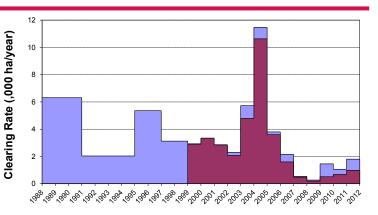
### Land cover change in the Southern Gulf region 2011–12

### Summary

The 2011–12 era presented an increase in the woody vegetation clearing rate for the Southern Gulf region. The rate increased by 70% from 1 060 hectares per year (ha/yr) in 2010–11 to 1 801 ha/yr.

Clearing of woody remnant vegetation increased from 686 ha/yr in 2010–11 to 816 ha/yr in the 2011–12 era. Remnant vegetation accounted for 55% of total clearing for the region.



■ All Woody Clearing ■ Woody Remnant Clearing

Figure 1. Woody vegetation clearing rates in the Southern Gulf region.

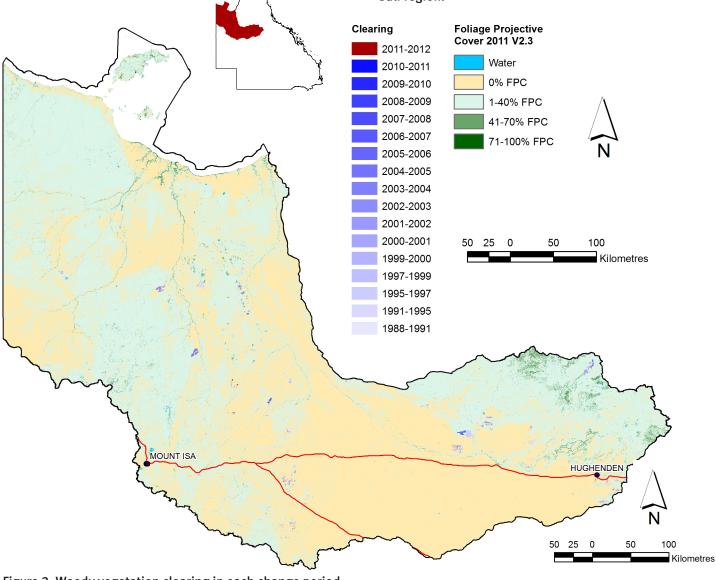


Figure 2. Woody vegetation clearing in each change period.



## Woody vegetation clearing by remnant status

Table 1. Remnant and non-remnant woody vegetationclearing rates in the Southern Gulf 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	
2011-12	0.816	0.985	1.801	

\* 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 region by tenure.

	Woody vegetation clearing rate (,000 ha/yr) on					
Period	Freehold	hold 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	
2011-12	0.603	1.198	0.000	0.000	1.801	

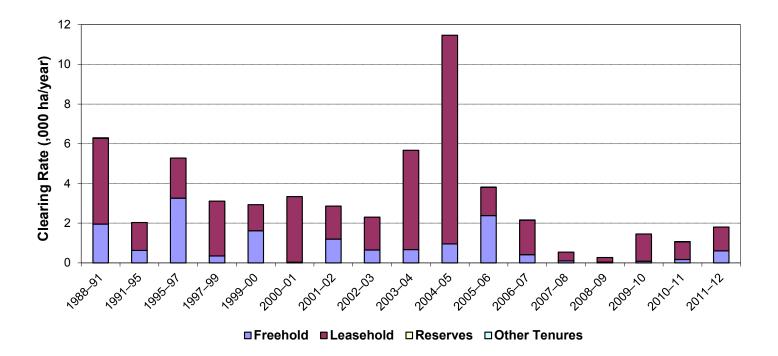


Figure 3. Woody vegetation clearing rates in the Southern Gulf region by tenure.

## Woody vegetation clearing by subcatchment

Table 3. Woody vegetation clearing rates in the Southern Gulf region by subcatchment <sup>#</sup>.

Woody vegetation	Period					
clearing rate (,000 ha/yr) for	2007- 08	2008- 09	2009- 10	2010- 11	2011- 12	
Cliffdale Creek	0.003	0.000	0.000	0.000	0.001	
Cloncurry River	0.021	0.104	0.872	0.135	0.783	
Eight Mile Creek	0.000	0.000	0.000	0.000	0.002	
Flinders River	0.313	0.119	0.318	0.543	0.467	
L Creek	0.000	0.000	0.000	0.000	0.000	
Lagoon Creek	0.000	0.000	0.000	0.000	0.002	
Leichhardt River	0.121	0.018	0.071	0.176	0.226	
Misc other Islands	0.000	0.000	0.000	0.000	0.000	
Morning Inlet	0.000	0.001	0.000	0.004	0.004	
Mornington Island	0.000	0.002	0.000	0.000	0.000	
Nicholson River	0.052	0.001	0.029	0.025	0.070	
Saxby River	0.033	0.023	0.166	0.166	0.245	
Settlement River	0.000	0.000	0.000	0.011	0.002	
Total	0.542	0.268	1.456	1.060	1.801	

# Please refer to Figure 25 and Table 19 of the main report (DSITIA, 2014) for the location of each subcatchment.

**Remaining woody vegetation** 

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

	Catchment area (,000 ha)	Area woody 2011 V2.3 (,000 ha)	% of catchment woody in 2011	
Cliffdale Creek	618	553	90	
Cloncurry River	4734	1275	27	
Eight Mile Creek	163	149	91	
Flinders River	5188	2030	39	
L Creek	194	85	44	
Lagoon Creek	283	264	93	
Leichhardt River	3287	2189	67	
Misc other Islands	22	17	76	
Morning Inlet	173	98	56	
Mornington Island	98	87	89	
Nicholson River	3564	2185	61	
Saxby River	1015	536	53	
Settlement River	111	97	88	
Total	19450	9565	49	

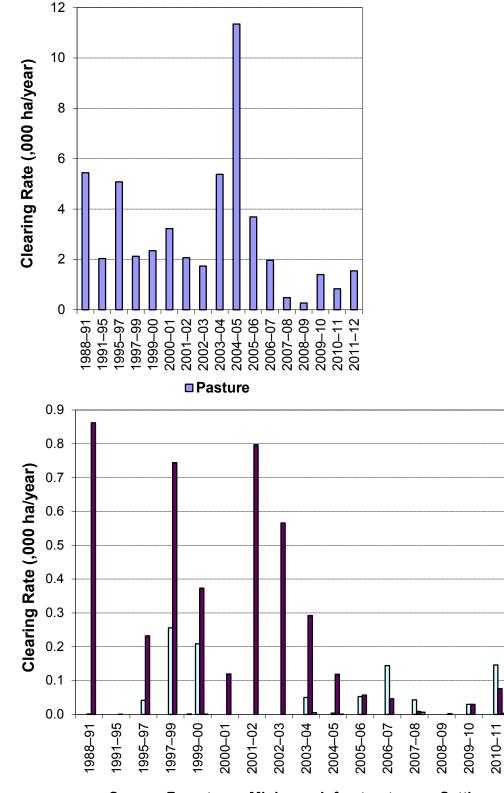
Note: Catchments with a low proportion of woody vegetation cover may contain significant areas of natural grasslands.

#### Woody vegetation clearing by replacement land cover

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

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

\* Total excludes natural tree death.



■Crop □Forestry □Mining ■Infrastructure ■Settlement

Figure 4. Woody vegetation clearing rates in the Southern Gulf 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 2011–12: 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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For further information: Statewide Landcover and Trees Study 41 Boggo Road Dutton Park QLD 4102 Phone: 61 7 3170 5686 Email: dave.harris@dsitia.qld.gov.au

2011-12