

State of the environment

2020 - 2021

Acknowledgement:

Dubbo Regional Council acknowledges the Wiradjuri People who are the Traditional Custodians of the Land. Council pay respect to the Elders both past, present and emerging of the Wiradjuri Nation and extend that respect to other Aboriginal peoples from other nations who are present.

A State of Environment (SOE) Report is an important management tool which aims to provide the community and local council with information on the condition of the environment in the local area to assist in decision making. As per section 428A* of the Local Government Act the SOE Report is required to be included in Council's Annual Report in a year in which an ordinary election is held. The below SOE Report provides a snapshot of data for the Dubbo Regional Council Local Government Area across a range of environmental indicators as shown in the tables below. The tables provide an understanding of trends by comparing this year's data (2020/2021) with an average of previous years.

*Section 428A as it pertains to State of the Environment reports was repealed on 20 August 2021. However, during this reporting period, which ended on 30 June 2020, it was still in effect.

2020/2021 HIGHLIGHTS

- The number of potentially contaminated sites in the Dubbo region increased. This is most likely associated with a comprehensive contaminated lands project conducted by Council between 2019 2021 to assist in identifying, recording and monitoring historically contaminated sites.
- The area (hectares) of habitat rehabilitated within the Dubbo region increased resulting in an improved environmental trend. There was however a decrease in the number of threatened species actions implemented and invasive species actively managed.
- Town water consumption decreased within the Dubbo region resulting in an improved environmental trend. This follows at least two years of increased town water consumption as a result of severe drought in 2018 and 2019. In fact 2019 was Australia's hottest and driest year on record, with much of the country affected by drought (Australian Government's Bureau of Meteorology's Annual Climate Statement 2019).
- Of note a very high level of 'E.coli remote from wastewater treatment plants' was measured in 2019/20 and 2020/21. This decrease in water quality could be associated with the drought breaking, and an increase in rainfall experienced across the Macquarie River catchment washing sediment and pollutants into the river system. Council continues to increase the number of gross pollutant traps installed across the catchment, and wastewater from the Dubbo Sewerage Treatment Plant is reused.
- The total waste entombed at Council's primary landfill (tonnes) continued to increase, less waste
 however was entombed at other landfill sites and transfer stations in the Dubbo region. This is due
 to Council closing a number of rural sites in 2019/20 to improve organisational waste management
 practices and to reduce uncontrolled illegal dumping at those locations. On a positive note there was
 an increase in the annual volume of material recycled, garden organics and e-waste collected and
 diverted from landfill.
- Annual electricity consumption and costs for Council controlled facilities decreased resulting in an improved environmental trend, although Council natural gas and fuel consumption increased. This could be associated with cooler weather experienced in the region in 2020/21. Council adopted an Energy Strategy and Implementation Plan in early 2020 which resulted in a number of comprehensive energy efficiency and renewable energy measures being implemented. This included the replacement of over 88% of Council's street light network with energy efficient LED technology, and the installation of solar systems on numerous Council buildings.
- The Dubbo Region continued to support renewable energy with an increase in the uptake of both small and large scale renewable energy.

LAND

Issue	Indicator	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	Trend
Contamination	Contaminated land sites - Contaminated Land Register (number)	1	1	1	1	1	No or little change
	Contaminated land sites - potentially contaminated sites (number)	461	503	516	526	530	Worsening Trend
	Contaminated sites rehabilitated (number)	3	0	2	1	0	Worsening Trend
Erosion	Erosion affected land rehabilitated (ha)	0	22	10	1	20	Improvement
Land use planning and management	Number of development consents and building approvals	975	879	837	789*	894*	Development increased in the Region
	Land use conflict complaints (number)	24	24	3	5	2	Improvement
	Loss of primary agricultural land through rezoning (ha)	0	0	0	0	0	No or little change

Note: the trend is based on comparing the average of the four previous years of reporting with 2020-21.

BIODIVERSITY

Issue	Indicator	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	Trend
Habitat Loss	Proportion of Council reserves that is bushland/remnant vegetation	23%	23%	23%	23%	23%	No or little change
	Habitat areas revegetated (ha)	14	28	15	3	20	Improvement
	Roadside vegetation management plan	No	No	No	No	No	No or little change

^{*}This total represents approval consents only with refused, withdrawn and rejected applications removed whereas they were included in previous years.

	Roadside vegetation rehabilitated (ha)	0	0	0	0	0	No or little change
Threatened Species	Threatened species actions implemented (e.g. PAS, recovery plans) (number)	6	7	6	2	1	Worsening Trend
Noxious weeds and feral animals	Priority weeds in region (number)	-	-	57	57	57	No or little change
	Invasive species under active management (number)	27	16	-	1	10	Worsening Trend

Note: the trend is based on comparing the average of the four previous years of reporting with 2020-21.

WATER & WATERWAYS

Issue	Indicator	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	Trend
Surface & Ground Water Quality	E.coli remote from wastewater treatment plants (per 100ml)	375	654	365	2901	1188	Worsening Trend
Riparian	Riparian vegetation recovery actions (number)	14	22	10	0	1	Worsening Trend
	Riparian vegetation recovery area (ha)	14	28	15	0	20	Improvement
Industrial/ Agricultural Pollution	Load Based Licencing Volume (kg)	9,191	11,978	16,865	10,606	24,580	Worsening Trend There was a substantial increase in Council's load base licencing volume in 2020/21 due to heavy rainfall events. This resulted in 2 licence exceedances.
	Exceedances of license discharge consent recorded (number)	0	0	0	0	2	Worsening Trend
	Erosion & Sediment Control complaints received by Council (number)	10	3	3	2	3	Improvement
Stormwater Pollution	Number of gross pollutant traps installed	60	62	62	63	63	Improvement
	Total catchment area of GPTs (ha)	1,254	1,430	1,430	1,838	1,838	Improvement
	Water pollution complaints (number)	15	11	11	6	4	Improvement
Town Water Quality	Number of instances drinking water guidelines not met	19	0	0	0	0	Improvement
	Number of drinking water complaints	724	6	29	60	20	Improvement
Council water consumption	Area of irrigated Council managed parks, sportsgrounds, public open space (ha)	179	208	210	218	218	Worsening Trend
	Water used by council for irrigation (including treated and untreated) (ML)	886	1,334	1,697	753	687	Improvement
Town water consumption	Annual metered supply (ML)	8,330	10,231	10,425	6,919	6,786	Improvement
	Annual consumption (Total from Water Filtraion Plant) (ML)	9,451	12,116	10,425	5,840	5,650	Improvement

Average annual household mains potable water usage (kL)	343	418	396	287	271	Improvement
Maximum level of water restrictions implemented	0	0	2	4	1	Improvement
Water conservation programs (number)	0	8	6	13	6	No or little change

Note: the trend is based on comparing the average of the four previous years of reporting with 2020-21.

TOWARDS SUSTAINABILITY

Issue	Indicator	2016-17	2017-18	2018-19	2019-20	2020-21	Trend
Waste Generation	Total waste entombed at primary landfill (tonnes)	48,959	51102	62,222	69,012	58,684	Worsening Trend
	Total waste entombed at other landfills (excl. recyclables) (tonnes)	121	3364	3142	3390	2460	Improvement
	Average total waste generated per person (tonnes)	0.95	1.04	1.23	1.35	1.13	No or little change
	Average cost of waste service per residential household	\$316	\$303	\$378	\$389	\$399	Worsening Trend
Hazardous/ Liquid Waste	Household Hazardous Wastes collected (kg)	9102	9400	12849	6072	9260	Improvement
Reduce	Garden organics collected (diverted from landfill) (tonnes)	3984	6846	5630	4924	7209	Improvement
	E-Waste collected (diverted from landfill) (tonnes)	13	13	2.3	5.4	16.08	Improvement

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Recycle	material recycled (tonnes)	8,088	10,417	12,914	13,062	11,745	Improvement
	Volume of material recycled per person (kg)	157	200	243	243	217	Improvement
Engineering, Infrastructure and Civil Works	New road construction (km)	1	2	5.6	1.7	2.5	No or little change
	Road upgrades (km)	87	32	31	48	83	Road upgrades increased in the Region
Risk Management	Council adaptation initiatives	0	0	1	3	1	No or little change
	Flood management plans/ flood mapping - increase in area covered (ha)	0	0	0	0	0	No or little change
	Hazard reduction burns (number)	2	0	0	0	0	No or little change
	Natural Disaster Declarations (flood bushfire drought)	-	3 (Drought March 2018)	1 (Storm/Flood December 2018)	0	0	Improvement
Council sustainability initiatives	Council sustainability education initiatives (number)	26	23	21	16	14	Worsening Trend
Climate Change Mitigation	Council mitigation initiatives (number)	6	8	10	12	17	Improvement
	Office paper used by Council (A4 & A3 reams)	3,464	2,853	2,701	2,011	2,175	Improvement
Council Greenhouse Gas Emissions	Annual electricity costs for Council controlled facilities	\$4,239,611	\$4,575,067	\$4,830,372	\$4,326,454	\$4,060,550	Improvement
	Annual electricity	21,650	23,044	23,056	20,498	18,705	Improvement

	consumption for Council controlled facilities (MWh) Annual natural gas consumption for Council controlled facilities (Gj)	10,260	5,225	3,172	861.4	5,284	Worsening Trend
Council Greenhouse Gas Emissions	Annual bottled gas consumption for Council controlled facilities (L)	28,164	25,770	28,316	25,315	13,383	Improvement
	Total fuel consumption (KL)	1,117	1,044	1,163	1,213	1,296	Worsening Trend
	Landfill emissions offset from methane flaring (t CO2e-)	27,456	28,725	23,578	24,371	30,153	Improvement
	Renewable energy uptake - total kW installed accumulative on Council buildings and facilities	82	82	102	112	256	Improvement
Council Greenhouse Gas Emissions	Small scale renewable energy uptake - Total kW of accredited small scale systems installed per year in postcodes 2830, 2820	2146	3682	5277	9352	8150	Improvement
	Total number of solar water heaters and heat pumps installed per year in postcodes 2830, 2820	40	44	36	33	22	Worsening Trend

Large scale	-	18.34	113.20	0	200.90	Improvement
renewable						
energy uptake						
- Total MW of						
accredited						
power stations						
installed per						
year in						
postcodes						
2830, 2830						

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PEOPLE AND COMMUNITIES

Issue	Indicator	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	Trend
Active community involvement	Environmental volunteers working on public open space (hrs)	5,233	4,800	-	2058	2500	Worsening Trend
	Number of growers markets/local food retailers specialising in local food	13	11	11	32	32	Improvement
Indigenous Heritage	Inclusion in DCPs & rural strategies (Yes or No)	Yes	Yes	Yes	Yes	Yes	No or little change
	Extent of liaison with Indigenous communities (self-assessed from 0 = none to 3 = High)	3	2	3	3	3	Stable
	Development approvals on listed Indigenous sites	8	0	0	0	0	Improvement
	Number of Indigenous heritage management actions/responses	1	3	2	2	2	Little or no change
Non- Indigenous Heritage	NSW Heritage Items	15	15	15	15	15	Little or no change
3	Locally listed Heritage Items	423	424	424	424	421	Little or no change
	Actions to protect non- Indigenous heritage (including management plans)	1	6	2	2	2	Little or no change

Heritage buildings on statutory heritage lists demolished/degraded in past year	0	0	0	0	0	Little or no change
Heritage buildings on statutory heritage lists renovated/improved in past year	26	30	25	30	25	Little or no change

Note: the trend is based on comparing the average of the four previous years of reporting with 2020-21.