

# Wet Tropics Waterways

# REPORT CARD 2024



## Overview

This Report Card is an important tool to track changes to waterway health over time. In the 2022-23 reporting period, overall waterway condition grades were mostly unchanged. Exceptions are the Daintree River which declined from 'very good' to 'good', and the Moresby Estuary and Central and Palm Island inshore zones which improved from 'moderate' to 'good'. The underlying waterway health indicators show more changes than the overall grades.

To view all results in detail, visit our website:

wettropicswaterways.org.au



### **RAINFALL**

Rainfall in July was significantly above average in some areas - Kuranda had its highest monthly rainfall on record in July and rainfall for the Daintree, Mossman, Barron and Mulgrave was in the highest 1% of long-term rainfall records.

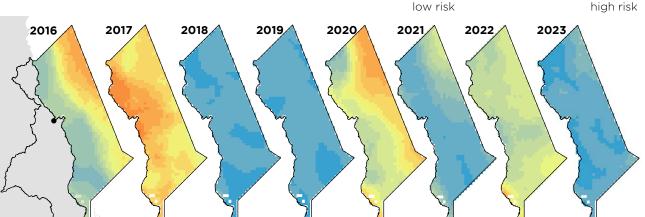
However, annual rainfall was average for most basins except the northern basins (Daintree, Mossman, Barron) which were above average. Annual discharges from the major rivers were above average, and more than double the average for the Daintree River.

Degree heating weeks

0 <1 <2 <3 <4 <5 <6 <7 <8 <9 <10 <11 <12 <13 <14

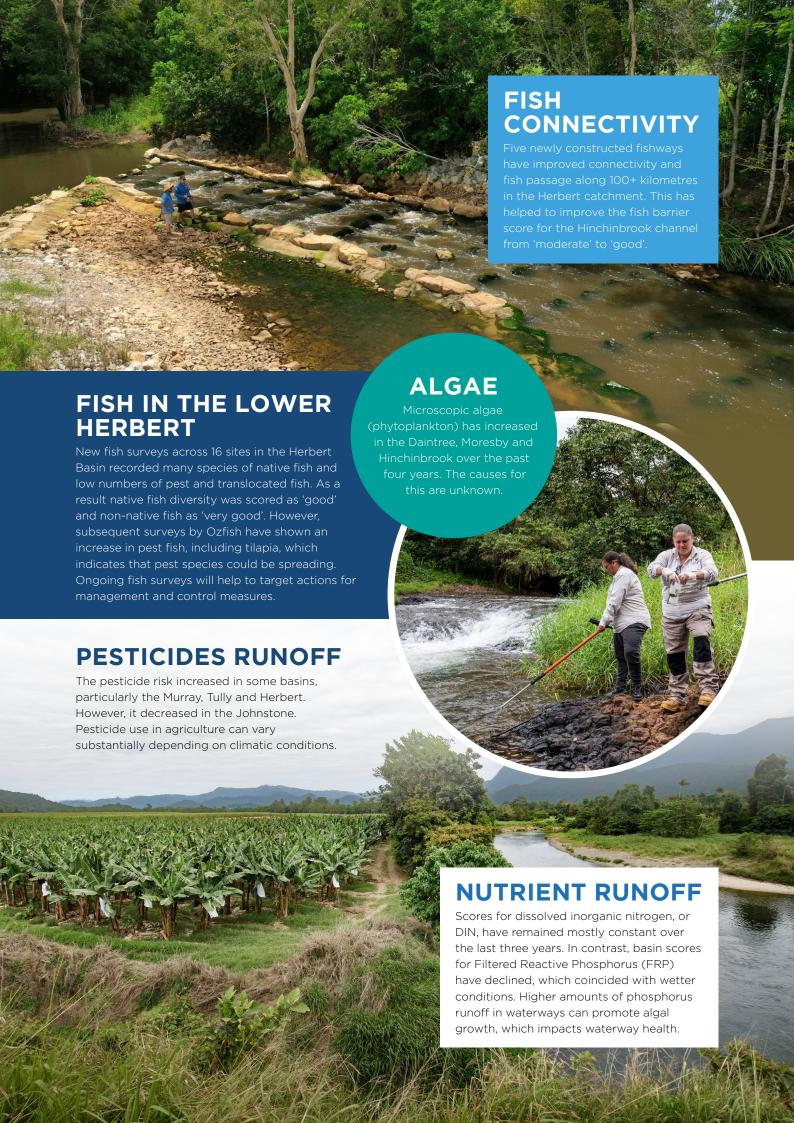
### SEA SURFACE TEMPERATURES

Sea surface temperatures in 2022-23 presented a low likelihood for coral bleaching during the summer months.



Annual degree heating week estimates for the Wet Tropics inshore and offshore marine environments. This indicates the likelihood of coral bleaching. Data are the annual maximum degree heating week estimates for each ~25 km² pixel. Data sourced from: https://coralreefwatch.noaa.gov/.

### **SEAGRASS** Seagrass restoration has been scaled up in the Moresby Estuary and seagrass condition improved, even though the overall grade remained 'very poor'. Volunteers have been helping James Cook University's TropWATER to plant 8000 seedlings in the estuary. Seagrass condition in highest score since 2015-16, improving from 'poor' fons of (150) to 'moderate' and in the North Inshore zone it also improved from 'moderate' to 'good'.



# Waterway grades 2022-23

This Report Card is part of a framework that is tracking progress towards the Reef 2050 Water Quality Improvement Plan targets. Go to www.wettropicswaterways.org.au/report-cards for more information.

**Great Barrier Reef Outlook Report** 

Reef wide. Released every **5 years**.

**Reef Water Quality Report Card** 

Reef wide (inshore). Released biennially

#### Regional Report Cards. Released annually.











Hinchinbrook

Habitat and hydrology - B Fish - Insufficient data

Overall - B

These grades are based on multiple indicators. For more information go to: www.wettropicswaterways.org.au/report-card



Overall - B



Overall - B



population

**Regional drivers** Key pressures on waterways in the Wet Tropics are driven by human activities

Overall - B

climate



Legend

Freshwater





Estuary









delay is due to the time required for quality control, scientific analysis and expert peer review.





Mossman Port Douglas

Ravenshoe

Russell

Overall - B

Atherton

Trinity Inlet

STUARY Barron

Overall - C

**North Inshore** 

Dickson Overall - B

Habitat and hydrology Fish - Insufficient data

Daintree Overall - B







Overall - B





Herbert

Overall - B

Overall - B Water quality - B Habitat and hydrology Habitat and hydrology Fish - Insufficient data ish - Insufficient data

**Johnstone** 







Overall - B Habitat and hydrology -Fish - Insufficient data

# Habitat and hydrology -Fish - Insufficient data

Water quality - C Habitat and hydrology -Fish - Insufficient data

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Wet Tropics Waterways is an initiative of the **Reef 2050 Long-Term Sustainability Plan**. We are one of five regional partnerships that produce a region-specific report card each year to track the health of the local rivers and estuaries that flow to the Great Barrier Reef. Find out more about joining the Wet Tropics Waterways partnership by emailing us at <a href="mailto:info@wettropicswaterways.org.au">info@wettropicswaterways.org.au</a> or go to our website.

Partnering for healthy tropical waterways and vibrant communities

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## Thanks to our partners











































#### **Acknowledgements**

Wet Tropics Waterways would like to acknowledge the following organisations for their contribution to the Wet Tropics Report Card: Regional Report Card Technical Working Group, Reef Independent Science Panel; Australian Institute of Marine Science; Queensland Government Department of Environment, Science and Innovation; James Cook University; CSIRO; Queensland Department of Regional Development, Manufacturing and Water. We would also like to thank the many other organisations that support and contribute to the release of the Report Card.

#### **Design and layout**

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#### **Photo credits**

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# To find out how you can join the Wet Tropics Waterways Partnership contact:

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