

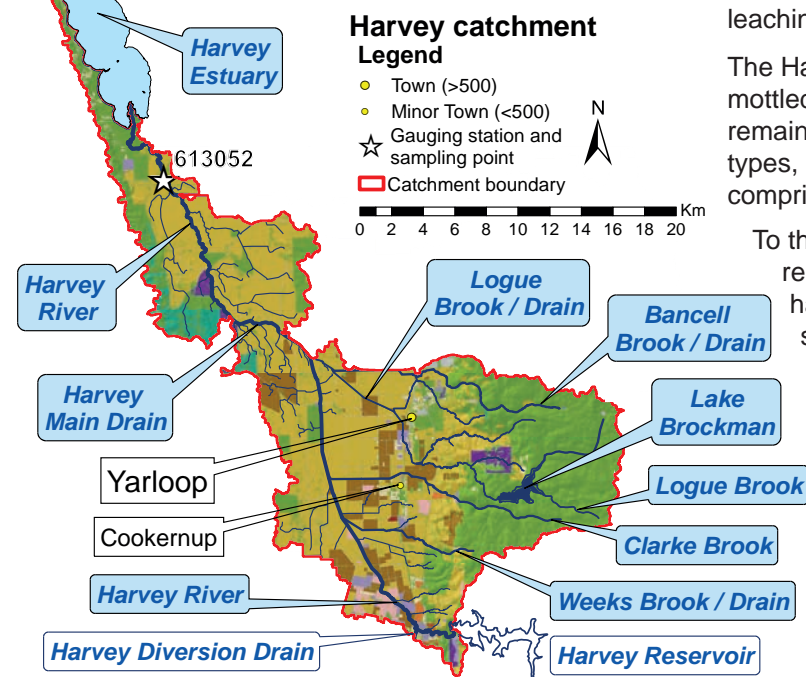


Harvey River

The Harvey River flows north-easterly from the Harvey Reservoir to its discharge point at the southern end of the Harvey Estuary. Many of the waterways within the catchment have been modified and these portions of the rivers and brooks have been re-named as drains. Just downstream of the Harvey Reservoir the Harvey Diversion Drain carries water directly to the ocean.

The headwaters of Logue Brook are located on the Darling Plateau in the Dwellingup State Forest. The Brook flows into Lake Brockman, the reservoir formed by Logue Brook Dam, before continuing through the coastal plain to its confluence with Harvey Main Drain. Bancell Brook flows into Logue Brook while both Clarke Brook and Weeks Brook discharge into Harvey Main Drain, upstream of Logue Brook.

The Harvey River monitoring site at Clifton Park (613052) is one of three long-term monitoring sites within the Peel-Harvey catchment. Nutrients have been monitored since 1982 and flow measured from 1983. The Harvey River flows year-round.



Land use classification (2006)	Area	
	(km ²)	(%)
Animal keeping – non-farming (horses)	1.1	0.26
Cattle for beef (predominantly)	169	41
Cattle for dairy	27	6.5
Conservation and natural	172	42
Cropping	<0.01	<0.01
Horticulture	5.3	1.3
Industry, manufacturing and transport	8.1	2.0
Intensive animal use	0.15	0.04
Lifestyle block	5.6	1.4
Mixed grazing	4.9	1.2
Offices, commercial and education	0.54	0.13
Plantation	9.5	2.3
Recreation	0.10	0.02
Residential	1.3	0.31
Viticulture	4.3	1.1
Total	408	100

Nearly 10% of the Harvey catchment is subject to seasonal inundation (9.4%) and more than a quarter of the catchment has a high or very high risk of phosphorus leaching to waterways (27%).

The Harvey River flows through sandy acidic yellow mottled soils, some containing ironstone gravel. The remainder of the catchment consists of a variety of soil types, including leached sands and poorly drained flats comprising of black and grey cracking clays.

To the east of the Darling Scarp the catchment remains relatively undisturbed. West of the scarp, the land has been cleared, mostly for agriculture such as stock grazing, as well as more intensive land uses such as piggeries and turf farms.



Harvey River – July 2004

Nutrient summary: median concentrations, loads and status classification at 613052

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Annual flow (GL)	208	57	106	105*	103*	143	38	84	107	95	20	73	59	136
TN median (mg/L)	1.0	0.90	1.0	1.0	1.0	0.88	1.0	1.3	1.3	0.85	0.80	1.1	1.0	1.4
TP median (mg/L)	0.14	0.16	0.15	0.15	0.12	0.14	0.13	0.15	0.20	0.11	0.07	0.10	0.13	0.18
TN load (t/year)	388	81	189	198*	191*	273	71	190	199	201	30	147	94	258
TP load (t/year)	58	11	27	29*	27*	42	9.4	24	27	26	3.8	19	13	36

Status classification: Low Moderate High Very high

Status reported for three-year period end (i.e. 2011–13 reported in 2013)

* best estimate using available data

TN = total nitrogen TP = total phosphorus