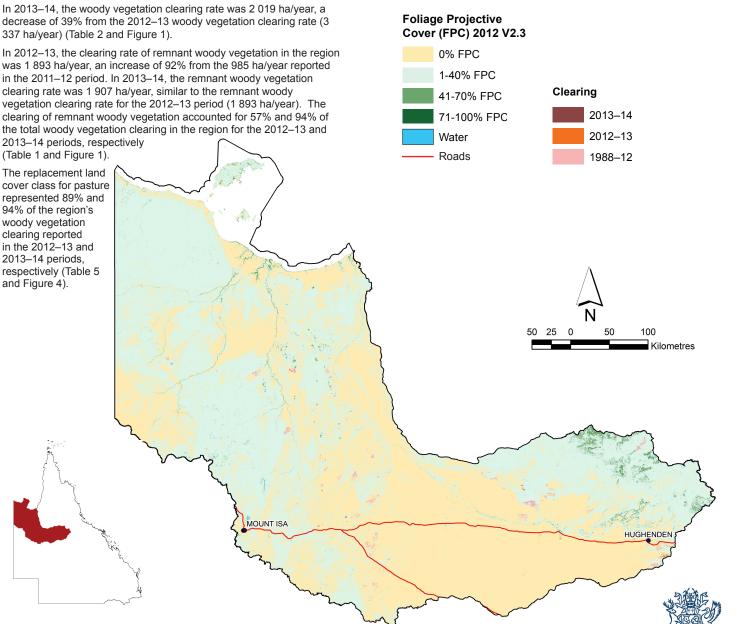


Figure 2. Spatial distribution of current (2012–13 and 2013–14) and historical (1988–12) woody vegetation clearing in the Southern Gulf region.

# Woody vegetation clearing by remnant status

#### Woody vegetation clearing by tenure

Table 1. Remnant and non-remnant woodyvegetation clearing rates (,000 ha/year) in theSouthern Gulf region.

Period	Non-remnant woody	Remnant woody	Total woody clearing
1999–00	0.027	2.901	2.929
2000–01	0.000	3.340	3.340
2001–02	0.017	2.843	2.861
2002–03	0.227	2.075	2.302
2003–04	0.935	4.790	5.725
2004–05	0.842	10.628	11.470
2005–06	0.203	3.597	3.800
2006–07	0.557	1.598	2.155
2007–08	0.062	0.480	0.542
2008–09	0.075	0.193	0.268
2009–10	0.946	0.510	1.456
2010–11	0.380	0.680	1.060
2011–12	0.816	0.985	1.801
2012–13	1.444	1.893	3.337
2013–14	0.112	1.907	2.019

Table 2. Woody vegetation clearing rates (,000 ha/year) in the Southern Gulf region by tenure.

Period	Freehold	Leasehold	Other tenures	Other reserves	Total
1988–91	1.954	4.325	0.014	0.006	6.299
1991–95	0.626	1.408	0.000	0.000	2.034
1995–97	3.257	2.025	0.000	0.000	5.282
1997–99	0.349	2.762	0.000	0.000	3.111
1999–00	1.616	1.313	0.000	0.000	2.929
2000–01	0.032	3.308	0.000	0.000	3.340
2001–02	1.193	1.667	0.000	0.000	2.861
2002–03	0.645	1.657	0.000	0.000	2.302
2003–04	0.669	5.006	0.000	0.000	5.675
2004–05	0.952	10.518	0.000	0.000	11.470
2005–06	2.380	1.420	0.000	0.001	3.800
2006–07	0.410	1.744	0.000	0.001	2.155
2007–08	0.095	0.447	0.000	0.000	0.542
2008–09	0.041	0.227	0.000	0.000	0.268
2009–10	0.081	1.375	0.000	0.000	1.456
2010–11	0.166	0.892	0.002	0.000	1.060
2011–12	0.603	1.198	0.000	0.000	1.801
2012–13	0.382	2.954	0.001	0.000	3.337
2013–14	0.189	1.830	0.000	0.000	2.019

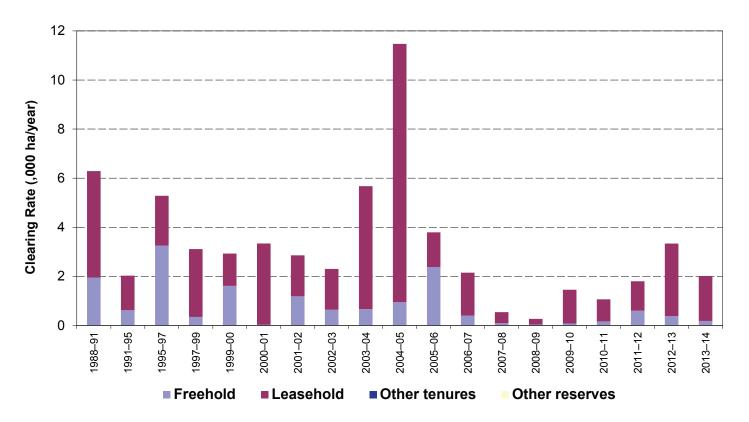


Figure 3. Woody vegetation clearing rates (,000 ha/year) in the Southern Gulf region by tenure.

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# Woody vegetation clearing by catchment

Table 3. Woody vegetation clearing rates (,000ha/year) in the Southern Gulf region by catchment.

Catchments	2009–10	2010–11	2011–12	2012-13	2013–14
Cliffdale Creek	0.000	0.000	0.001	0.002	0.005
Cloncurry River	0.872	0.135	0.783	0.416	0.538
Eight Mile Creek	0.000	0.000	0.002	0.000	0.001
Flinders River	0.318	0.543	0.467	2.412	0.750
L Creek	0.000	0.000	0.000	0.003	0.005
Lagoon Creek	0.000	0.000	0.002	0.006	0.000
Leichhardt River	0.071	0.176	0.226	0.335	0.144
Misc other Islands	0.000	0.000	0.000	0.000	0.000
Morning Inlet	0.000	0.004	0.004	0.017	0.013
Mornington Island	0.000	0.000	0.000	0.001	0.011
Nicholson River	0.029	0.025	0.070	0.047	0.028
Saxby River	0.166	0.166	0.245	0.098	0.524
Settlement River	0.000	0.011	0.002	0.000	0.000
Total	1.456	1.060	1.080	3.337	2.019

# Remaining woody vegetation

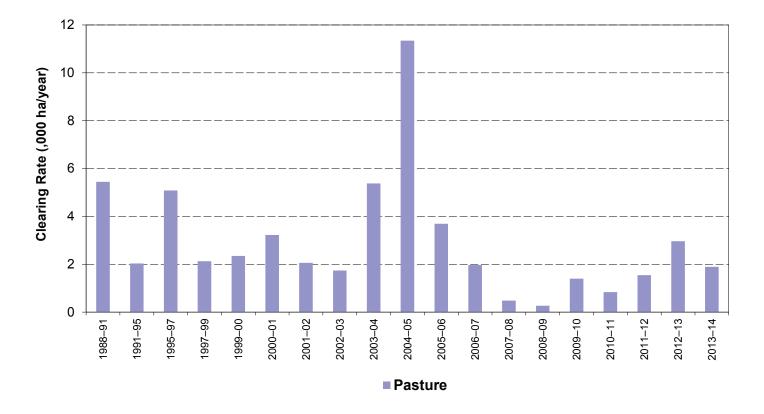
Table 4. Remaining woody vegetation in the Southern Gulfregion by catchment.

Catchments	Area (,000 ha)	2012 wooded vegetation cover (,000 ha)	% wooded vegetation cover
Cliffdale Creek	618	553	89
Cloncurry River	4734	1279	27
Eight Mile Creek	163	149	91
Flinders River	5188	2015	39
L Creek	194	84	43
Lagoon Creek	283	263	93
Leichhardt River	3287	2192	67
Misc other Islands	22	16	73
Morning Inlet	173	98	56
Mornington Island	98	86	88
Nicholson River	3564	2180	61
Saxby River	1015	535	53
Settlement River	111	98	88
Total	19450	9547	49

# Woody vegetation clearing by replacement land cover

Table 5. Woody vegetation clearing rates (,000 ha/year) in the Southern Gulf region by replacement land cover.

Period	Pasture	Crop	Forestry	Mining	Infrastructure	Settlement	Total
1988–91	5.445	0.000	0.000	0.001	0.862	0.000	6.308
1991–95	2.034	0.000	0.000	0.000	0.000	0.000	2.034
1995–97	5.082	0.000	0.000	0.041	0.232	0.000	5.356
1997–99	2.124	0.000	0.000	0.256	0.744	0.000	3.125
1999–00	2.346	0.001	0.000	0.208	0.373	0.000	2.929
2000–01	3.221	0.000	0.000	0.000	0.120	0.000	3.340
2001–02	2.063	0.000	0.000	0.000	0.797	0.000	2.861
2002–03	1.736	0.000	0.000	0.000	0.566	0.000	2.302
2003–04	5.378	0.000	0.000	0.050	0.292	0.005	5.725
2004–05	11.347	0.000	0.000	0.004	0.119	0.000	11.470
2005–06	3.690	0.000	0.000	0.053	0.057	0.000	3.800
2006–07	1.965	0.000	0.000	0.144	0.046	0.000	2.155
2007–08	0.484	0.000	0.000	0.043	0.009	0.006	0.542
2008–09	0.266	0.000	0.000	0.000	0.000	0.002	0.268
2009–10	1.397	0.000	0.000	0.029	0.030	0.000	1.456
2010–11	0.835	0.000	0.000	0.146	0.076	0.003	1.060
2011–12	1.547	0.000	0.000	0.181	0.073	0.001	1.801
2012–13	2.965	0.000	0.000	0.183	0.189	0.000	3.337
2013–14	1.894	0.000	0.000	0.078	0.047	0.000	2.019



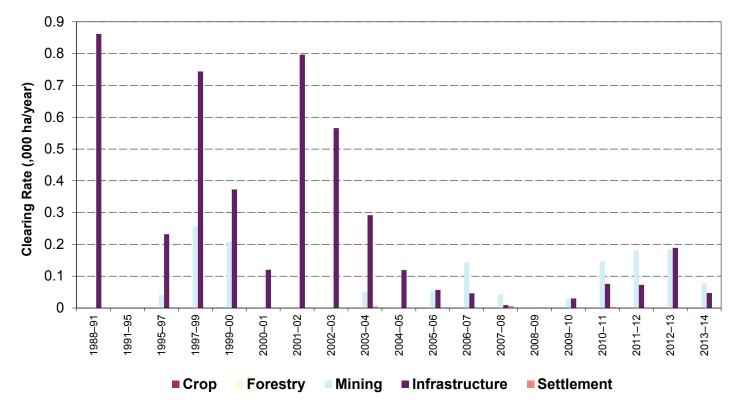
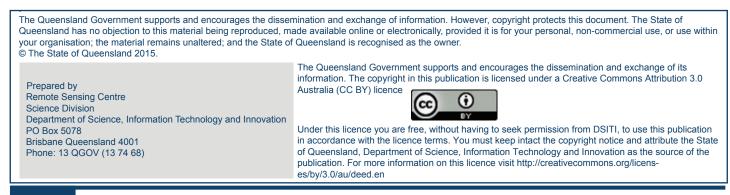


Figure 4. Woody vegetation clearing rates (,000 ha/year) in the Southern Gulf region by replacement land cover.



Land cover change in the Southern Gulf region 2012–14