

SunWater Flood Warning Communications About Dam Outflows

Please note that this information is complementary to the Tablelands Regional Council (TRC), Mareeba Shire Council (MSC) and the Local Disaster Management Group's (LDMG) multi-channel notifications and warnings.

Example Situation	SunWater actions	Where you can find information from SunWater	Typical messages from SunWater
PREPAREDNESS High rainfall event possible, no certainty but possibility of dam outflow.	<ul style="list-style-type: none"> Regular updated dam levels available on website Notify TRC and MSC of current dam level Provide general community update regarding dam levels 	<ul style="list-style-type: none"> SunWater Facebook Page Twitter @SunWaterLimited SunWater Website SunWater App 	<ul style="list-style-type: none"> To TRC and MSC: <ul style="list-style-type: none"> current dam level To general community: <ul style="list-style-type: none"> reference to BOM forecast current dam level
DAM OUTFLOWS UNDERWAY & POSSIBLE FLOODING Due to high rainfall underway across catchment.	<ul style="list-style-type: none"> Notify LDMGs & Police Notify registered EAP downstream residents (near dam) that outflows have commenced Issue general community update 	<ul style="list-style-type: none"> SMS (registered EAP downstream residents near dam) SunWater Facebook page Twitter @SunWaterLimited SunWater website SunWater App Radio Stations (SunWater will provide information to the following stations) <ul style="list-style-type: none"> ABC (720 AM) ABC (106.7 FM) BBM (98.7 FM) Hit (103.5 FM) KIK (88.7FM) Star (102.7FM) 4AM (558 AM) 4CA (846 AM) 	<ul style="list-style-type: none"> To TRC, MSC, LDMGs & Police: <ul style="list-style-type: none"> current dam level dam outflows have commenced To general community and registered EAP downstream residents (near dam): <ul style="list-style-type: none"> dam outflows have commenced review/enact your emergency plan/know when to evacuate
FLOODING OCCURRING OR LIKELY NEAR DAM In blue, yellow &/or red flood zone (Refer map on centre page)	<ul style="list-style-type: none"> Notify LDMG & Police Notify registered EAP downstream residents (near dam) flooding is expected in the blue, yellow &/or red zone or greater Issue general community update 	<ul style="list-style-type: none"> To TRC, MSC, LDMGs & Police: <ul style="list-style-type: none"> dam outflows are occurring (including rate) downstream flooding in the blue, yellow &/or red zone or greater is expected To general community and registered EAP downstream residents (near dam): <ul style="list-style-type: none"> dam outflows are occurring flooding in the blue, yellow &/or red zone or greater is expected recommended action required 	
OTHER DAM INCIDENTS E.g. major earthquake.	<ul style="list-style-type: none"> Liaise with State Disaster Coordination Centre to issue community-wide advice via state's emergency alert system 	<ul style="list-style-type: none"> Description of situation at dam Enact your emergency plan/move to higher ground 	
DAM OUTFLOWS CEASED Flooding may still be underway downstream & across the catchment.	<ul style="list-style-type: none"> Notify registered EAP downstream residents (near dam) of ceased dam outflows Issue general community update as required 	<ul style="list-style-type: none"> To TRC, MSC, LDMG & Police: <ul style="list-style-type: none"> current dam level monitor dam levels on SunWater website To general community and registered EAP downstream residents (near dam): <ul style="list-style-type: none"> dam outflows have ceased further updates will be provided if outflows are likely to recommence 	

Other sources of information	
Tablelands Regional Council	www.dashboard.trc.qld.gov.au and www.facebook.com/TablelandsRegionalCouncil
Mareeba Shire Council	www.msc.qld.gov.au/emergencies-disasters and www.facebook.com/MareebaShire
Bureau of Meteorology	www.bom.gov.au
ABC	www.abc.net.au/local
State Emergency Service (SES)	www.ses.qld.gov.au
Get Ready Queensland	www.getready.qld.gov.au
Queensland Fire & Emergency Services	www.qfes.qld.gov.au
Ergon Energy	www.ergonenergy.com.au
Queensland Government Disasters & Alerts	www.qldalert.com



Contact Details

To enquire about Tinaroo Falls Dam, please phone 13 15 89 or email us via the website: www.sunwater.com.au/home/contactus
 To view Tinaroo Falls Dam storage levels via the website: www.sunwater.com.au/home/water-storage-levels/tinaroo-falls-dam

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Tinaroo Falls Dam

Fact Sheet

Tinaroo Falls Dam Facts

- Tinaroo Falls Dam is the major water storage for the Mareeba-Dimbulah Water Supply Scheme, located 14km north east of Atherton.
- Tinaroo Falls Dam was constructed in 1958 primarily to provide water supply for the tobacco industry. Today water is supplied for a large range of irrigation crops such as fruit and vegetable, nuts, sugar cane, tobacco, coffee, flowers and pastures for beef cattle breeding. The townships of Tinaroo, Walkamin, Mareeba, Kuranda, Mutchilba, Dimbulah and Yungaburra are also supplied from the scheme.
- The dam was upgraded in 2010.
- Tinaroo Falls Dam was not designed as a flood mitigation dam and does not include a flood mitigation compartment.
- The area downstream of Tinaroo Falls Dam receives flows from other major creek systems including Tinaroo Creek and Clohesy River.
- The Tinaroo Falls Dam Catchment is bounded by the Mulgrave to the east, Johnstone and Herbert catchments to the south and Mitchell to the west.

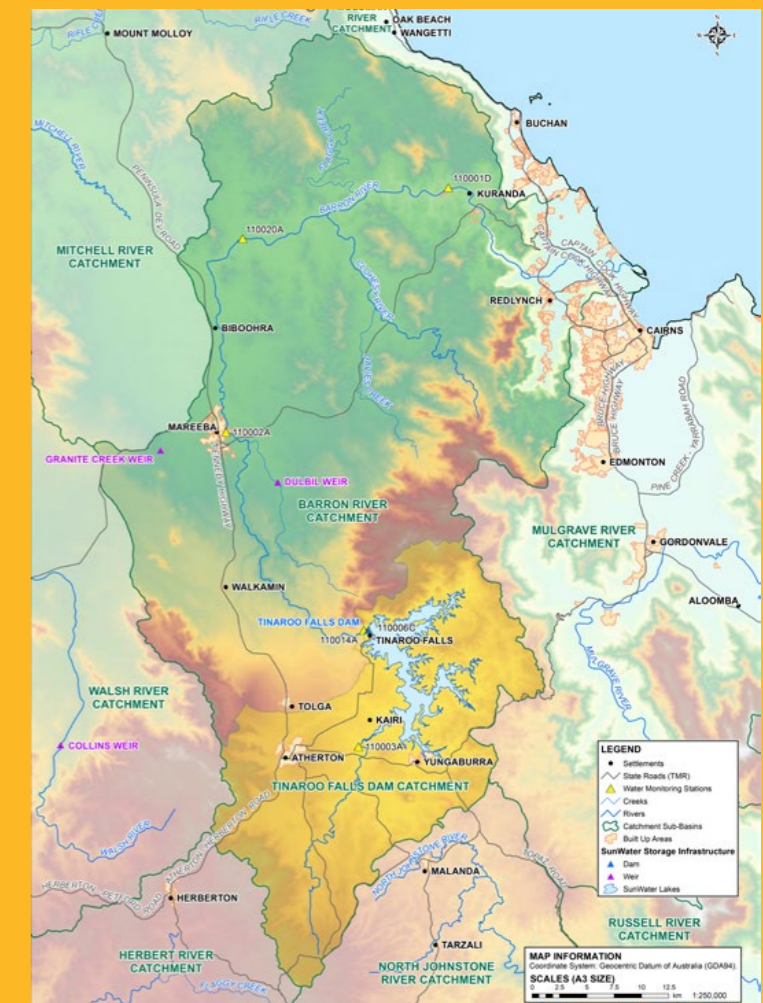
What types of flows can be expected from Tinaroo Falls Dam?

- SunWater regularly makes water releases through the dam's outlet valve based on:
 - Downstream demand for end users
 - Necessity to recharge underground water supplies.
- When the dam is full, water flows over the spillway. This stops the water level getting too high and helps to protect the integrity of the dam structure.
- The Bureau of Meteorology provides severe weather information for the community. Flood warnings are not currently issued by the Bureau of Meteorology for any locations upstream of Barron Falls.

DAM DETAILS

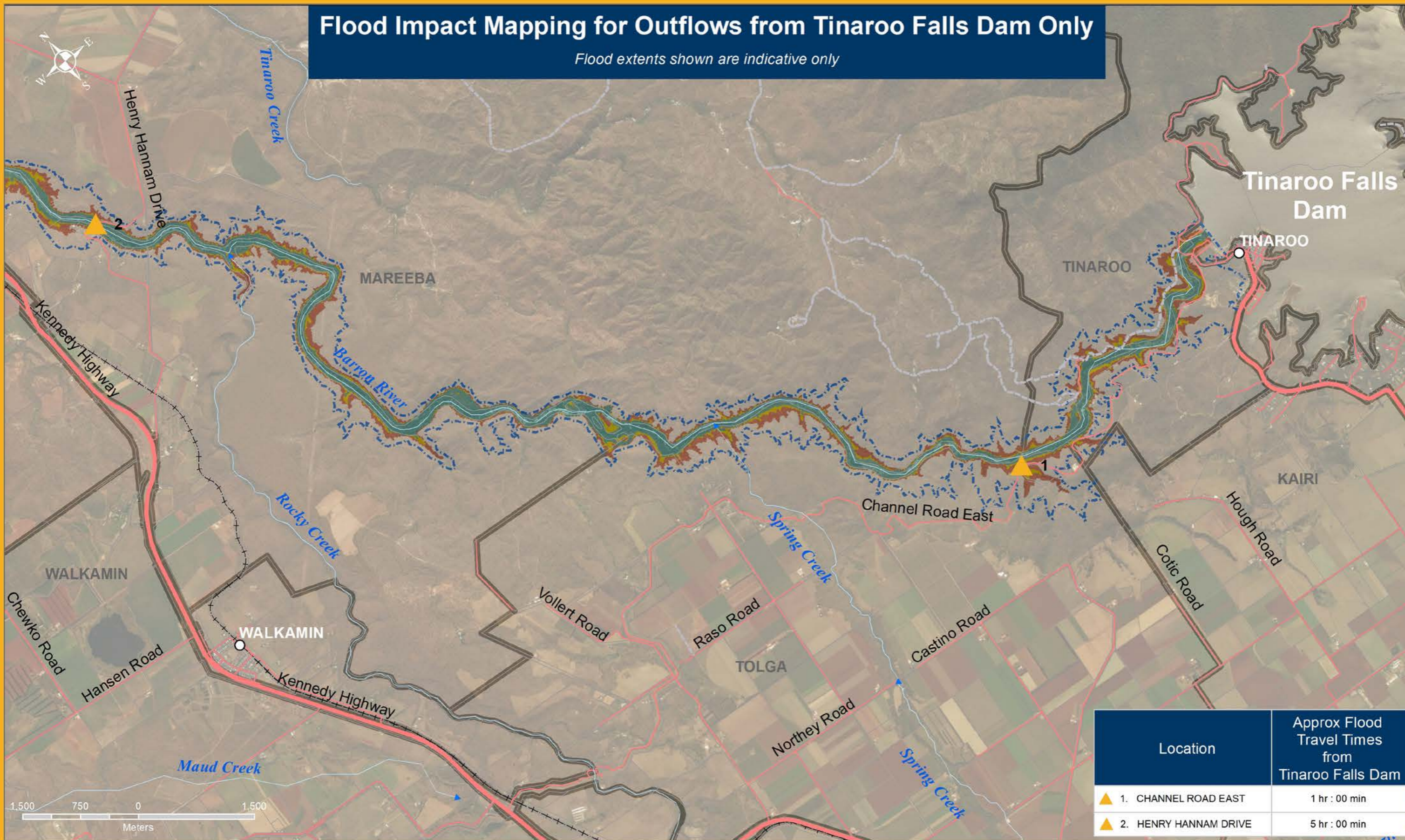
WATERCOURSE Barron River	MAXIMUM STORAGE CAPACITY & LEVEL AT 100% 438,900ML, 670.42m AHD
DAM CATCHMENT AREA 550km ²	OUTLET VALVE CAPACITIES Irrigation outlet – 605ML/d per gate River outlet – 1814ML/d
NEAREST TOWN Atherton	

Tinaroo Falls Dam and Barron River Catchments



Flood Impact Mapping for Outflows from Tinaroo Falls Dam Only

Flood extents shown are indicative only



Location	Approx Flood Travel Times from Tinaroo Falls Dam
1. CHANNEL ROAD EAST	1 hr : 00 min
2. HENRY HANNAM DRIVE	5 hr : 00 min

Note:

- A. Flood Mapping for areas further downstream is not shown here as these areas will become more impacted by other creek and catchment inflows (not just dam outflows).
- B. Flood travel times are indicative for flow to reach the locations shown following releases from the dam. Travel times may vary with larger floods and may be significantly less than shown.
- C. Flood impacts may be experienced beyond the extent of the 'red' zone up to the Probable Maximum Flood extent (indicated on the legend).

LEGEND

- ▲ 1 Flood depth and travel time location
- Highway
- Track
- Railway
- Property Boundary
- Suburb Boundary

Outflow Rate

- Flood extent for 1,000m³/s dam outflow
- Flood extent for 3,000m³/s dam outflow
- Flood extent for 10,000m³/s dam outflow
- Probable maximum flood extent

