

STATE OF THE ENVIRONMENT 2016 FINAL SUMMARY

BALLINA LGA

INTRODUCTION

This summary for the Ballina Local Government Area (LGA) forms part of the Regional State of the Environment report for 2016. It was compiled on behalf of the twelve Councils and three County Councils of the North Coast Region of NSW.

Reporting on major environmental indicators from 2011 to 2016, it identifies trends where relevant. Data was provided by councils, state and federal government, universities, energy suppliers and community groups.

> invasive species such as Tropical Soda Apple, coral tree, wild dogs and cane toads

Increasing threats from

Domestic waste generated is STEADY since 2011. In 2016, each person generated 350 kgs of waste, with 46% recycled

Waste water discharged to waterways% of waste water reused with 171 houses now on recycled water

29.7% of dwellings have roof top solar - the highest in the region

Domestic water use steady averaging 181 kilolitres per connection annually

Council's total CO₂-e emissions

increased by 28% from 2011 to

2016

Koala declared vulnerable - the local population is nationally significant; 1 new endangered species added since 2012



POPULATION



MEDIAN AGE was 45 years in 2011

CLIMATE CHARACTERISTICS



RAINFALL 2013 - HIGH

2014 - VERY LOW 2015 - AVERAGE 2016 - 5 June wettest day on record for NSW

FLOODING

2013 January - MAJOR 2013 February - MODERATE 2015 May - MINOR 2016 June - MINOR



2013 was the HOTTEST YEAR on record

COUNCIL EMISSIONS

COUNCIL EMISSIONS INCREASING SINCE 2011 by 32% for fuel and 9% for electricity, but streetlighting emissions reduced by 28% 465 TONNES CO₂-e ABATED ANNUALLY

GREENHOUSE GASES & RENEWABLE ENERGY

of dwellings have 29.7% or uwching roof top solar the highest in the region



Electricity use (source: Essential Energy)



- Business (MWh)
- Residential (MWh)
- Renewable energy exported to the grid (MWh)

RENEWABLE ENERGY

fed back to the grid has increased by 65% since 2012 with 282 kWh exported per person annually in 2016





- Total emissions electricity
- Total emissions streetlighting

PEOPLE & THE ENVIRONMENT CONT.



219 KILOLITRES

water use per connection annually - steady from 2011-2015

Residential water use

181 KILOLITRES

per connection annually, just above the NSW regional average of 172kL



WASTE

Overall DOMESTIC WASTE generated is steady with a 34% decrease in waste to landfill, 16% increase in waste recycled, and a drop in green waste sent for composting since 2011



WASTE TO LANDFILL DECREASED BY 34%

350 kgs KILOGRAMS

domestic waste generated by each person in 2016, with 46% recycled, below the NSW target of 66% diversion from landfill

Green waste COMPOSTED TO

A VERY HIGH QUALITY



BIODIVERSITY & VEGETATION

RESILIENT LANDSCAPES

Ballina Shire Council manages its remaining NATIVE VEGETATION through a variety of REHABILITATION PROJECTS

5 CONSERVATION AGREEMENTS PROTECT 44 HECTARES OF LAND

Land use National Parks 2.9% Urban/Rural 97.1%



HABITAT REGENERATION

VEGETATION LOSS



7 APPROVALS FOR PRIVATE NATIVE FORESTRY WERE GRANTED IN THE LGA FROM 2007 TO 2015 COVERING 88 HECTARES

Approvals are mainly in the Bagotville, Meerschaum Vale and Coolgardie areas

SINCE 2012

+14,000 trees

planted

Over 550 hectares (ha) of land rehabilitated 8 ha koala habitat re-established at Bagotville 36 ha wetland restored at East Ballina

OVER 7,000 HRS VOLUNTEER INPUT

from Landcare, community groups and non-government organisations

NATIVE FLORA & FAUNA



2 NEW KEY THREATENING PROCESSES SINCE 2012: Myrtle rust pathogen; Noisy miners excluding native species from habitat

1 NEW ENDANGERED SPECIES SINCE 2012: Black-tailed antechinus

1 NATIONALLY SIGNIFICANT POPULATION OF KOALAS

INVASIVE SPECIES



Key weed threats are TROPICAL SODA APPLE, CORAL TREE & HYMANACHNE with ongoing issues with camphor laurel, lantana & morning glory

FAR NORTH COAST WEEDS (FNCW) conduct weed control within the LGA

APPROX. 20 KILOMETRES of weed control completed annually on rivers, roadsides and railways by COUNCIL

Vertebrate pests - CANE TOADS, DEER, WILD DOGS, FERAL CATS, FOXES, PIGS AND INDIAN MYNAS are pests of concern in the LGA





SOIL TYPES found in the Ballina Shire reflect their origins as well as later geomorphological processes. Soils with volcanic origins occur on the Alstonville Plateau and the escarpment, and wetter soils on the floodplain and behind sand-dunes.



Sheet erosion and riverbank erosion are the biggest factors for soil health on the Plateau and on the floodplain. Erosion and drainage of floodplain soils cause significant river health issues (see 'Water – River Health' for more information).

Maintaining organic carbon is an issue for all modern soil management.



RIVER HEALTH

The Ecohealth water quality monitoring program was conducted during 2014 and reported in 2015. River health varies greatly from a B- in the upper catchments to an F (very poor) in the mid catchment. Water quality is poor to very poor in Ballina Shire catchments due to erosion, a lack of riparian vegetation, acid sulfate soils and poorly managed floodplain drainage for agriculture. See Council's website for the full Ecohealth Report Card for the Richmond River.



Ballina Shire Council



WASTE WATER

Waste water discharge to waterways has dropped by 40% since 2012



In 2016 11% OF WASTE WATER WAS REUSED

Biosolids are composted



GROUNDWATER STATUS

6 groundwater sources, all with commenced water sharing plans which manage both surface and ground water sources for allocations and environmental flows

Alstonville Basalt source remains OVERALLOCATED in some of its zones so no further allocations are available for sections of the groundwater source

567 identified GROUNDWATER-DEPENDENT ECOSYSTEMS (GDE) in the LGA - comprising 44% of all GDEs in the reporting region

OSSM COMPLIANCE

On-site sewage management systems compliance has been above 84% COMPLIANCE for inspected systems since 2012. In 2016, only 4% of systems inspected were failing

Council now has 2 inspectors inspecting and reviewing OSSM systems



RIVER & COASTAL MANAGEMENT

Ballina Shire has 3 Coastal Zone Management Plans (CZMP) - the Richmond River Estuary CZMP, Shaws Bay CZMP and the CZMP for the Ballina Coastline.

Each manage a different water body and it's associated features and are in various stages of implementation

