QRA QUEENSLAND RECONSTRUCTION AUTHORITY

Queensland Flood Risk Management Framework

Metrics Baseline Report: 2020–2021

Queensland Government

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Interpreter

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Cover image: Brisbane flood, February 2022.
Credit: RAW.Exposed.

Overview

Supporting measurable improvements in flood risk management

The Queensland Flood Risk Management Framework (QFRMF) sets the direction for flood risk management statewide, outlines roles and responsibilities, and guides and support decision-making by councils.

Five metrics have been developed to support measuring improvements in flood risk management and resilience for all Queensland communities. Each metric seeks to capture aspirations of Flood Risk Management (FRM) practices prescribed under the QFRMF. The metrics have been developed by the Queensland Reconstruction Authority (QRA) in consultation with stakeholders.

These metrics have been measured for all local government areas statewide to develop the 2020-2021 baseline metrics report. Annual progress reports against the baseline metrics will be presented to the Queensland Resilience Coordination Committee (QRCC). The first report will focus on projects and funding being delivered between 1 July 2021 to 30 June 2022.

Metrics Baseline Report 2020–2021

This Queensland Flood Risk Management Framework (QFRMF) Metrics Baseline Report provides data on activities undertaken between 1 July 2020 to 30 June 2021. Progress will be measured against this baseline annually to monitor change in Flood Risk Management (FRM) practices prescribed under the QFRMF.

Website

Information about the flood risk metrics is available on the Queensland Reconstruction Authority website at:

www.qra.qld.gov.au/flood-risk/metrics

The Queensland Flood Risk Management Framework is available at:

www.qra.qld.gov.au/QFRMF

Data sources

The data sourced for the baseline report involved both qualitative and quantitative analysis, and included desktop studies, analysis of existing datasets, and engagements with councils. The QRA notes there are some limitations in the amount of local data available in some local government areas, in particular for flood studies, councils local planning and land use, and the use of flood intelligence systems.

Contact

For queries about this report please contact the Queensland Reconstruction Authority Flood Risk Management team at:

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Metrics Baseline Report: 2020–2021

The Queensland Flood Risk Management Framework (QFRMF) Metrics Baseline Report provides data on activities undertaken between 1 July 2020 to 30 June 2021. Progress will be measured against this baseline annually to monitor change in Flood Risk Management (FRM) practices prescribed under the QFRMF.

Annual investment in Flodd Risk Management	Increase in the investment in preparing for and preventing the detrimental impacts of flooding on our communities	M1a	Annual investment (AUD$)	$37,420,804	Annual investment is the approved amount of State and Commonwealth funded flood risk management projects. The baseline is based on approved projects prior to 30 June 2021.
		M1b	Percentage of M1a allocated following a significant event	35%	
Risk-based land use planning	Land use planning decisions consider natural hazards and mitigate risks to ensure long-term sustainability of our communities	M2a	Number of councils with SPP2017 compliance Natural hazards, risk and resilience	67	Local council planning scheme assessed against the State Planning Policy 2017, State Interest – natural hazards, risk and resilience, in terms of considerations to flooding. Total area (ha) of residential-zoned land within the 1% flood extent, which is defined by the existing state-wide Queensland Floodplain Assessment Overlay (QFAO).
		M2b	Area of residential zoned land within the QFAO 1% AEP extent	107,210 ha	
Flood study coverage	Flood risk is understood for current and future conditions	M3a	LGAs with full coverage of level 3 flood studies	4	There are different levels of flood mapping and flood studies that map flood hazard areas based on local context and need. QRA currently has limited access to local flood study data, as such, reporting will be limited to the available data. Ideally future reports will expand to cover the full extent of flood studies undertaken in Queensland, as more data is shared with the state government (in accordance with the expectations articulated in the QFRMF).
			LGAs that have some level 3 flood studies with some gaps	7	
			LGAs consists of no level 3 flood studies	67	
		M3b	Value (AUD$) of investment in flood studies that year	$313,250	
Accessible flood information	Flood information is publicly available and accessible	M4a	Number of councils providing outputs of flood studies on their website	19	Flood awareness information is sourced through desktop research of council websites and follow up engagement.
		M4b	Number of councils with property level information portals	20	
		M4c	Number of councils with disaster dashboards	56	
Flood Warning Infrastructure	Queensland has a best practice network to prepare for and respond to flooding	M5a	Total number of river and rain assets for the primary purpose of flood warning	3223	Flood warning infrastructure assets information is sourced from Bureau of Meteorology's Service Level Specification (SLS) for Flood Forecasting and Warning Services for Queensland.
		M5b	Percentage of M5a which are automatic gauges	73%	
		M5c	Number of councils utilising aflood intelligence system	16	
		M5d	Number of gauges underwent a minor-moderate-major categorisation review	22	

Metrics definitions

Five quantifiable measures of Flood Risk Management (FRM) activities which can be used to monitor change have been identified and analysed for the baseline report. Each metric seeks to capture aspirations of FRM practices prescribed under the QFRMF. Due to project and funding arrangements, the baseline report will report between 1 July 2020 to 30 June 2021. The first annual report will focus on projects and funding being delivered between 2021–22.

Metric 1

This metric captures the funding approved for flood risk management activities across the state. This metric is informed by QRA administered grant and funding programs and will include only investment in FRM projects and activities that aim to prevent and/or prepare for flooding. It will also differentiate this investment from that targeted at response and recovery.

Metric 2

This metric monitors the number of councils with a local planning scheme in place, which is considered consistent with the risk-based planning principles outlined in the State Planning Policy 2017 (SPP 2017), State Interest - Natural Hazards Risk and Resilience. Metric 2 also captures the total area (ha) of residential-zoned land within the 1% flood extent, which is defined by the existing state-wide Queensland Floodplain Assessment Overlay (QFAO).

Metric 3

This metric seeks to capture the percentage area of habitable floodplains within a Local Government Area (LGA) covered by contemporary flood studies. Habitable floodplain is defined as populated places of an urban settlement (town or city) and the population indicated by ABS Census 2011 figures. A contemporary flood study utilises 2-dimensional hydrodynamic flood modelling software with a version of that software no older than five years, along with hydrological inputs that were generated using the latest ARR2019 guidelines.

Metric 4

This metric captures the number of councils that provide key flood awareness information on their public websites. Flood awareness information for this metric is sourced through desktop research of council's websites and subsequent council engagement. The metric focuses on the provision of the flood studies, property level information portals, and disaster dashboards.

Metric 5

Metric 5 captures improvements made to Queensland's flood warning infrastructure network. Flood warning infrastructure assets counted in the analysis conform to the Bureau of Meteorology's National Flood Warning Infrastructure Standard and this initiative aligns with the National Framework for Flood Warning Infrastructure. The data is sourced from the Bureau of Meteorology's Service Level Specification (SLS) for Flood Forecasting and Warning Services for Queensland.

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