

Tumbulgum Community Action Team

Your HUB co-ordinator is : _____

Address: _____

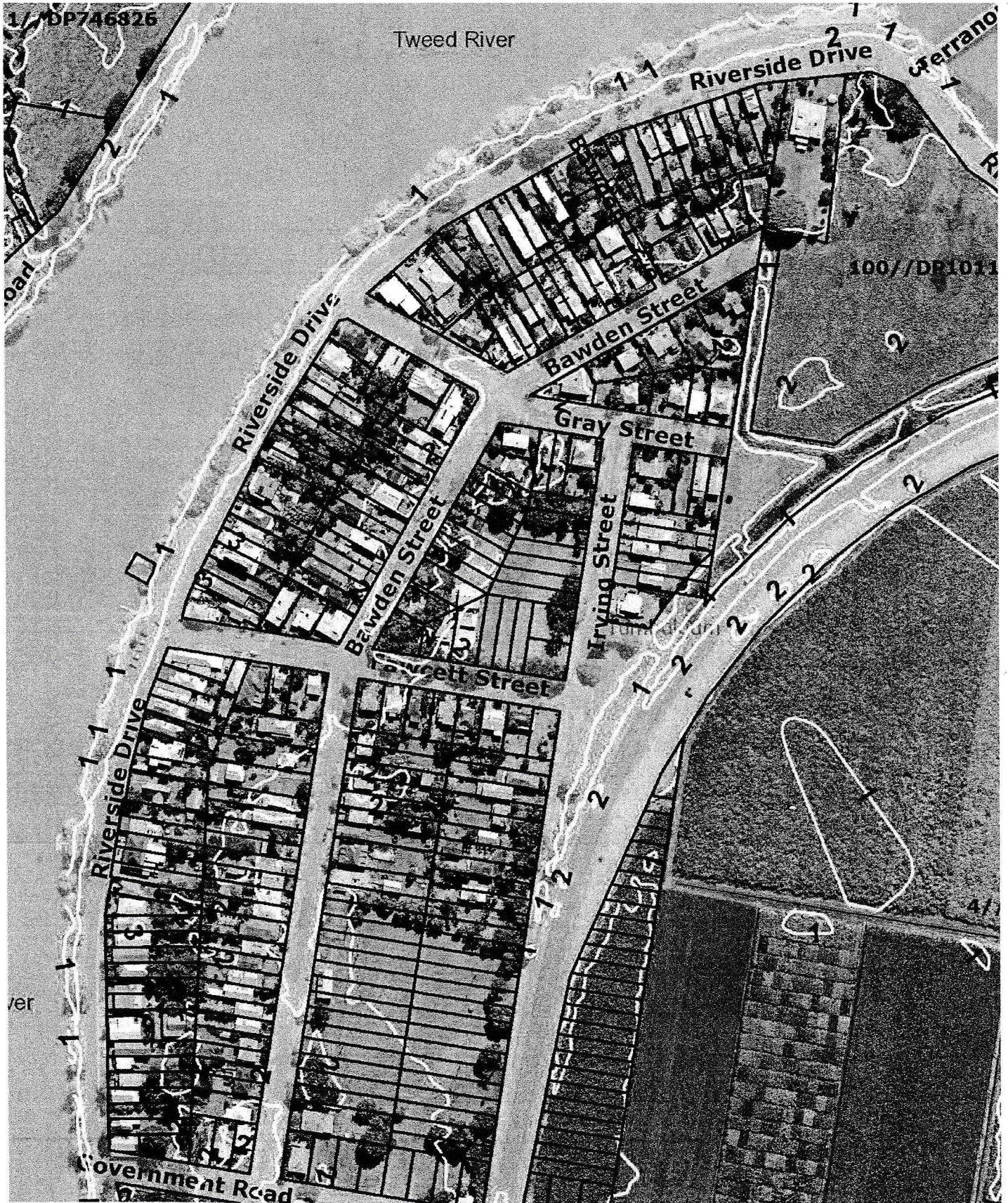
Phone Number: _____

Email: _____

Feel free to contact me at any time to discuss any issues you may have in regards to this matter.

December 2018.

TUMBULGUM VILLAGE



TUMBULGUM **GET** PREPARED!

This information is provided to help residents make decisions for future flood events.

It has been prepared by your Community Action Team in December 2018

Because of its location on a flood plain at the confluence of the Tweed and Rous River systems Tumbulgum is subject to regular flooding. Each flood event is different; streets affected and depth of inundation will vary. This general information is provided to help you make decisions based on your individual circumstances. Please consider the following basic facts.

Cane drains behind the village overflow into Irving St and progressively into Bawden St; this often occurs prior to the river breaking its banks onto Riverside Drive. When all these waters meet, Tumbulgum Village is totally isolated, so decisions need to be taken and acted upon before this happens.

Exit roads north and south of the village, as well as Terranora Rd, will be underwater when the River Height on the Tumbulgum Gauge reaches 2m AHD. Australian Height Datum (AHD) is the measurement expressed in metres above mean sea level.

A Flood Watch and Flood Warning will be issued by the Bureau of Meteorology (BoM) on their website and through the State Emergency Service (SES) and media when heavy rain threatens a flood event across the Tweed Valley. The SES leaflet in your Kit provides detailed information on how to read and interpret BoM rainfall and river height data.

Most homes in the Village have a habitable first floor height above the 1% ARI (Annual Recurrence Interval) i.e. 1% chance of this flood level occurring in any one year. However, many ground floor areas will be in the flood flow zone, subject to inundation, so you need to determine beforehand how floodwater will impact on your property. "My Home Flood Record" (the last page of the SES leaflet) allows you to develop a personalised record of effects of previous flood events on your property.

This information provides a basis for developing your own Flood Action Plan, which is your key to minimising risk to life, loss of property and confusion in times of stress.

Flood Action Plan

Your **Flood Action Plan** aims to manage your household's strategies and should include:

- **People (and Pets)**
- **Property**
- **Parking**
- **Paperwork**

These headings are prompts for you to develop and document ways in which you can help yourself and we can help each other when we next face the challenge of the next flood.

The information in this Kit has been assembled by your Tumbulgum Community Action Team (CAT) to help you prepare your Flood Action Plan. We want to work with you to ensure safety of all and to minimise loss when the next flood occurs. This is why a CAT Co-ordinator will exchange contact details and other vital information with all residents to facilitate communications and information-sharing. When the BoM issues a Flood Watch for Tumbulgum – based on BoM data, forecasts, historical flood data and local input from SES – the CAT Co-

ordinator for your Hub will try to contact you to share this information and to find out your plan and your needs.

People (and Pets)

Included in your Kit are several ways in which you can choose to develop and document your personal **Flood Action Plan**.

- Previous experience has shown that many residents choose to stay in their properties during a flood event, even when this means isolation. **This is not a strategy recommended by the SES.** Please consider likely loss of essential services such as power, water, phone, internet, gas, and sewerage. Communications and comfort depend on services. Of course, food and medication needs are critical.
- Make a decision about your actions in a flood event. Stay or Leave? You must consider your individual household needs. Are there children, elderly, medically dependant or disabled people who must be helped before roads become impassable?
- Don't forget your Pets. How will you feed and care for them?
- The Red Cross leaflet "Get Packing" (included in your Kit) provides an excellent checklist of things to consider when packing essentials for emergencies. The Red Cross website www.redcross.org.au/prepare provides a link to a very comprehensive booklet 'Your Emergency RediPlan'. You may wish to read, or even download to fill in personal details to help you deal with emergencies. The critical thing is to prepare a plan and know what you will do.
- Your Kit includes guidelines based on past experience about likely conditions on access roads. Please include this in considering your **Flood Action Plan** for preserving life and property.
- Share flood experiences with your neighbours and the 'old hands' to increase your flood-risk awareness and to create your **Flood Action Plan**.

Property

Residents need to make the difficult decision whether to lift/not lift possessions located at ground floor level. Individuals **Flood Action Plans** based on their property's flood history and incoming BoM data, forecasts and warnings will form the basis of this decision. SES will endeavour to provide adequate lead time for this work but it is a personal decision and responsibility. Information provided in your Kit will help you make these decisions.

Emergency Service Organisations, particularly the SES, will most likely be unable to individually assist you. They have to prioritise any requests for assistance and may be overwhelmed in a major flood so will focus on life threatening incidents. In any major flood event road access to the Village will be cut they will be unable to get to you.

NOTE: Your Kit suggests actions you can take **now** rather than wait for the next flood event.

Parking

Historically, loss of vehicles (cars, trailers, boats, motor mowers, bikes) has been a significant source of property loss in Tumbulgum floods. We have estimated that up to 200 vehicles were lost in the 2017 event.

Your Tumbulgum CAT team has developed a Village-wide strategy to help minimise this loss. We have developed a 'Flood Parking Plan' with the support of North Tumbulgum residents in flood-free areas to enable evacuation of as many as possible vehicles prior to inundation. In the past Tumbulgum's Twohill Bridge has been utilised for flood-free parking, but (apart from being illegal and potentially impeding traffic) this is clearly not enough for the vehicles in the Village. With collaboration and forward planning it should be possible to minimise vehicle loss by adhering to the Flood Parking Plan in the leaflet provided in your Kit. Please read it carefully and join in the community's efforts to help ourselves and each other when disaster looms.

Paperwork

The SES has provided us with a waterproof emergency document holder, '**Get Ready Northern Rivers NSW!**' which we have used to hold the Kit documents. On the front there are important contact numbers and other details, as well as the opportunity to write important personal information. Please consider using this handy holder for keeping information in one place.

Inside this folder, which we are calling the Kit, your Tumbulgum CAT has included various leaflets and comments to help with your flood preparation. Some 'old hands' will have been through all this before but keeping up to date is never a bad investment.

Information about how to best manage electricity issues, gas bottles, garbage bins and our unique sewerage system during flood events has been researched and included to help you. Please take the time to familiarise yourself with the material in the Kit and devote some time and thought to developing your **Flood Action Plan**.

SES Support

The SES is made up of dedicated volunteers who are there to support us in times of flooding. However, the community needs to understand that in heavy rain the Tweed Valley Catchment can experience flooding of the Valley in less than 6 hours. The upper catchment, including Tumbulgum, can quickly be isolated by inundation hence out-of-area support teams cannot be brought in to assist. Thus 50-odd local SES members must provide flood support for more than 25,000 people in a geographic area from Tumbulgum through to Numinbah in the north to Nimbin Turnoff, to Crabbes Creek in the south and to the M1 Motorway to the east.

There are limited local resources available to our SES.

Realistically, unless the community is prepared for flood events, takes advice, responds to triggers and complies with SES recommendations, local lives and property will be put at risk. So it is over to us to take responsibility for our safety and well-being. Let us co-operate to make sure that

TUMBULGUM IS PREPARED!

Tumbulgum Community Action Team for Emergencies

My Address: _____

My Name: _____

My Contact Details: Best: _____
Other: _____ h/w/m

My Email: _____

Emergency Contact: Name: _____
Phone Number: _____

Details for others in household: A=Adult; C=Child; D=Disabled; E=Elderly

Name	A,C,D,E	Phone Number (if different)

Pet/s Y/N (circle) What and number of? _____

If there is an emergency will you need assistance with anyone in your household or with your pets? Yes No If "Yes" Please Specify:

How many vehicles are in the household? Number and type: _____

Do you have an Action Plan for **WHEN** and **WHERE** to park your vehicle/s when it is flooding? Yes No Please look at map in package

Which radio station do you listen to? Local ABC Other

Are you able to assist neighbors if needed? Yes No

If "Yes" – How can you assist? _____

DEC 18 CAT

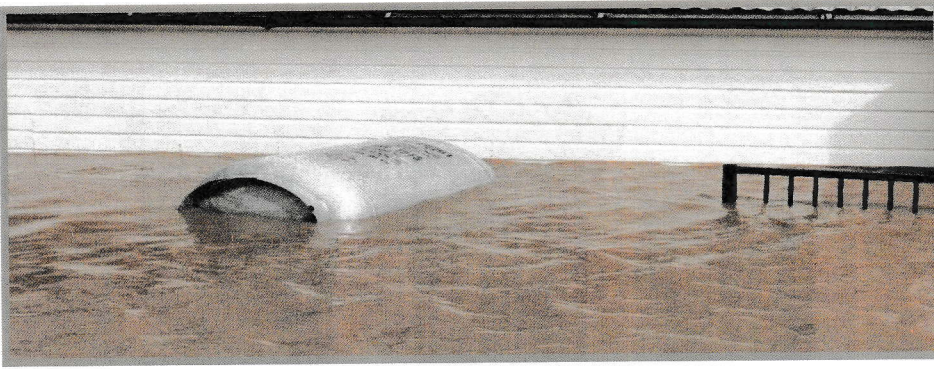
Tumbulgum: GARBAGE BINS



Tweed Shire Council's Waste Management Department provides the following advice to assist residents in flood-prone areas.

1. Provided your bins are not too heavy it would be preferable if residents can lift them up onto the verandah out of reach of flood waters. This will depend on how full your bins are and individuals' ability to handle them
2. Alternatively, residents may be able to secure bins at ground floor level to posts and other house supports. However, please be aware that bins full of water are very heavy and will need to be firmly secured so as not to become loose and damage your property.
3. TSC appreciates that in flood situations time is limited and dealing with garbage bins may not be a priority.
4. Should you lose your bins during a flood contact TSC on (02) 6670 2400 after the flood has passed to request a replacement at no cost. Please allow time for this as there may be a high demand.

Tumbulgum: GAS CYLINDERS



Photograph Tumbulgum April 2017

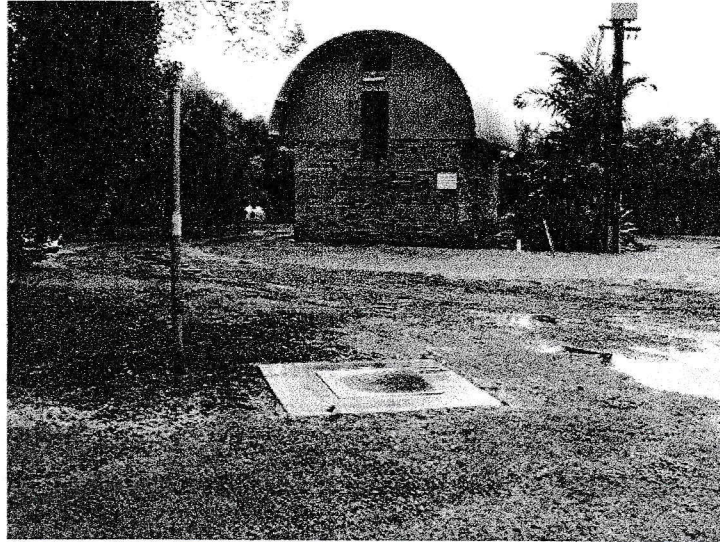
Gas cylinder suppliers in our area offer the following advice to residents of flood-prone areas such as Tumbulgum.

1. Gas cylinders need to be securely fastened to prevent the connection being torn from the wall during floods.
2. The best way to secure a cylinder is to chain it to the wall around the bottom to limit its movement.
3. Unsecured cylinders will float, possibly banging against walls and damaging your property.
4. Provided that the cylinder is securely fastened there is no need to turn it off. They are sealed and householders can continue to cook with gas during flood if they are secure.
5. If your cylinders are not secured they should be turned off for safety. Fast-flowing floodwaters can rip connections from your wall. This poses a danger.

Your CAT strongly recommends that you should secure your gas cylinders to your wall with chains NOW before the next flood event.

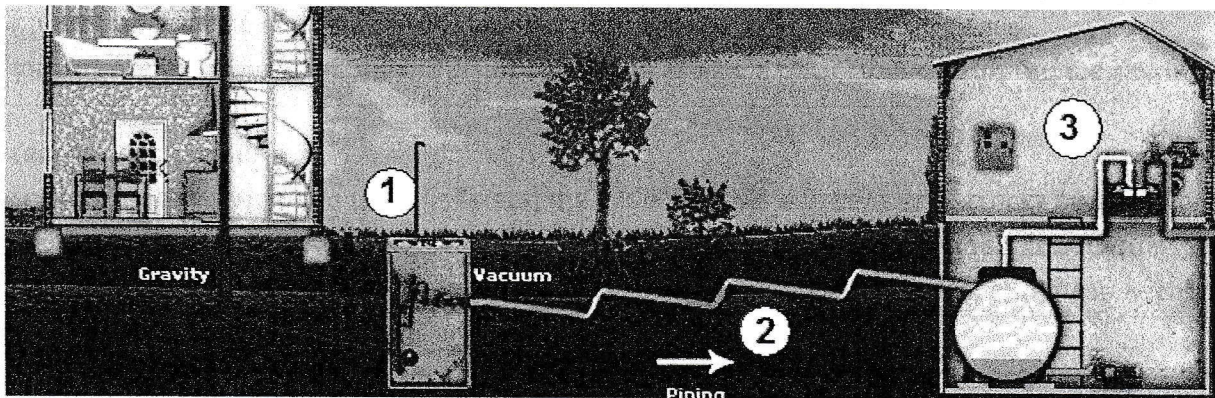
TUMBULGUM SEWER SYSTEM

Resident Information



Your sewerage system at Tumbulgum is unique in that it relies on a vacuum to move waste. For the vacuum to occur, air tight seals at various intervals along the length of the sewerage lines are required. Foreign objects, other than human waste and toilet paper, introduced into your wastewater system have the potential to reduce the integrity of each seal resulting in blockages and overflows.

What is a vacuum sewer system



Vacuum sewer consists of gravity sewer from the property to a vacuum interface chamber (VIC). When the level of wastewater in the chamber reaches a set point a valve opens and sucks the contents into the vacuum pipe that pulls the vaporised sewage to the collection station.

Tumbulgum has 43 vacuum interface chambers with approximately 4 houses connected to each. The collection station is located at the reserve at the end of Government Road. Sewage is transferred from this station across the main road to the treatment plant located 600m into the adjacent farmland.

TUMBULGUM SEWER SYSTEM

Resident Information



Operational Differences

Vacuum systems require more maintenance than typical gravity systems.

Residents should be aware of the following:

- VIC's are mostly in backyards – Residents need to:
- Ensure Council's access is not impeded
- Let us know about pets when we attend
- Know that we may need to intrude at all hours to fix problems
- Know that we sometimes need to carry hoses and other gear through the property
- We will door knock during daylight hours before entering

During and after rain moderate events the system may sometimes struggle to maintain vacuum. You may see Council around the village at these times to help the system recover.

During large flooding events once water is throughout the town, Council shuts the vacuum system off until the water recedes because it cannot cope with completed flooded conditions. Once water recedes Council will be in the village and it's likely that we will have suck trucks pumping out VIC's to recover the system.

Recent upgrades have significantly improved the systems performance and reduce the likelihood of Council needing to act. The improvements included:

- All VIC valves were replaced with a new type of valve
- The vacuum line was split into 2 lines coming into the station to allow sectorisation
- Telemetry and PLC renewed
- More telemetry in the field (VIC's)
- New vacuum pumps installed to double existing grunt

Minimise infiltration

Council actively inspects properties to ensure stormwater is not connected to or entering the household sewers. If we find infiltration problems we will work with the owner to fix them.

Infiltration during rain is what kills a vacuum system. Please don't connect stormwater to sewer. If you think you may have stormwater entering your sewer please call us.

ITEMS YOU CAN'T PUT INTO A VACUUM SYSTEM

Cotton buds	Condoms	Toys
Foreign objects	Nappies	False Teeth
Cooking oil / fats	Sanitary products	
Tampons	Hanging deodorisers or others	

Council contacts – if you have a sewer problem

During Hours	02 6670 2400
After Hours	1800 818 326

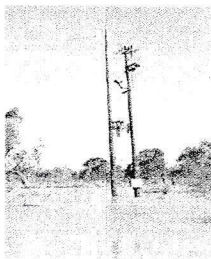
Flood waters can damage electrical installations. Deposited mud and debris can conduct electricity, making the installation unsafe during and after the flood.

Flood waters can also lead to corrosion of electrical connections and significantly increase the risk of the connection failing or causing a fire. An installation that has been inundated with flood water requires careful inspection and repair before supply can be restored.

This fact sheet provides some information about what you can do to stay safe around electricity during severe flooding.

How should I prepare for a flood?

- Where possible raise all electrical appliances before the flood
- If you have some warning that you will be flooded contact Essential Energy on **13 20 80** to have your supply disconnected before the flood if your home is going to be inundated. Please ring early to allow time for us to respond, as we will have many calls
- If your supply has not been disconnected, turn off all switches and main switches before the flood. To reduce the risk of electric shock, do not use any part of your body to hold the meter box lid open – use the prop or an object which is non-conductive.



What should I do during a flood?

- Do not stay inside a building that is inundated when the power is connected
- Do not use any electrical appliances that have been wet or damaged
- When operating a domestic portable generator refer to the manufacturer's operating instructions and the Essential Energy "Domestic Portable Generator" fact sheet. Visit our website at essentialenergy.com.au/safety or call **13 23 91** for a copy of the fact sheet
- If you are in a boat, be aware that rising flood waters reduce the clearance of overhead powerlines
- Be aware that floodwaters can damage the electricity network

- Always stay at least eight metres away from the electricity network, including poles, substations, fallen powerlines and any objects in contact with them. Electricity can arc to surrounding objects, which means that you can be seriously injured by electricity without actually touching the powerline
- If parts of the electricity network or fallen powerlines are covered in flood waters stay at least 150 metres away because water conducts electricity. Call Essential Energy immediately on **13 20 80** as you may need to evacuate if in close proximity to buildings
- If you receive a shock or tingling sensation from any electrical appliances, plumbing, metal, sink or bath, avoid all contact with the appliance or objects in question and call our 24 hour power outage line on **13 20 80** and report the problem as soon as you can.

After the flood

- Have the installation inspected by a qualified electrician and repairs carried out before contacting Essential Energy to have the power restored
- Do not plug in or use any appliances that have been in the flood water until they have been checked by a qualified electrician
- Call Essential Energy on **13 20 80** before turning the power on if the structure has been inundated by flood waters.

For more information

Essential Energy's Public Safety team is available to facilitate Electrical Awareness sessions and discuss any questions relating to electrical safety.

For more information on electrical safety please call Essential Energy:

General enquiries 13 23 91

Power outages 13 20 80

Follow us  

or visit essentialenergy.com.au/safety

Be safe, because they need you



TUMBULGUM FLOOD PARKING PLAN

Remember – Your vehicles are **YOUR** responsibility!

PARKING OPTIONS IN ORDER OF PREFERENCE:

1. Move vehicles, caravans etc. to relative or friend's flood-free property when a Flood Watch is announced.
2. Choose one of the three available sites **ON MAP**. Visit site to get familiar with access and talk to owner.

2

1094 Terranora Rd Nth Tumbulgum

- * Approx 40 vehicles – access may be slippery may suit 4WD's better.
- * Includes area behind and in front of house and on pad beside drive before reaching house.
- * DO NOT BLOCK ACCESS**

3

1089 Terranora Rd Nth Tumbulgum

- * Approx 50 vehicles.
- * Includes area behind and in front of house.
- * DO NOT BLOCK ACCESS**

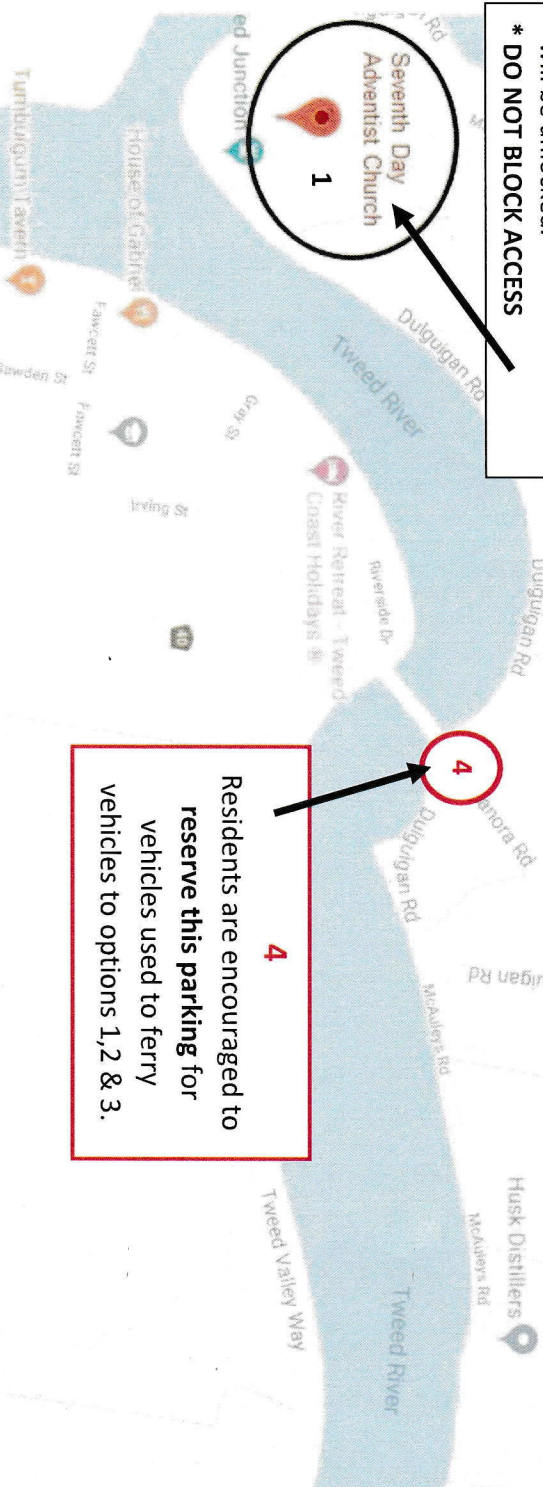
1

SDA Church – 1003 Dulguigan Road

- * Approx 60 vehicles in car park
- * Approx 10 more right angle parking on grass adjacent to access driveway
- * When a flood is expected carpark will be unlocked.
- * DO NOT BLOCK ACCESS**

4

Residents are encouraged to **reserve this parking** for vehicles used to ferry vehicles to options 1, 2 & 3.



SPECIAL NOTES

Access to 1 along Dulguigan Road will not be possible once any flooding reaches a river height of **1.5m AHD***

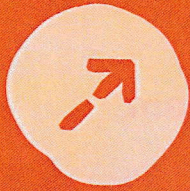
Access to 2 & 3 may be impacted by heavy local rainfall affecting drains adjacent to Terranora Rd past the Dulguigan Rd turnoff.

The road may not be passable once flooding reaches a river height of **2m AHD***

* AHD is the river height measurement used by the BOM at the Tumbulgum gauge.

TUMBULGUM CAT 18 DECEMBER 18

TCA gratefully acknowledges the generous community contribution of the owners of the North Tumbulgum properties. Residents who use the above sites do so at their own risk. Please respect the owner's property and remove your vehicles as soon as practicable after the flood event has passed. **** PLEASE LEAVE CONTACT DETAILS VISIBLE ON DASHBOARD**



GET PACKING

Get your essentials together



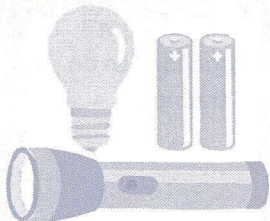
Keep this handy checklist on the fridge until it's done!

Packing your survive and recover kit can be satisfying and fun, especially for the kids. So get together with everyone in your household or your personal support network to make a list of what you'll need.

Chances are you'll already have many necessary items in the house. If you need to buy anything, remember you don't have to do it all at once. You can stagger it over weeks or months—a few items each time you shop.

Suggested survival items:

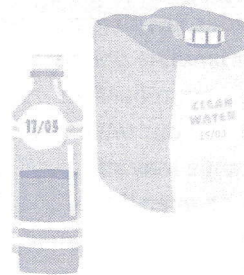
Light



NOTE!

Don't leave batteries in the torch, and check them every six months. Consider wind-up torches that don't need batteries. Red Cross sells them online at redcross.org.au

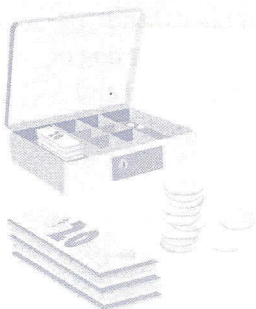
Water



NOTE!

Never drink tap water after an emergency until authorities have advised it is safe. Water can be stored for up to 12 months in airtight containers. Label when water was last changed.

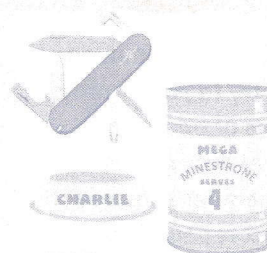
Cash



NOTE!

Many people do not carry large sums of cash. ATMs and banks may not be operating in the early stages of any emergency. Having some cash will help meet basic and urgent needs.

Food



NOTE!

Remember the needs of everyone in your household, including babies, children and pets. Have at least three days' worth of food (meals, drinks and snacks) ready in case you need to leave home. If staying home, you will need food high in energy with a long shelf life that's easy to prepare.



Take your medicine

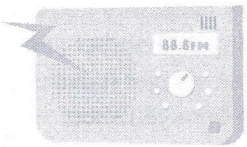
Medical needs are an important consideration for everyone when packing a Survive and Recover Kit.

Plan to have 14 days' worth of any medications you might need.

Radio

NOTE!

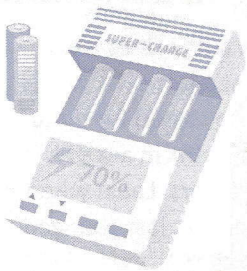
Radio is often the best source of information in an emergency. Mark on the dial the frequencies of your ABC Local Radio and any other local radio services. Red Cross sells wind-up emergency radios online at redcross.org.au



Chargers

NOTE!

Have a charger or charged battery pack for your phone. Also consider, keeping an older landline phone that is not reliant on power—your telephone exchange may still operate even if the power is out.



Protective clothing / blankets

NOTE!

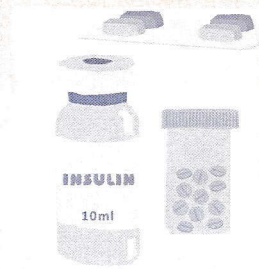
Consider clothes made from natural fibres, keep seasons in mind, and try to pack sturdy shoes or boots and heavy-duty gloves. Remember sunscreen, insect repellent, and wide-brimmed hats.



Special medical supplies or equipment

NOTE!

Consider what medications or supplies you might need and include these, alongside a list with their title, dosage and copies of your prescriptions.



Toiletries

NOTE!

Having toiletries can help keep you refreshed and give you a sense of routine—even when you are unable to wash or shower.



First Aid Kit

NOTE!

As well as buying a Red Cross household or car first aid kit, it's also a good idea to do first aid training.



Pet essentials

NOTE!

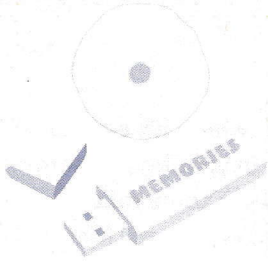
Factor your pet into water needs, and make sure your dog or cat is registered and microchipped.



Most of the things you need will be at a supermarket, hardware store or even the \$2 shop. Remember you may already have useful items around the home, such as camping equipment.

Suggested recovery items:

Scans or photocopies of important documents

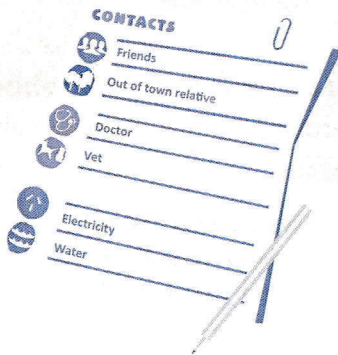


- Passports
- Wills
- Driver's licences
- Marriage and birth certificates
- Land titles
- Mortgage papers
- Insurance papers
- Prescriptions
- Medical histories
- Child immunisation books.

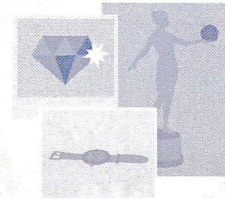
NOTE!

Check functionality regularly, and use waterproof or fireproof containers if necessary. It's a good idea to have a back-up copy of documents securely stored in an alternative place to home, perhaps in a locked drawer at work, with a family member, or stored in the cloud.

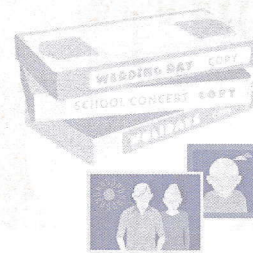
Your RediPlan



Photographs of valuable household items



Copies of videos and photos



Store your scans or copies so that they can be grabbed quickly and easily if you have to leave.

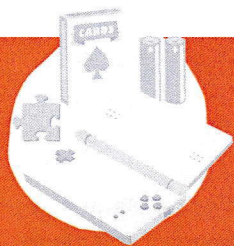
The same care taken with your important documents can be applied to your personal videos and photos.

Take photos of any important household items, particularly those that are insured. Store the photos in a secure place, with copies in your kit, to assist with any insurance claims after the emergency.

Map where your valuable items are stored in your home in case you have to collect them quickly.

Make sure valuable items are stored well above ground level, or use waterproof containers.

Consider purchasing a fireproof safe for valuables. Keep some sturdy garbage bags for putting other items of sentimental value in, in case you have time to collect them in an emergency.



Entertainment

Comfort the kids

Children will need familiar things to help comfort them in a stressful and uncertain situation. Talk to your kids about what's important to them.

This is likely to be different to what you think is important to them.

Store and review your kit

As you can see, you'll need more than a simple shoulder bag to hold your survive and recover kit.

You'll need a sturdy container, preferably waterproof. Think about a box with wheels or handles and a watertight seal. Alternatively you can use a large sports bag or a suitcase with wheels. Arrange your container last so you'll know what size it needs to be.

Store your survive and recover kit where it's easy to access—close to an escape route in your house, or in a shed. Mark your kit clearly, and put some reflective tape on it so it can be seen easily in darkness. Make sure everyone in your household and personal safety network knows where it is.



Set an annual reminder in your phone and/or calendar to check your survive and recover kit.

Make a note of any perishables and rotate them through your bathroom and pantry. Your kit should be updated to reflect changes in your life, such as the addition of children or pets, changes to relationships, location changes, and so on.

STANDARD OPERATING PROCEDURES FOR THE VILLAGE OF TUMBULGUM



Bureau of Meteorology Website

www.bom.gov.au

The Bureau of Meteorology (BoM) website provides a range of information including rainfall and river heights which are essential information for people living in flood affected areas.

The BoM radar is a great way to observe the rainfall associated with major weather events such as severe thunderstorms, east coast lows and tropical cyclones.

The following information provides a guide to reading the BoM radar to find rainfall and river height readings for the local Tweed area.

Approximate Rainfall Rates

The BoM radar images are taken from a beam that slices through the atmosphere at approximately 3000m above the ground. This information is represented in a Rain Rate scale as seen below. The scale can be used as a general guide but they are not always accurate.



The BoM identify levels of rainfall intensity shown on the images - each colour provides an approximate indication of the rainfall rate.

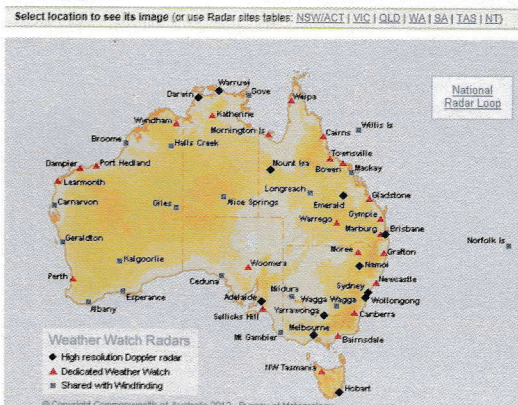
The radar image isn't showing rain on the ground but it is highly indicative of what rain would fall.

On some occasions you may see very light rain (white colour on Rain Rate scale) which shows up on the radar at 3000m however it may evaporate as it falls to ground level. At other times light rain may fall from low level clouds below the radar beam and so the rain will not be seen on the radar images.

Moderate to heavy rainfall falling from thunderstorms or other deep cloud is generally well represented on the radar images.

Radar Locations

Radar Images



Reference: Bureau of Meteorology, www.bom.gov.au

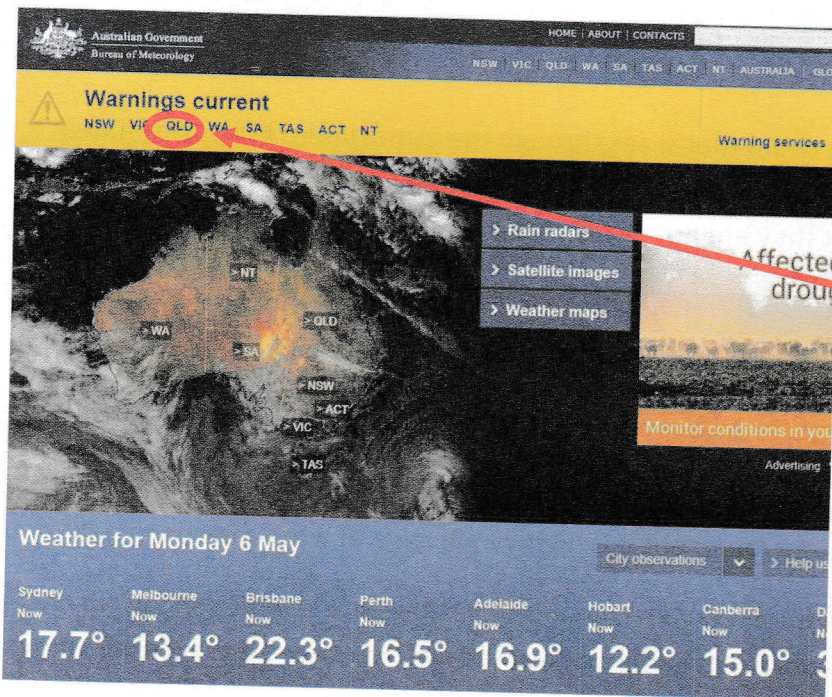
How to Use the QLD BoM Site for Rainfall, Temperature and Wind Direction

Tweed Shire residents should access both the NSW BoM and the QLD BoM sites for the most accurate and relevant information. The QLD BoM site has the closest radar (Brisbane, Mt Staplyton radar icon) to these areas so please use the following instructions to access this site.

Step 1

Go to www.bom.gov.au (Save as a favourite)

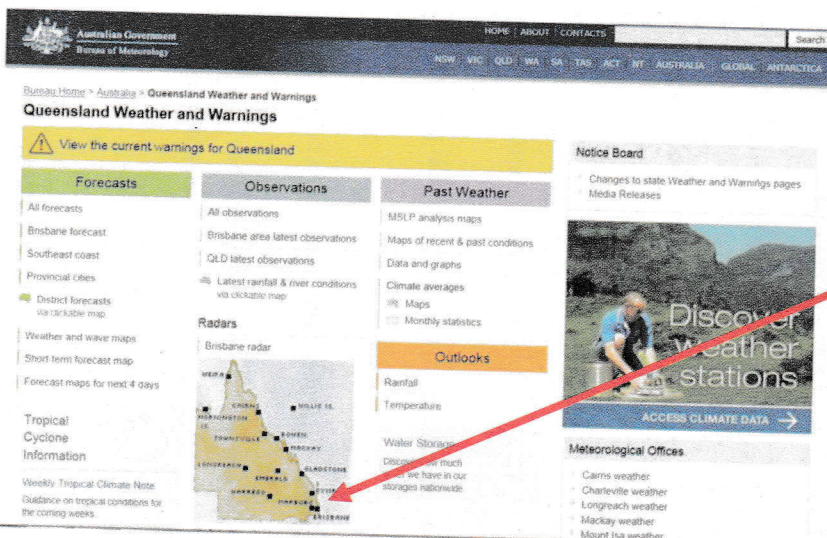
Step 2



Click on the
QLD icon

Step 3

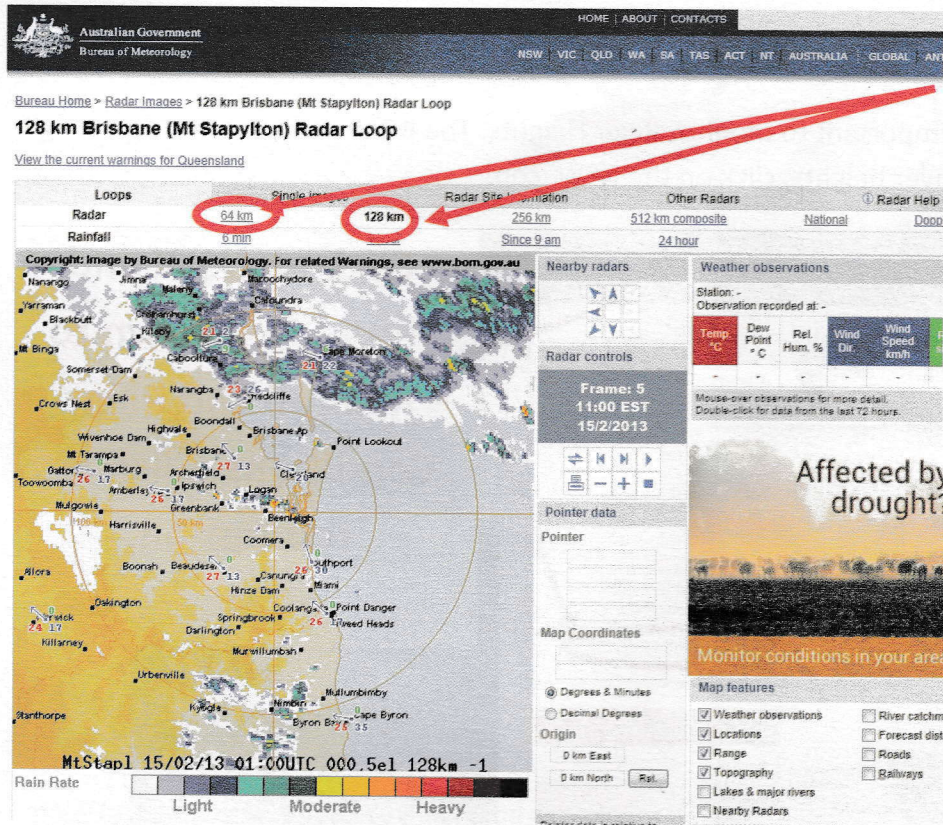
The closest local radar to your town is the Brisbane, Mt Staplyton radar icon



Reference: Bureau of Meteorology, www.bom.gov.au

Step 4

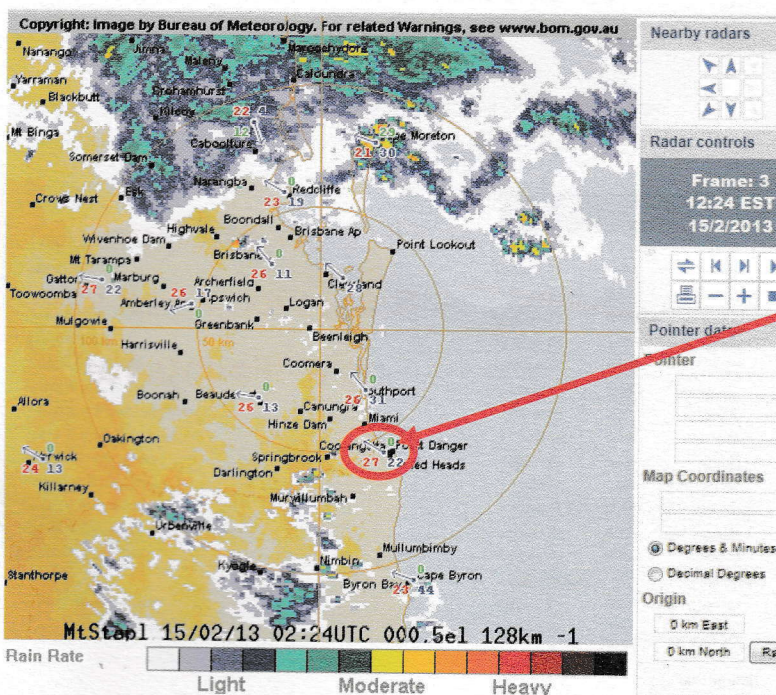
The radar enables you to look at weather from a 64km up to a 512km radius in your area.



For a close look at a storm front in your area, click on the 64km or 128km radar option

Step 5

For rainfall, temperature and wind direction place your pointer over the closest arrow on the map to your location and double click.



Click on the closest arrow to your town

How to Use the NSW BOM Site for River Heights and Rainfall

Step 1

In severe weather events it is important to monitor River Heights. The BOM site provides River Height Gauge levels. For the Tweed River heights, click on the NSW Icon.



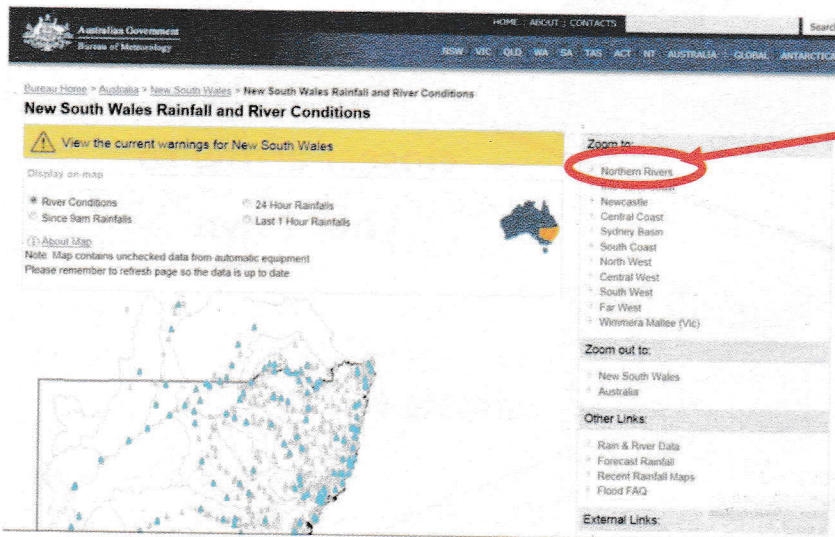
Click on NSW and then scroll down to Rainfall and River Conditions. Click on this option.



Meteorological Offices

- Cobar weather
- Coffs Harbour weather
- Lord Howe Island weather
- Moree weather
- Norfolk Island weather
- Wagga Wagga weather

Step 2



Click on the Northern Rivers icon and save as a "Favourite".

Step 3

Go to the Latest observation box (right hand, top of column) and select. This will provide river heights over a designated period.

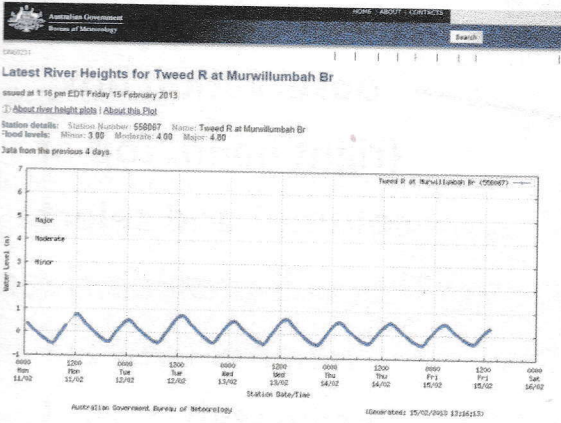
Step 4 – RIVER HEIGHTS

If you choose River Heights it can be viewed as a plot or a table.

Station Name	Time/Day	Height	Tendency	Flood Class	Recent Data
Tweed River					
Tyalgum Bridge	1.13pm Fri	0.85	falling		Plot Table
Clamia Hall Dam	11.41am Fri	81.67	steady		Plot Table
Clamia Hall Dam D/S	1.01pm Fri	0.55	steady		Plot Table
Tweed R at Palmers Road	12.40pm Fri	0.88	steady		Plot Table
Tweed R at Uki	12.12pm Fri	1.34	steady		Plot Table
Oxley R at Eungella	12.22pm Fri	0.84	steady		Plot Table
Tweed R at Bray Park Weir	12.29pm Fri	2.08	steady		Plot Table
Tweed R at Murwillumbah Br	1.14pm Fri	0.37	rising	below minor	Plot Table
Tweed R at Murwillumbah	1.11pm Fri	0.34	rising	below minor	Plot Table
Rous R at Chillingham	1.06pm Fri	0.98	steady		Plot Table
Rous R at Boat Harbour	1.13pm Fri	0.36	rising		Plot Table
Tweed R at Tumbulgum	1.11pm Fri	0.41	steady		Plot Table
Tweed R at Barnays Point (mAHD)**	1.07pm Fri	0.43	steady	below minor	Plot Table
Tweed R at Dry Dock	1.06pm Fri	0.38	steady		Plot Table
Cudgen Creek					
Cudgen Ck at Kingscliff	3.00am Fri	0.08	falling		Plot Table
Cudgen Lake at Bogangar	2.45am Fri	0.68	steady		Plot Table
Brunswick River					

Reference: Bureau of Meteorology, www.bom.gov.au

Plot



Table

Latest River Heights for Tweed R at Murwillumbah Br
Issued at 1:16 pm EDT Friday 15 February 2013
About river heights | About this table
Station details: Station Number: 558067 Name: Tweed R at Murwillumbah Br
Flood levels: Minor: 3.00 Moderate: 4.00 Major: 4.80
Data from the previous 4 days:

Station Date/Time	Water Level (m)
11/02/2013 00:46	0.36
11/02/2013 00:47	0.34
11/02/2013 00:50	0.32
11/02/2013 00:51	0.34

Step 5 – RAINFALL

To get rainfall readings repeat Step 3 and select one of the rainfall options.

View the current warnings for New South Wales

Display on map

River Conditions
 Since Dam Rainfalls

24 Hour Rainfalls
 Last 1 Hour Rainfalls

Move mouse over station for more data.

River Conditions at 02:01PM 15/02/13

- ▲ Major Flooding
- ▲ Moderate Flooding
- ▲ Minor Flooding
- ▲ Below Flood Level
- ▲ No Classification

Latest Observations:

- ▶ River Heights
- ▶ 24 Hour Rainfalls
- ▶ 3 Hour Rainfalls
- ▶ 1 Hour Rainfalls
- ▶ Grafton Radar Loop

Zoom to:

- ▶ Northern Rivers
- ▶ Mid North Coast
- ▶ Newcastle
- ▶ Central Coast
- ▶ Sydney Basin
- ▶ South Coast
- ▶ North West
- ▶ Central West
- ▶ South West
- ▶ Far West
- ▶ Wimmera Mallee (Vic)

Zoom out to:

- ▶ New South Wales
- ▶ Australia

Other Links:

- ▶ Rain & River Data
- ▶ Forecast Rainfall
- ▶ Recent Rainfall Maps
- ▶ Flood FAQ

External Links:

Go to the Latest observation box (right hand, top of column) and select. This will provide rainfall readings over a designated period.

My Home Flood Record

EVENT	DATE	TIME	OCCURANCE	RIVER GAUGE at _____		ACTION REQUIRED FOR MY PROPERTY
				Predicted Height	Actual Height	
East Coast Low - Flood	25/1/13	8:00am	Water lapping back fence	4.8m	3.9m	Lift downstairs furniture Move cars to higher ground
	25/1/13	10:00am	Water under house	4.8m	4.1m	Lift upstairs furniture

EMERGENCY CONTACT NUMBERS

WHO	NAME	NUMBER
Help in flood and storms	NSW SES	132 500
Life threatening situations	Ambulance, Police, Fire	000 (Triple Zero)
Household Members		
Work		
Other friends & family		
Neighbours		
FACS Disaster Recovery	Family & Community Services (FACS)	1800 018 444
Electricity		
Gas		
Water		
Sewerage		
Telephone		
School		
Vet		

TICK THE ACTIONS OFF & REVIEW YEARLY

- Fill in the list of emergency numbers on the emergency contact numbers page and add the SES emergency 132 500 number into your mobile phone
- Check which radio station is your local radio frequency for emergencies
- Investigate your flood evacuation plans/routes
- Make up a Home Emergency Kit (in a large plastic container) consisting of:
 - A portable radio with spare batteries
 - A torch with spare batteries
 - A first aid kit with appropriate contents necessary to the household
 - Candles and waterproof matches
 - A waterproof bag for valuables
 - A copy of the emergency contact numbers list
- Put important documents in a document wallet and store in an accessible place
- Consider the needs of pets and other domestic animals in a flood
- Always consider the potential for flooding when storing items around the house and identify high points for stacking and storing possessions and furniture
- Check insurance policy