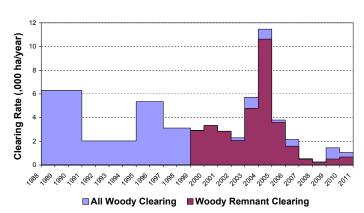
Land cover change in the Southern Gulf Catchments Natural Resource Management region

2010-11

Summary

The 2010–11 era presented a decrease in the woody vegetation clearing rate for the Southern Gulf region. The rate decreased by 27 per cent from 1456 hectares per year (ha/yr) in 2009–10 to 1060 ha/yr.

Whilst overall woody vegetation clearing decreased, clearing of remnant vegetation increased in 2010–11 to 686 ha/yr – up from 510 ha/yr in the 2009–10 era.



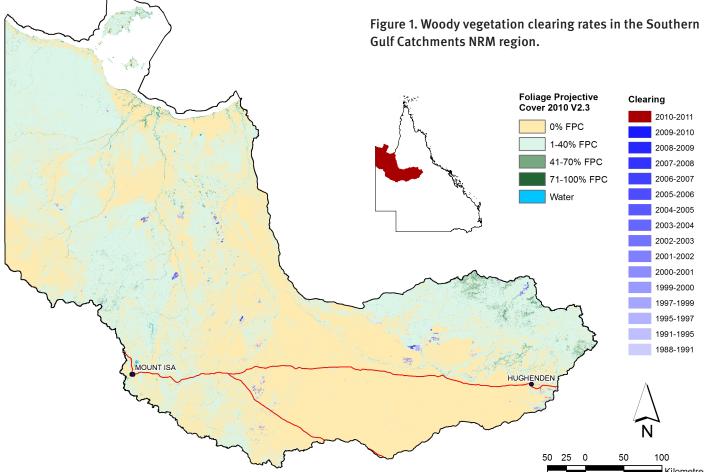


Figure 2. Woody vegetation clearing in each change period.



Woody vegetation clearing by remnant status

Table 1. Remnant and non-remnant woody vegetation clearing rates in the Southern Gulf Catchments NRM region.

	Woody vegetation clearing rate (,000 ha/yr) of			
Period	Non-remnant woody	Remnant woody*	Total woody	
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	0.374	0.686	1.060	

^{*} Regional ecosystem remnant mapping prior to 1999 not used in this analysis.

Woody vegetation clearing by tenure

Table 2. Woody vegetation clearing rates in the Southern Gulf Catchments NRM region by tenure.

	Woody vegetation clearing rate (,000 ha/yr) on					
Period	Freehold	Leasehold	Reserves	Other tenures	Total	
1988-91	1.954	4.325	0.006	0.014	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	0.001	0.000	3.800	
2006-07	0.410	1.744	0.001	0.000	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	0.000	0.002	1.060	

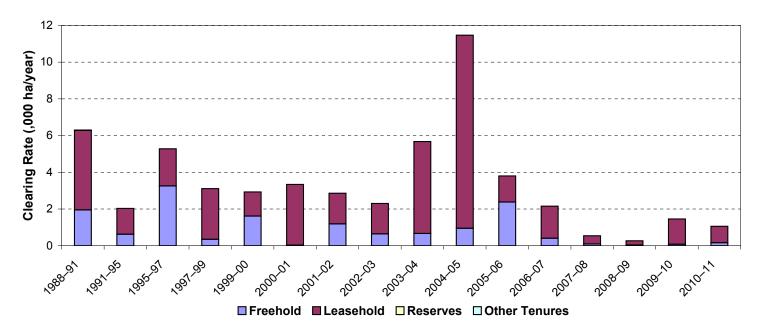


Figure 3. Woody vegetation clearing rates in the Southern Gulf Catchments NRM region by tenure.

Woody vegetation clearing by subcatchment

Table 3. Woody vegetation clearing rates in the Southern Gulf Catchments NRM region by subcatchment *.

Woody vegetation	Period					
clearing rate (,000 ha/yr) for	2006- 07	2007- 08	2008- 09	2009- 10	2010- 11	
Cliffdale Creek	0.567	0.003	0.000	0.000	0.000	
Cloncurry River	0.000	0.021	0.104	0.872	0.135	
Eight Mile Creek	0.000	0.000	0.000	0.000	0.000	
Flinders River	1.112	0.313	0.119	0.318	0.543	
L Creek	0.000	0.000	0.000	0.000	0.000	
Lagoon Creek	0.000	0.000	0.000	0.000	0.000	
Leichhardt River	0.349	0.121	0.018	0.071	0.176	
Misc other Islands	0.000	0.000	0.000	0.000	0.000	
Morning Inlet	0.004	0.000	0.001	0.000	0.004	
Mornington Island	0.000	0.000	0.002	0.000	0.000	
Nicholson River	0.018	0.052	0.001	0.029	0.025	
Saxby River	0.107	0.033	0.023	0.166	0.166	
Settlement River	0.000	0.000	0.000	0.000	0.011	
Total	2.155	0.542	0.268	1.456	1.060	

[#] Please refer to Figure 26 of the main report (DSITIA, 2014) for the location of each subcatchment.

Remaining woody vegetation

Table 4. Remaining woody vegetation in the Southern Gulf Catchments NRM region by subcatchment.

	Catchment area (,000 ha)	Area woody 2010 V2.3 (,000 ha)	% of catchment woody in 2010	
Cliffdale Creek	618	555	90	
Cloncurry River	4734	1265	27	
Eight Mile Creek	163	150	92	
Flinders River	5188	2031	39	
L Creek	195	84	43	
Lagoon Creek	283	264	93	
Leichhardt River	3288	2182	66	
Misc other Islands	24	18	75	
Morning Inlet	173	97	56	
Mornington Island	100	88	88	
Nicholson River	3564	2193	62	
Saxby River	1015	541	53	
Settlement River	111	98	88	
Total	19456	9565	49	

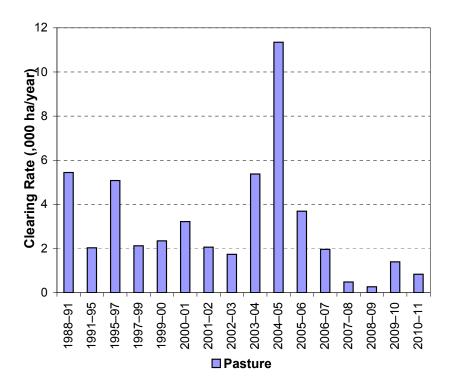
Note: Catchments with a low proportion of woody vegetation cover may contain significant areas of natural grasslands.

Woody vegetation clearing by replacement land cover

Table 5. Woody vegetation clearing rates in the Southern Gulf Catchments NRM region by replacement land cover.

	Wood vegetation clearing rate (,000 ha/yr) for						
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

^{*} Total excludes natural tree death.



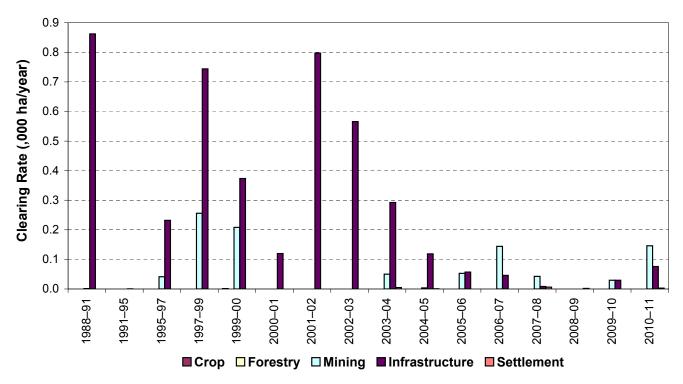


Figure 4. Woody vegetation clearing rates in the Southern Gulf Catchments NRM region by replacement land cover.

This fact sheet is 12 of 13 in a series detailing land cover change in Queensland's Natural Resource Management Regions. These fact sheets are addenda to the report: Department of Science, Information Technology, Innovation and the Arts (2014). Land cover change in Queensland 2010–11: a Statewide Landcover and Trees Study (SLATS) Report, 2014. Department of Science, Information Technology, Innovation and the Arts, Brisbane.

Please refer to this report for further background, methods and explanatory notes.

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