The Bureau of Meteorology

Service Level Specification for Flood Forecasting and Warning Services for Victoria – Version 4.3

Cover Image: Aerial view of flooding at Bulleen Road in Melbourne, Victoria, Paul Feikema, October 2022. Image sourced from iStock.

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1. Introduction

1.1 Purpose

The purpose of the Service Level Specification (SLS) is to document and describe the riverine flood forecasting and warning services provided by the Bureau of Meteorology (the Bureau) in Victoria.

Flood warning in Australia involves all levels of government (Commonwealth, state, territory and local), regional authorities and organisations that contribute to data observing networks, and communities. The development and implementation of flood warning system require a cooperative approach involving each of these stakeholders.

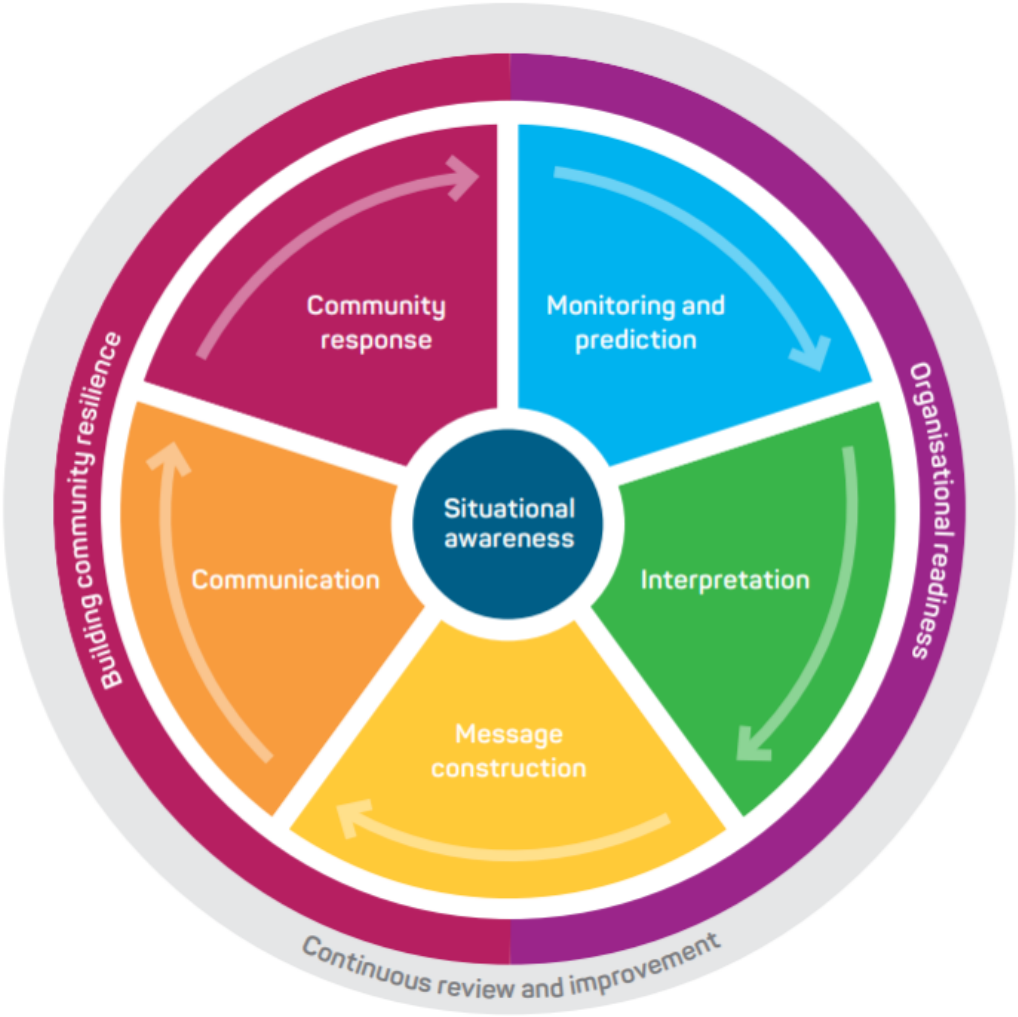

Figure 1 Total Warning System

Roles and responsibilities for flood warning services are detailed in the National Arrangements for Flood Forecasting and Warning (BOM 2018) and are affirmed by the Intergovernmental Agreement on the Provision of Bureau of Meteorology Hazard Services (the IGA) to the States and Territories. These are reflected in the membership of Flood Warning Consultative Committees servicing jurisdictions across Australia.

This SLS outlines the flood warning related products, issuance times and target levels of service constitute the current standard services that the Bureau is funded to provide. The Bureau also provides supplementary services on a cost recovery basis. Supplementary services are not covered in this document.

This SLS is concerned with describing the Bureau's role in the Total Flood Warning System and its interaction with other stakeholders as described in the IGA and the National Arrangements. This is to ensure that the service the Bureau is providing in support of each of the relevant components of the Total Flood Warning System is understood by the Bureau and other stakeholders.

The Bureau also contributes to activities designed to strengthen organisational readiness and build community resilience and participates in the planning and coordination of activities with disaster mitigation agencies.

1.2 Flood Warning Consultative Committee

1. The Victorian Flood Warning Consultative Committee provides the Bureau's key stakeholders with a consultation mechanism for its flood forecasting and warning services. As such, the committee is responsible for reviewing this Service Level Specification on an annual basis or as required.
2. The overall role of the Victorian Flood Warning Consultative Committee is to coordinate the development and operation of flood forecasting and warning services in Victoria, acting as an advisory body to the Bureau and participating State and local government agencies. Membership and terms of reference for this committee in Victoria are detailed in Schedule 1.
3. The Bureau chairs and provides secretariat support to the Victorian Flood Warning Consultative Committee, which meets six monthly depending on need and activity.

1.3 Scope

The scope of services covered by this SLS is confined to those dealing with riverine flooding caused by rainfall where typical rain-to-flood times are six hours or more. Flash flooding (rain-to-flood times less than six hours) and flooding caused purely by elevated sea levels are not covered, nor are the weather forecasting and other services the Bureau provides that contribute to the flood forecasting and warning service, including Severe Weather and Severe Thunderstorm Warnings, Tropical Cyclone Warnings, provision of radar data and rainfall forecasts.

The SLS includes undertaking the routine catchment monitoring and river height prediction activities necessary for operation of the Total Flood Warning System, as well as issuing and publishing specific warning and data products. These activities are listed below with further detail and associated performance measures provided in subsequent sections.

- Collect and publish rainfall and river level data
- Routine monitoring of flood potential
- Flood modelling and prediction
- Automated information and alerting
- Issue flood watches
- Issue flood warnings
- Communication of flood warnings and flood watches
- Data networks, communications and storage

- Operations
- Maintain systems to collect data and flood information
- Planning and liaison
- Support for emergency management training and training exercises

1.3.1 Collect and publish rainfall and river level data

The collection and publishing of rainfall and river level data is an important component of the overall service. Apart from use by the Bureau for data analysis and its hydrological modelling for flood predictions, the data is also used by the emergency service agencies, numerous operational agencies, businesses and the public to monitor rainfall and river conditions.

To assist in describing the service, the locations where river height, dam, weir or lake level, and tidal observations are made are categorised into three types; namely forecast location (Schedule 2), information location (Schedule 3) and data location (Schedule 4).

- **Forecast location** is a location for which the Bureau provides a forecast of future water level either as the class of flood that is predicted (minor, moderate or major) or as a level and class – refer to Appendix A for definitions. At these locations observed data, flood classifications and additional qualifying information will also be available (Schedule 2).

- **Information location** is a location at which flood classifications are defined and observations of water level data are provided. At these locations forecasts of future water level are not produced. Other key thresholds may be defined and reported against (Schedule 3).

- **Data location** is a location for which just the observed water level data is provided. Flood classifications are not available for these locations and forecasts of future water level are not produced (Schedule 4).

An indicative level of priority has been assigned to each observing site and key communication infrastructure such as radio repeaters (Schedules 2-4 and 6-8) based on a three tiered scheme (Table 1).

The priority level is based on the expected impact to the Bureau's services. The impacts identified are the expected outcome of a service outage at that site during a flood emergency. Impact is described in terms of forecast performance and the Bureau's ability to provide a flood warning service.

Note that the scope of this priority scheme is limited to consideration of the requirements of forecasting and prediction only and should not be confused with any other priority assigned to that site by third party owners or other users.

Table 1 Site priority

Priority Level	Impact on performance	Impact on service delivery	Description
High	Very difficult to meet target	Direct and significant high level impact for the site and/or downstream locations	Degradation of service highly likely.
Medium	Difficult to meet target	Some impact for the site and/or downstream locations.	Possible degradation of service.
Low	Not likely to affect meeting targets	Little impact on the site and/or downstream location	No change in service. Lower possibility of degradation of service.

Note: Multiple outages within a given network will lead to a higher impact and greater service degradation. Table 1 indicates the effect of a single site failure within an otherwise functional network.

1.3.2 Routine monitoring of flood potential

The Bureau will maintain an awareness of catchment conditions and monitor the potential for riverine flooding. This monitoring activity will be supported by the Bureau's weather services as required and is an activity undertaken to plan future flood operations.

1.3.3 Flood modelling and prediction

The Bureau will develop and maintain prediction systems for the forecast locations listed in Schedule 2a.

The Bureau prediction systems can include real-time hydrologic models, simple peak to peak correlations and other hydrologic techniques as appropriate.

The Bureau prediction systems will be maintained and updated following significant events or when new data becomes available.

The target level of performance for the prediction at each forecast location is given in Schedule 2a.

The responsibility for flood modelling and prediction services for tail water gauges and for locations immediately downstream of major gated storages impacted by storage operations rests with storage operators as detailed in Schedule 2b.

1.3.4 Automated information and alerting

In Victoria, the Bureau currently does not provide a threshold-based river alerting service.

1.3.5 Issue flood watches

The Bureau will issue flood watches when the combination of forecast rainfall and catchment conditions indicates flooding is possible. The catchments and basins covered by flood watches include all those listed in Schedule 9. Note that flood watches may cover catchments that do not have established flood warning services.

The primary purpose of a flood watch is to provide early advice to communities and the relevant emergency service organisations of the potential flood threat from a developing weather situation. Typically, a flood watch is issued 1 to 4 days before an anticipated flood event depending on the confidence in rainfall forecasts.

Flood watches will be communicated by the Bureau using the dissemination methods detailed in Section 1.3.7.

1.3.6 Issue flood warnings

In general, flood warnings are issued based on the following criteria:

- The river level of at least one forecast location (listed in Schedule 2a) is expected to reach and or exceed or has exceeded the minor flood level;
- The flood class levels or trigger heights defined at forecast locations are expected to be exceeded (refer to Schedule 2a);
- The flood class levels defined at information locations are exceeded (refer to Schedule 3).
- In Victoria, the Bureau will also issue flood warnings on receipt of predictions from storage operators, for forecast locations listed in Schedule 2b

The specific initiating criteria, if any, for each flood warning product are listed in Schedule 10.

Flood warnings may include either qualitative or quantitative predictions at forecast locations or a statement about future flooding in more generalised terms as outlined in Table 2.

The type of prediction included is commensurate with user requirements, the availability of real time rainfall and river level data, and the capability of available flood prediction systems.

A flood warning may contain generalised, quantitative and qualitative predictions and typically start with more generalised information and become more specific as data becomes available as the event develops and progresses.

Quantitative predictions include expected flood class (minor, moderate or major) with more specific information on the height and time of water levels at the forecast locations identified in Schedule 2a.

A quantitative prediction can be a specific level or a range of levels, and has detailed timing down to blocks of a minimum of 3-6 hours. Quantitative predictions are based on all available information at the time of warning issue.

The target lead time of the river height prediction for each forecast location where quantitative predictions are provided is given in Schedule 2a. For an example of a quantitative prediction refer to Table 2.

For the Bureau to be able to provide a quantitative prediction at a location, it is essential to have a suitable network of rainfall and river level sites upstream with data coming in real time, sufficient historical data to calibrate the flood forecasting model, a reliable rating table and documented flood impacts and flood classifications.

Qualitative predictions include expected flood class (minor, moderate or major) and timing of flooding at the forecast locations identified in Schedule 2a. The timing is indicated in blocks of six, 12 or 24 hours, using the terms such as early morning, afternoon or overnight.

Such predictions are based on all available information at that time and may include advice on the peak classification that is expected or has occurred at that location.

The target lead time for each forecast location where only qualitative predictions are provided are given in Schedule 2a. For an example of a qualitative prediction refer to Table 2.

For the Bureau to be able to provide a qualitative prediction at a location, it is essential to have at least some rainfall and river level sites upstream of the location with data coming in real time, at least some historical flood data to calibrate the flood forecasting model, a reasonable rating table and documented flood impacts and flood classifications.

Generalised predictions The Bureau may also issue flood warnings with more generalised predictions and information when there are not enough data to make specific predictions or in the developing stages of a flood. These warnings contain generalised statements advising that flooding is expected and may include forecast trend (rising or falling) (for examples refer to Table 2).

The typical target accuracy of a quantitative water level prediction is that 70% are within 0.3 or 0.6 metres of observed water level. Specific accuracy targets by location are defined in Schedule 2a.

Achievement of these targets is not possible in all floods or at all locations. In general, predictions of a flood peak are more accurate than “reach” or “exceed” predictions that are issued during the developing stages of a flood.

This is due to uncertainty of future rainfall rates and/or upstream floodplain behaviour that are used when making those predictions.

A list of the flood warnings issued in Victoria, along with the basin/river to which they apply is included in Schedule 9. Details about forecast locations in each basin/river are included in Schedule 2a and 2b.

Table 2. Prediction type description

Prediction type	Height prediction	Time of prediction	Example
Quantitative	Numerical prediction - Any Height - Peak Height Can refer to flood class	More specific, typically in blocks of 3 to 6 hours	The Ovens River at Wangaratta will exceed Minor Flood Level (11.9 metres) around 3pm Saturday evening.
Qualitative	Refers to flood class only (minor, moderate or major)	Range of times (6, 12 or 24 hour blocks)	Moderate flooding is expected in the Snowy River at McKillops Bridge during Saturday afternoon The Snowy River at McKillops Bridge is expected to peak above the Major Flood Level (8.0 metres) during Sunday evening
Generalised	No height prediction	Range of times (24 hour blocks)	Significant flooding is expected in the Genoa River catchments during Saturday with further rises possible due to forecast rainfall.

1.3.7 Communication of flood warnings and flood watches

Flood watches and warnings will be issued directly to a list of stakeholders with emergency management responsibilities. This list is maintained by the Bureau but is not detailed in this document. The direct dissemination methods supported include email, and internet protocols such as File Transfer Protocol (FTP).

The format of messaging in flood related products will conform to a nationally consistent standard determined by the Bureau, in consultation with the Flood Warning Consultative Committee.

Flood watches and warnings are also communicated by the Bureau via:

- **Radio**: Radio stations, particularly the ABC, broadcast flood warning information as part of their news bulletins, or whenever practicable. This form of broadcast may be covered in separate agreements between the Bureau and broadcasters.
- **Weather warning service**: Flood warning information is recorded on a contracted telephone information service. Calls to this service incur a fee-for-service charge.
- **Internet**: Flood watches and warnings are published on the Bureau's public web site and available by File Transfer Protocol (FTP) and Rich Site Summary (RSS) along with related rainfall and river level information (see 1.3.11).
- **Social Media**: The Bureau endeavours to make social media posts related to flood watches, flood warnings and relevant information, subject to operational constraints and in connection with other weather information. The Bureau website remains the main platform for the publishing of flood information.
- **Bureau App**: The Bureau's app has push notifications from which users can opt to receive Flood Watches and Flood Warnings.

Emergency management partners and media can also access flood level and warning information directly from the Bureau Flood Warning Centre and Bureau National Operations Centre, subject to operational constraints. The Bureau does not publish to the public the contact details of its operational centres.

1.3.8 Data networks, communications and storage

The services to be provided by the Bureau under this Service Level Specification depend on provision of data from networks of stations owned and operated by the Bureau and partner agencies. Permanent or temporary loss of real time data may necessitate a downgrading of the flood warning service from quantitative predictions to qualitative or generalised.

1.3.9 The Bureau contribution to this network of stations includes:

- the operation and maintenance of equipment at the sites which are fully owned and maintained by the Bureau as listed in Schedule 6.
- assisting with maintenance of equipment for other agencies at the sites listed in Schedule 7.
- operating and maintaining Bureau-owned equipment at sites where this equipment is co-located at a site owned by another agency Schedule 8.

Where the site is owned or operated by other parties, installation, maintenance and repairs of Bureau equipment will depend on adequate access being provided to the Bureau and any of its contractors. The Bureau will confirm access arrangements with relevant land owners before entering the premises. The Bureau also requires that the site operators provide timely advice regarding any possible faults or other issues affecting the performance of the data network.

In Victoria the majority of flood warning networks are operated through the Regional Water Monitoring Partnerships, of which there are three – the Gippsland, Northern and South West. Participants in the Regional Water Monitoring Partnerships agree to share the decision-making and costs of maintaining water monitoring networks in Victoria to support flood warning as well as other business needs of the partners. Contributions, including funding arrangements, are detailed in the Water Monitoring Project Agreements. The Water Monitoring Project Agreements are legally binding.

The flood forecasting and warning service for Victoria also depends on the provision of data from partner agency data networks.

The Water Act 2007 gives us the function to collect, hold, manage, interpretate and disseminate information about Australia's water resources, and the use and management of water in Australia.

The Water Regulations 2008 were created to help implement and enforce the Water Act and set out the rules and requirements for what data is provided to the Bureau, by who, how and when.

Current requirements, under the Regulations, are for named providers to provide the data they have in their custody, possession or control including Category 11-Water information for flood warning purposes. The regulations require the information hourly, but this is the minimum standard and it can be provided more frequently.

The Bureau will maintain the essential set of metadata describing the network of stations and related infrastructure regarding the Bureau’s component of the data network, along with metadata required to inform the data ingest process for partner agency related networks and sites .

The Bureau has developed special purpose software (Enviromon) for collecting, alarming, storing, on-forwarding and display of data from Event-Reporting Radio Telemetry Systems (ERRTS) (field equipment) based on Automated Local Evaluation in Real Time (ALERT) data protocol.

The Bureau will discontinue its software support for external Enviromon users in October 2026. It is important to note that Enviromon will not be switched off, and the application can continue to be used after this time, free of charge.

The Bureau has been engaging with external users since 2024 to support them through this transition. The Bureau will continue providing limited free of charge software support to external users with an Enviromon license until at least 30 June 2026 as specified in the relevant Flood Service Level Specifications (Schedule 5)

1.3.10 Operations

The Bureau will use reasonable endeavours to provide a 24 hours a day, seven days a week operational systems capability necessary to support flood warning operations. This will include on-line computer and data ingestion systems, along with appropriate communications infrastructure. This will be subject to event requirements and operational constraints. The Bureau will advise its key emergency management clients of any impact in services if it is unable to provide sufficient staff coverage to meet the service levels set out in this Service Level Specification (see also 4).

The Bureau will maintain an internal technical guide for each catchment where a warning service is provided. The technical guide documents and describes the forecast process for the particular catchment and includes flood intelligence information, flood history, contact details for partners with local knowledge and warning issue criteria.

The Bureau's operation of the flood warning service will be compliant with the fatigue management guidelines developed under the Bureau's Work Health and Safety Procedures that are consistent with APS requirements. Particular attention to fatigue management will be provided during the management of extreme events. The legislated requirement to comply with these guidelines applies to all APS personnel.

The Bureau will assist in meeting the needs of the Australian Government's National Situation Room. The Bureau will use reasonable endeavours to support and participate in relevant critical event briefings as resources permit.

1.3.11 Maintain systems to collect data and flood information

The Bureau will maintain the systems to ingest all data being gathered through the flood warning data network.

The river height and rainfall data received by the Bureau will be published as soon as practicable (the data are supplied at different frequencies and by various methods) upon receipt into Bureau operational systems. The data will be published in the form of tables, maps and plots and will also be included in warnings and alerting messages and used in modelling systems.

Data collected in Bureau systems will be available for use by the Bureau as it requires and for distribution to the public on suitable open source licence terms.

The Bureau will continue to collect and update the flood background information contained on its website. Maps and metadata are available on the National Flood Gauge Network | Australian Water Data Service.

1.3.12 Planning and liaison

The Bureau undertakes a range of routine planning, maintenance and liaison activities that support the Total Flood Warning System. This includes contributing to related flood risk management activities within the State or Territory impacting on, or related to flood warning along with the ongoing coordination and liaison activities essential to the smooth operation of the Total Flood Warning System.

1.3.13 Support for emergency management training and exercises

The Bureau will, within operational constraints, endeavour to support and participate in relevant disaster management activities outside of flood operational periods, including training exercises and flood response planning.

1.4 Level of service and performance reporting

Achievable levels of service provided by the Bureau are dependent on many factors including adequate access to Bureau equipment where located on sites owned by other agencies, data availability in near real time from Bureau and partner agencies, modelling and prediction capability, geomorphology of the catchment and meteorological considerations such as rainfall patterns.

If during a flood event the achievable service level is expected to be reduced, for any reason below the target level as stated in this Service Level Specification, the Bureau will inform the key emergency management clients in Victoria of the reduced service level via email and phone.

The Bureau's performance of service will be reviewed and reported on within the context of the Total Flood Warning System annually using a standard report performance structure based on the performance indicators and the service levels defined in Schedule 2a.

The annual performance of service report will be tabled at the last Flood Warning Consultative Committee meeting of the calendar year. This report will be published on the Bureau website.

Event based performance reports with more detailed technical information may also be produced for significant and high profile events.

1.4.1 Limitations of service

Performance of services provided under this document are subject to:

1. The availability of funds and human resources of the Bureau and its partner agencies and changes to organisational policies that may affect the terms and conditions of the Service Level Specification.
2. Circumstances beyond the control of the Bureau including where the performance is the responsibility of another entity.
3. The existence of a reliable and ongoing supply of quality real time rainfall, water level and flow data.
4. The reliable and ongoing availability of the computing and communication infrastructure required for the performance of the services.
5. Adequate communication between the Bureau and all relevant partners under this Service Level Specification and any other agreement relevant to it including on any faults or issues.

In Victoria there are a number of documents that describe the State's arrangements for flood warning and flood risk management. This Service Level Specification does not replace or reduce the value of these documents. The key documents are:

a) State Flood Emergency Plan February 2022 (Victoria State Emergency Services)
    a. Attachment – Management of Flooding Downstream of Dams (6 February 2013)
b) Victorian Floodplain Management Strategy 2016
c) Regional Water Monitoring Project Agreements for the:
    a. Northern Region
    b. Gippsland Region
    c. South West Region

1.5 Service Level Specification consultation, review and updating

The initial and annual process for acceptance of this Service Level Specification will be:

1. The Flood Warning Consultative Committee members will be provided with the draft or amended Service Level Specification in advance of a special or scheduled committee meeting.
2. The members of the Flood Warning Consultative Committee will distribute the draft or amended Service Level Specification within their organisations and provide feedback from their organisation at the committee meeting.

3. After consultation and discussion at the Flood Warning Consultative Committee meeting, the Bureau will update the Service Level Specification.
4. The Chair of the Flood Warning Consultative Committee (Bureau's Manager Hazard Preparedness and Response South or delegate) will accept and sign the document on behalf of the committee.
5. The General Manager Decision Support Services and the General Manager Environmental Prediction Services will sign the Service Level Specification on behalf of the CEO and Director of Meteorology.
6. The Bureau will then distribute the Service Level Specification to all members of the Flood Warning Consultative Committee and publish a copy on the Bureau website.

The schedules of this Service Level Specification will be reviewed annually and either updated following review, or when a significant change is made that impacts on the level of services described in this document. Updates to this document will be recorded in Schedule 11.

Any changes to the categorisation of a location into data, information or forecast location or to the level of services described in this document will be through a consultative process using agreed arrangements in Victoria and when required coordinated by the Flood Warning Consultative Committee.

1.6 Signature of parties

This Service Level Specification has been prepared by the Bureau of Meteorology in consultation with the Victorian Flood Warning Consultative Committee.

Approval from the relevant managers have been obtained on the dates shown below:

Chair of Victorian Flood Warning Consultative Committee, and
Manager Hazard Preparedness and Response South
Bureau of Meteorology

Date: 23/06/2026

General Manager Decision Support Services
Bureau of Meteorology

Date: 23/06/2026

General Manager Environmental Prediction Services
Bureau of Meteorology

Date: 23/06/2026

Schedule 1. Flood Warning Consultative Committee

The Victorian Flood Warning Consultative Committee was formed in late 1989. The Committee's role is to coordinate the development and operations of the State's flood forecasting and warning services. It is an advisory body and reports to the Bureau of Meteorology and participating state and local government agencies as required. The membership includes:

- Bureau of Meteorology (Chair/Secretariat)
- Department of Energy, Environment and Climate Action
- Victorian State Emergency Service
- Local Government – Municipal Association Victoria
- Catchment Management Authorities – rotating membership
- Rural Water Authorities – Goulburn-Murray Water; Southern Rural Water
- Melbourne Water
- Emergency Management Victoria
- Institute of Public Works Engineering Australasia (Victoria Division)
- Other State Government agencies (as required)

The nationally consistent Terms of Reference for Flood Warning Consultative Committees are:

1. Identify requirements and review requests for new and upgraded forecasting and warning services
2. Establish the priorities for the requirements that have been identified using risk based analyses of the Total Flood Warning System.
3. Review and provide feedback on the Service Level Specification for the Bureau's Flood Forecasting and Warning services on an annual basis
4. Coordinate the implementation of flood warning systems in accordance with appropriate standards.
5. Promote effective means of communication of flood warning information to the affected communities
6. Monitor and review the performance of flood forecasting and warning services.
7. Build awareness and promote the Total Flood Warning System concept.

The Bureau of Meteorology

Schedule 2a. Forecast locations and service levels

Column definitions:

Bureau number: Refers to the unique number assigned to a particular station by the Bureau

AWRC number: Refers to the unique number assigned to a particular station by the Australian Water Resources Council

Forecast location: Is the specific location that will be referred to in flood warnings (refer 1.3.1)

Station operated by: Refers to the owning and operating agency of the station. The Bureau may co-own stations. (refer Schedules 6 and 7)

Station type: Either manual (read by human) or automatic (consisting of either ERTS or telemetry gauges)

Flood classification: For definitions please refer to Appendix A.

Prediction type: The type of warning service that particular location can expect. (refer 1.3.6)

Target warning lead time: The minimum lead time that will be provided before the height or the flood class level given is exceeded (refer 1.3.6 & notes below)

Target peak accuracy: The error within which peak river level height is predicted (refer 1.3.6)

Priority: The impact a temporary or permanent loss of a site will have on service delivery and in meeting performance targets (refer 1.3.1)

Bureau number	AWRC Number	Forecast location	Station Operator	Station type	Flood classification (m)			Prediction type	Target warning lead time		70% of peak forecasts within	Priority
					Minor	Moderate	Major		Time	Trigger height (m)		
221 – East Gippsland Basin												
084128	221209	Chandlers Ck (East Branch)	Gippsland RWMP	Automatic	2.0	2.3	2.8	Qualitative	0-3 hrs	> 2.0	n/a	High
084127	221201	Weeragua (West Branch)	Gippsland RWMP	Automatic	3.0	3.5	4.0	Qualitative	0-3 hrs	> 3.0	n/a	High
584007	221210	The Gorge (Genoa R)	Gippsland RWMP	Automatic	1.9	2.2	4.0	Qualitative	3 hrs	> 1.9	n/a	High
222 – Snowy River Basin												
570020	222019	Bombala	Water NSW	Automatic	3.0	5.0	8.0	Qualitative	3 hrs	> 3.0	n/a	High
084126	222209	McKillops Bridge	Gippsland RWMP	Automatic	n/a	6.0	8.0	Qualitative	6 hrs	> 6.0	n/a	High
084109	222219	Basin Creek	Gippsland RWMP	Automatic	3.5	5.5	6.6	Qualitative	3 hrs	> 3.5	n/a	High
584020	222206	Buchan (Buchan R)	Gippsland RWMP	Automatic	3.7	4.9	5.3	Qualitative	6 hrs	> 3.7	n/a	High
584004	222200	Jarrahmond	Gippsland RWMP	Automatic	4.1	7.4	8.9	Quantitative	6 hrs	> 4.1	+/- 0.3 m	High
223 – Tambo River Basin												
584014	223205	D/S Ramrod Ck	Gippsland RWMP	Automatic	4.1	6.9	10.0	Qualitative	3 hrs	> 4.1	n/a	High
224 – Mitchell River Basin												
085270	224203	Glenaladale	Gippsland RWMP	Automatic	3.0	4.5	5.5	Quantitative	6 hrs	> 3.0	+/- 0.3 m	High
084146	224200	Bairnsdale	Gippsland RWMP	Automatic	5.6	6.5	6.8	Quantitative	9 hrs	> 5.6	+/- 0.3 m	High
225 – Thomson River Basin												
585025	225201	Stratford (Avon R)	Gippsland RWMP	Automatic	4.5	6.0	6.5	Quantitative	6 hrs	> 4.5	+/- 0.3 m	High
585004	225209	Licola (Macalister R)	Gippsland RWMP	Automatic	2.7	3.2	3.6	Qualitative	3 hrs	> 2.7	n/a	High
585236	225208	Cooper Ck	Southern Rural Water	Automatic	2.3	3.5	5.0	Qualitative	6 hrs	> 2.3	n/a	High

Bureau number	AWRC Number	Forecast location	Station Operator	Station type	Flood classification (m)			Prediction type	Target warning lead time		70% of peak forecasts within	Priority
					Minor	Moderate	Major		Time	Trigger height (m)		
225 – Thomson River Basin (cont.)												
585027	225212	Wandocka	Gippsland RWMP	Automatic	6.2	6.5	6.7	Quantitative	6 hrs	> 6.2	+/- 0.3 m	High
085272	225237	Sale Wharf	Gippsland RWMP	Automatic	2.4	3.0	4.0	Quantitative	6 hrs	> 2.4	+/- 0.3 m	High
226 – Latrobe River Basin												
585031	226228	Rosedale (Main Stream)	Gippsland RWMP	Automatic	4.0	4.8	5.5	Quantitative	9 hrs	> 4.0	+/- 0.3 m	High
585013	226023	Traralgon Town	Gippsland RWMP	Automatic	3.5	4.0	4.8	Quantitative	3 hrs	> 3.5	+/- 0.3 m	High
223, 224, 225 & 226 – Gippsland Lakes Basin												
585058	226605	Hollands Landing	Gippsland RWMP	Automatic	0.7	n/a	0.9	Quantitative	6 hrs	> 0.7	+/- 0.2 m	High
585059	226606	Loch Sport Marina	Gippsland RWMP	Automatic	0.9	n/a	1.4	Quantitative	6 hrs	> 0.9	+/- 0.2 m	High
584018	226607	Paynesville	Gippsland RWMP	Automatic	0.7	n/a	1.3	Quantitative	6 hrs	> 0.7	+/- 0.2 m	High
584021	226608	Metung Marina	Gippsland RWMP	Automatic	0.8	n/a	1.9	Quantitative	6 hrs	> 0.8	+/- 0.2 m	High
584019	226609	Bullock Island (Lakes Entrance)	Gippsland RWMP	Automatic	0.9	n/a	1.3	Quantitative	6 hrs	> 0.9	+/- 0.2 m	High
228 – Bunyip River Basin												
586071	228213	Bunyip River at Iona	Melbourne Water	Automatic	2.1	5.0	6.0	Quantitative	3 hrs	> 2.1	+/- 0.3 m	High
586209	228380	Bunyip River at Cora Lynn	Melbourne Water	Automatic	3.1	5.0	6.0	Qualitative	9 hrs	> 3.1	+/- 0.3 m	High
586084	228368	Dandenong Creek at Rowville	Melbourne Water	Automatic	4.6	5.0	5.5	Quantitative	3 hrs	> 4.6	+/- 0.3 m	High
229 – Yarra River Basin												
586801	229212	Yarra River at Millgrove	Melbourne Water	Automatic	2.0	2.5	3.0	Qualitative	3 hrs	> 2.0	+/- 0.3 m	High

Bureau number	AWRC Number	Forecast location	Station Operator	Station type	Flood classification (m)			Prediction type	Target warning lead time		70% of peak forecasts within	Priority
					Minor	Moderate	Major		Time	Trigger height (m)		
229 – Yarra River Basin (cont.)												
586064	229144	Watts River at Healesville	Melbourne Water	Automatic	2.8	3.2	4.0	Qualitative	0-3 hrs	> 2.8	+/- 0.3 m	High
586044	229653	Yarra River at Coldstream (Yarra Grange)	Melbourne Water	Automatic	4.0	5.1	6.1	Qualitative	9 hrs	> 5.1	+/- 0.3 m	High
586113	229206	Yarra River at Yarra Glen	Melbourne Water	Automatic	4.1	4.5	5.0	Quantitative	9 hrs	> 4.5	+/- 0.3 m	High
586053	229270	Yarra River at Christmas Hills	Melbourne Water	Automatic	3.0	6.0	7.0	Qualitative	6 hrs	> 6.0	+/- 0.3 m	High
086347	229200	Yarra River at Warrandyte	Melbourne Water	Automatic	3.0	4.5	6.5	Qualitative	6 hrs	> 4.5	+/- 0.3 m	High
586067	229618	Diamond Creek at Eltham	Melbourne Water	Automatic	6.0	7.0	7.5	Qualitative	0-3 hrs	> 7.0	+/- 0.3 m	High
586050	229142	Yarra River at Templestowe (Fitzsimons Lane)	Melbourne Water	Automatic	3.5	6.0	8.0	Quantitative	6 hrs	> 6.0	+/- 0.3 m	High
586171	229614	Plenty River at Lower Plenty	Melbourne Water	Automatic	5.0	6.6	7.2	Qualitative	0-3 hrs	> 6.6	+/- 0.3 m	High
586175	229135	Yarra River at Heidelberg (Banksia Street)	Melbourne Water	Automatic	6.0	8.3	9.2	Quantitative	3 hrs	> 6.0	+/- 0.3 m	High
586039	229143	Yarra River at Alphington (Rudder Grange)	Melbourne Water	Automatic	3.0	6.0	8.7	Quantitative	6 hrs	> 3.0	+/- 0.3 m	High
586012	229645	Merri Creek at Coburg (Bell St)	Melbourne Water	Automatic	2.9	3.4	4.8	Qualitative	0-3 hrs	> 3.4	+/- 0.3 m	High

Bureau number	AWRC Number	Forecast location	Station Operator	Station type	Flood classification (m)			Prediction type	Target warning lead time		70% of peak forecasts within	Priority
					Minor	Moderate	Major		Time	Trigger height (m)		
229 – Yarra River Basin (cont.)												
586080	229149	Merri Creek at Northcote (St Georges Rd)	Melbourne Water	Automatic	3.2	3.8	5.0	Qualitative	3 hrs	> 3.8	+/- 0.3 m	High
586177	229622	Yarra River at Abbottsford (Johnston Street)	Melbourne Water	Automatic	2.7	6.7	8.9	Qualitative	3 hrs	> 2.7	+/- 0.3 m	High
230 – Maribyrnong River Basin												
586178	230100	Deep Creek at Darraweit Guim	Melbourne Water	Automatic	5.5	6.1	6.5	Quantitative	3 hrs	> 5.5	+/- 0.3 m	High
586122	230105	Maribyrnong River at Keilor	South West RWMP	Automatic	3.5	5.4	6.1	Qualitative	6 hrs	> 3.5	+/- 0.3 m	High
587015	230106	Maribyrnong River at Maribyrnong	Melbourne Water	Automatic	1.7	2.3	2.9	Quantitative	9 hrs	> 1.7	+/- 0.3 m	High
231 – Werribee River Basin												
587017	231225	Werribee River at Ballan	Melbourne Water	Automatic	1.6	2.1	3.0	Generalised	N/A	N/A	N/A	High
587023	231200	Werribee River at Bacchus Marsh	South West RWMP	Automatic	4.4	5.2	5.6	Qualitative	0-3 hrs	> 5.2	+/- 0.3 m	High
587525	231213	Lerderderg River at O'Briens Crossing (DS Sardine Creek)	South West RWMP	Automatic	2.1	3.0	3.5	Qualitative	3 hrs	> 3.0	+/- 0.3 m	High
587022	231211	Lerderderg River US Goodman Creek	Melbourne Water	Automatic	3.3	3.8	4.0	Qualitative	0-3 hrs	> 3.3	+/- 0.3 m	High
587070	231237	Werribee River at Werribee (Cottrell St)	Melbourne Water	Automatic	2.7	4.5	5.4	Quantitative	6 hrs	> 2.7	+/- 0.3 m	High

Bureau number	AWRC Number	Forecast location	Station Operator	Station type	Flood classification (m)			Prediction type	Target warning lead time		70% of peak forecasts within	Priority
					Minor	Moderate	Major		Time	Trigger height (m)		
232 – Moorabool River Basin												
587028	232202	Batesford Bridge	South West RWMP	Automatic	2.7	4.0	4.9	Quantitative	6 hrs	> 2.7	+/- 0.3 m	High
233 – Barwon River Basin												
589001	233213	Shelford (Hwy Bridge)	South West RWMP	Automatic	6.0	7.0	8.0	Quantitative	6 hrs	> 6.0	+/- 0.3 m	High
587026	233217	Geelong	South West RWMP	Automatic	2.3	3.1	4.3	Quantitative	9 hrs	> 2.3	+/- 0.3 m	High
236 – Hopkins River Basin												
589007	236203	Skipton (Mt Emu Ck)	South West RWMP	Automatic	4.0	4.7	5.1	Quantitative	6 hrs	> 4.0	+/- 0.3 m	High
									12 hrs	> 4.7		
238 – Glenelg River Basin												
590002	238212	Casterton	South West RWMP	Automatic	3.8	5.2	6.0	Quantitative (peak only)	9 hrs	peak	+/- 0.3 m	High
401 – Upper Murray River Basin												
082106	401204	Tallandoon	Northern RWMP	Automatic	4.2	4.9	5.6	Qualitative	6 hrs	> 4.2	n/a	High
572004	401549	Bringenbrong	Water NSW	Automatic	3.0	3.4	n/a	Quantitative	3 hrs	> 3.0	+/- 0.3 m	High
072156	401201	Jingellic	Northern RWMP	Automatic	4.0	5.5	7.5	Quantitative	9 hrs	> 4.0	+/- 0.3 m	High
402 – Kiewa River Basin												
582011	402222	Kiewa (Main Stream)	Northern RWMP	Automatic	3.3	3.7	4.0	Qualitative	6 hrs	> 3.3	n/a	High
582013	402205	Bandiana	Northern RWMP	Automatic	2.8	3.1	3.3	Qualitative	3 hrs	> 2.8	n/a	High
403 – Ovens River Basin												
583148	403205	Bright	Northern RWMP	Automatic	3.0	3.6	4.3	Qualitative	3 hrs	> 3.0	n/a	High

Bureau number	AWRC Number	Forecast location	Station Operator	Station type	Flood classification (m)			Prediction type	Target warning lead time		70% of peak forecasts within	Priority
					Minor	Moderate	Major		Time	Trigger height (m)		
403 – Ovens River Basin (cont.)												
082112	403250	Eurobin (Ovens R)	Northern RWMP	Automatic	4.5	5.5	6.0	Quantitative	3 hrs	> 4.5	+/- 0.3 m	High
582014	403230	Rocky Point	Northern RWMP	Automatic	3.2	4.4	5.2	Quantitative	6 hrs	> 3.2	+/- 0.3 m	High
582004	403223	Docker Rd Bridge	Northern RWMP	Automatic	3.7	3.95	4.1	Quantitative	6 hrs	> 3.7	+/- 0.3 m	High
582002	403213	Greta South	Northern RWMP	Automatic	2.8	4.2	6.0	Qualitative	3 hrs	> 2.8	n/a	High
582033	403200	Wangaratta (Ovens R)	Northern RWMP	Automatic	11.9	12.4	12.7	Quantitative	9 hrs	> 11.9	+/- 0.3 m	High
404 – Broken River Basin												
581006	404203	Benalla (Broken R)	Northern RWMP	Automatic	2.5	3.7	4.5	Quantitative	6 hrs	> 2.5	+/- 0.3 m	High
581000	404216	Casey Weir	Northern RWMP	Automatic	2.1	2.6	3.0	Quantitative	6 hrs	> 2.1	+/- 0.3 m	High
581015	404222	Orrvale	Northern RWMP	Automatic	6.8	7.2	7.9	Quantitative	9 hrs	> 6.8	+/- 0.3 m	High
580018	404237	Nathalia (Broken Ck)	Northern RWMP	Automatic	1.5	2.5	2.9	Quantitative (peak only)	12 hrs	peak	+/- 0.3 m	High
405 – Goulburn River Basin												
088119	405209	Taggerty	Northern RWMP	Automatic	2.3	2.6	3.0	Qualitative	3 hrs	> 2.3	n/a	High
088126	405202	Seymour (Goulburn R)	Northern RWMP	Automatic	3.8	5.2	7.0	Quantitative	3 hrs	> 3.8	+/- 0.3 m	High
581001	405200	Murchison	Northern RWMP	Automatic	9.0	10.2	10.7	Quantitative	6 hrs	> 9.0	+/- 0.3 m	High
582017	405237	Euroa	Northern RWMP	Automatic	2.5	4.0	4.6	Quantitative	3 hrs	> 2.5	+/- 0.3 m	High
581016	405269	Kialla West (Seven Cks)	Northern RWMP	Automatic	4.5	5.0	6.6	Quantitative	6 hrs	> 4.5	+/- 0.3 m	High
081044	405204	Shepparton (Goulburn R)	Northern RWMP	Automatic	9.5	10.7	11.0	Quantitative	9 hrs	> 9.5	+/- 0.3 m	High
580000	405232	McCoys Bridge	Northern RWMP	Automatic	9.0	10.0	10.2	Quantitative	9 hrs	> 9.0	+/- 0.3 m	High

Bureau number	AWRC Number	Forecast location	Station Operator	Station type	Flood classification (m)			Prediction type	Target warning lead time		70% of peak forecasts within	Priority
					Minor	Moderate	Major		Time	Trigger height (m)		
406 – Campaspe River Basin												
581002	406201	Barnadown	Northern RWMP	Automatic	3.8	4.4	5.0	Qualitative	6 hrs	> 3.8	n/a	High
580011	406283	Rochester Town AHD	Northern RWMP	Automatic	113.0	114.0	114.5	Quantitative	9 hrs	> 113.0	+/- 0.3 m	High
407 – Loddon River Basin												
580002	407205	Appin South	Northern RWMP	Automatic	2.8	3.1	3.3	Quantitative	12 hrs	> 2.8	+/- 0.3 m	High
580001	407242	Kerang (MV Hwy Bridge) AHD	Northern RWMP	Manual / PALS	77.0	77.5	77.8	Quantitative (peak only)	12 hrs	peak	+/- 0.3 m	High
408 – Avoca River Basin												
80106	408219	Charlton Town	Northern RWMP	Automatic	4.0	5.9	7.5	Quantitative (peak only)	9 hrs	peak	+/- 0.3 m	High
577000	408203	Quambatook (Avoca R)	Northern RWMP	Automatic	2.0	2.2	2.4	Quantitative (peak only)	12 hrs	peak	+/- 0.3 m	High
415 – Wimmera River Basin												
579001	415201	Glenorchy	Northern RWMP	Automatic	4.0	4.5	4.8	Quantitative	6 hrs	> 4.0	+/- 0.3 m	High
579000	415200	Horsham (Walmer)	Northern RWMP	Automatic	2.8	3.1	3.6	Quantitative	9 hrs	> 2.8	+/- 0.3 m	High
578004	415256	U/S Dimboola	Northern RWMP	Automatic	5.3	5.7	6.0	Quantitative	12 hrs	> 5.3	+/- 0.3 m	High
578007	415290	Donald Town (Richardson River)	Northern RWMP	Automatic	2.2	2.5	4.0	Qualitative	24 hrs	> 2.2	+/- 0.3 m	High
409 / 414 – Murray Basin												
572000	409001	Albury *	Water NSW	Automatic	4.3	4.9	5.5	Quantitative	12 hrs	> 5.5	+/- 0.3 m	High
582003	409002	Corowa *	Water NSW	Automatic	4.6	5.9	8.6	Quantitative	24 hrs	> 6.0	+/- 0.3 m	High
074246	409025	Yarrawonga D/S *	Water NSW	Automatic	6.4	6.7	7.8	Quantitative	24 hrs	> 6.4	+/- 0.3 m	High
574004	409202	Tocumwal *	Northern RWMP	Automatic	6.4	6.7	7.3	Quantitative	24 hrs	> 6.4	+/- 0.3 m	High

Bureau number	AWRC Number	Forecast location	Station Operator	Station type	Flood classification (m)			Prediction type	Target warning lead time		70% of peak forecasts within	Priority
					Minor	Moderate	Major		Time	Trigger height (m)		
409 / 414 – Murray Basin (cont.)												
574000	409200	Echuca Wharf /Moama AHD *	Northern RWMP	Automatic	93.5	93.9	94.4	Quantitative	24 hrs	> 93.5	+/- 0.3 m	High
574003	409207	Torrumbarry Weir *	Northern RWMP	Automatic	7.3	7.6	7.8	Quantitative	24 hrs	> 7.3	+/- 0.3 m	High
575000	409005	Barham *	Water NSW	Automatic	5.5	5.8	6.1	Quantitative	24 hrs	> 5.5	+/- 0.3 m	High
076112	409204	Swan Hill *	Northern RWMP	Automatic	4.5	4.6	4.7	Quantitative	24 hrs	> 4.5	+/- 0.3 m	High
574010	409003	Deniliquin *	Water NSW	Automatic	4.6	7.2	9.4	Quantitative	24 hrs	> 4.6	+/- 0.3 m	High
575001	409014	Moulamein *	Water NSW	Automatic	4.6	5.2	6.1	Quantitative	24 hrs	> 4.6	+/- 0.3 m	High
574024	409023	Stevens Weir *	Water NSW	Automatic	5.5	5.8	6.6	Quantitative	24 hrs	> 5.5	+/- 0.3 m	High
076120	414200	Wakool Junction *	Northern RWMP	Automatic	8.8	10.5	11.5	Quantitative	24 hrs	> 8.8	+/- 0.3 m	High
076135	414201	Boundary Bend *	Northern RWMP	Automatic	8.0	8.5	9.0	Quantitative	24 hrs	> 8.0	+/- 0.3 m	High
049115	414203	Euston Weir *	Northern RWMP	Automatic	9.1	9.8	10.3	Quantitative	24 hrs	> 9.1	+/- 0.3 m	High
76124	414210	Mildura HG AHD	Murray Darling Basin Authority	Manual	36.0	37.5	38.5	Quantitative	24 hrs	> 36.0	+/- 0.3 m	High
047100	425010	Wentworth Lock 10 *	Water NSW	Automatic	7.3	7.9	9.1	Quantitative	24 hrs	> 7.3	+/- 0.3 m	High

Notes:

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- Gippsland RWMP: Gippsland Regional Water Monitoring Partnership
- South West RWMP: South West Regional Water Monitoring Partnership
- Northern RWMP: Northern Regional Water Monitoring Partnership
- * predictions provided by the NSW flood forecasting and warning team of the Bureau

- The target warning lead time specified in the table is the minimum lead time that will be provided. Wherever possible, and particularly where confidence is high with regards to the onset of flooding, more lead time will be given. The Bureau will also give due consideration to the time of day in issuing warnings.

Schedule 2b. Forecast locations at tail water gauges or immediately downstream of storages where predictions are provided by storage operators

Bureau number	AWRC Number	Forecast location	Station Operator	Station type	Flood classification (m)			Priority
					Minor	Moderate	Major	
225 – Thomson River Basin								
585235	225204	Lake Glenmaggie D/S	Southern Rural Water	Automatic	2.6* 7500 ML/d	4.3* 22000 ML/d	5.3* 35000 ML/d	High
585022	225231	U/S Cowwarr Weir	Southern Rural Water	Automatic	3.7	4.5	5.5	High
226 – Latrobe River Basin								
585245	226005	Thoms Bridge	Southern Rural Water	Automatic	4.0	5.0	6.5	High
230 – Maribyrnong River Basin								
587006	230103	Jacksons Creek at Rosslynne Reservoir (HG)	Southern Rural Water	Automatic	51.4	51.7	52.1	High
231 – Werribee River Basin								
087040	231205	Werribee River at Melton Reservoir (TW)	Southern Rural Water	Automatic	1.5* 4000 ML/d	5.1* 35000 ML/d	6.4* 50000 ML/d	High
401 – Upper Murray River Basin								
572037	n/a	Khancoban Pondage	Snowy Hydro	Automatic	114 m3/s	n/a	n/a	High
403 – Ovens River Basin								
583002	403228	Lake William Hovell D/S	Goulburn-Murray Water	Automatic	1.8	n/a	n/a	High
583007	403220	Lake Buffalo D/S	Goulburn-Murray Water	Automatic	3.2	5.0	6.3	High
405 – Goulburn River Basin								
588125	405203	Lake Eildon D/S	Goulburn-Murray Water	Automatic	3.0	4.0	5.0	High
406 – Campaspe River Basin								

Bureau number	AWRC Number	Forecast location	Station Operator	Station type	Flood classification (m)			Priority
					Minor	Moderate	Major	
581007	406207	Lake Eppalock D/S AHD	Goulburn-Murray Water	Automatic	158.4	160.4	162.4	High
407 – Loddon River Basin								
588000	407210	Cairn Curran Res D/S	Goulburn-Murray Water	Automatic	2.0	3.5	4.0	High
581004	407203	Laanecoorie Res D/S	Goulburn-Murray Water	Automatic	1.5	3.0	5.5	High

Notes:

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- All levels indicate flooding in the local reaches of the stream.
- AHD - Australian Height Datum. See Geoscience Australia for further information.
- * In cases where flood class levels are expressed in both flows and levels (e.g. Lake Glenmaggie D/S), the flows are the point of truth and will be used to issue flood warnings for that site. The levels are approximate and will change from time to time depending on the rating relationship between flows and levels at the site.

Schedule 3. Information Locations with flood class levels defined

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Flood classification (m)			Priority
					Minor	Moderate	Major	
224 – Mitchell River Basin								
084118	224201	Waterford	Gippsland RWMP	Automatic	3.5	4.5	6.5	High
225 – Thomson River Basin								
085276	225224	The Channel	Gippsland RWMP	Automatic	5.0	6.9	7.5	High
226 – Latrobe River Basin								
585030	226204	Willow Grove	Gippsland RWMP	Automatic	4.1	5.5	n/a	High
585247	226209	Darnum	Gippsland RWMP	Automatic	3.5	4.3	4.6	High
085266	226226	Tanjil Junction	Gippsland RWMP	Automatic	2.0	2.5	3.5	High
585029	226216	Tanjil South	Gippsland RWMP	Automatic	2.5	3.0	3.5	High
585017	226407	Boolarra	Gippsland RWMP	Automatic	2.6	3.5	n/a	High
233 – Barwon River Basin								
089104	233215	Mt Mercer	South West RWMP	Automatic	2.0	3.0	4.0	High
590000	233224	Ricketts Marsh	South West RWMP	Automatic	3.0	6.0	6.7	High
087162	233200	Pollocksford	South West RWMP	Automatic	3.5	4.5	6.5	High
238 – Glenelg River Basin								
090142	238211	Dergholm	South West RWMP	Automatic	4.0	4.8	5.1	High
401 – Upper Murray River Basin								
583005	401203	Hinnomunjie	Northern RWMP	Automatic	3.6	3.8	4.0	High
582010	401211	Colemans	Northern RWMP	Automatic	3.4	4.2	6.4	High
582022	401220	McCallums	Northern RWMP	Automatic	1.6	2.0	2.3	High
582015	401012	Biggara	Water NSW	Automatic	2.0	2.6	3.0	High

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Flood classification (m)			Priority
					Minor	Moderate	Major	
402 – Kiewa River Basin								
582012	402203	Mongans Bridge	Northern RWMP	Automatic	2.4	3.5	4.5	High
403 – Ovens River Basin								
583003	403233	Harris Lane	Northern RWMP	Automatic	2.8	3.5	4.2	High
082105	403227	Cheshunt	Northern RWMP	Automatic	1.8	2.3	2.6	High
580019	404238	Walshs Bridge	Northern RWMP	Automatic	2.0	3.0	3.4	High
405 – Goulburn River Basin								
583151	405219	Dohertys	Northern RWMP	Automatic	2.0	3.5	6.0	High
588127	405214	Tonga Bridge	Northern RWMP	Automatic	3.0	4.0	5.0	High
088125	405217	Devlins Bridge	Northern RWMP	Automatic	1.8	2.3	2.8	High
588020	405325	Yea GV Water PS (Yea R)	Northern RWMP	Automatic	2.4	2.7	3.1	High
588129	405231	Flowerdale	Northern RWMP	Automatic	2.0	2.5	3.0	High
588007	405201	Trawool	Northern RWMP	Automatic	4.0	5.6	7.5	High
588128	405228	Tarcombe Rd	Northern RWMP	Automatic	2.0	2.8	3.6	High
588126	405212	Tallarook	Northern RWMP	Automatic	3.0	3.5	4.5	High
082151	405306	Strathbogie	Northern RWMP	Automatic	1.5	2.2	3.0	High
082150	405307	Galls Gap Rd	Northern RWMP	Automatic	2.2	3.0	4.0	High
082149	405308	Telfords Bridge	Northern RWMP	Automatic	1.2	1.8	2.4	High
406 – Campaspe River Basin								
588006	406213	Redesdale (Campaspe R)	Northern RWMP	Automatic	5.3	n/a	n/a	High
581008	406218	Campaspe Weir HG AHD	Northern RWMP	Automatic	121.2	121.4	121.6	High
580010	406202C	Rochester Syphon	Northern RWMP	Automatic	8.0	8.8	9.1	High
580014	406265	Echuca (Campaspe R) AHD	Northern RWMP	Manual	92.8	94.4	95.7	High

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Flood classification (m)			Priority
					Minor	Moderate	Major	
407 – Loddon River Basin								
588004	407215	Newstead	Northern RWMP	Automatic	3.0	4.5	5.6	High
581012	407211	Bet Bet	Northern RWMP	Automatic	4.0	5.0	6.0	High
580009	407224	Loddon Weir D/S	Northern RWMP	Automatic	3.3	6.0	7.0	High
408 – Avoca River Basin								
578000	408200	Yawong Weir (Coonooer)	Northern RWMP	Automatic	3.0	5.0	5.3	High
578001	408212	Charlton D/S	Northern RWMP	Automatic	3.5	5.0	7.0	High
415 – Wimmera River Basin								
579013	415261	Quantong Bridge	Northern RWMP	Automatic	5.7	7.0	7.4	High
579018	415241	Murtoa (Yarriambiack Ck)	Northern RWMP	Automatic	1.8	2.0	2.1	High

Notes:

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- Gippsland RWMP: Gippsland Regional Water Monitoring Partnership
- South West RWMP: South West Regional Water Monitoring Partnership
- Northern RWMP: Northern Regional Water Monitoring Partnership

Schedule 4. River Data Locations

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
221 – East Gippsland Basin					
584029	221224	U/S Cann River Offtake (Cann R)	Gippsland RWMP	Automatic	Low
584030	221202	Genoa R at Wangarabell	Gippsland RWMP	Automatic	Low
584026	221212	Princes Hwy (Bemm R)	Gippsland RWMP	Automatic	Low
584028	221225	U/S of Pumphouse (Bemm R)	Gippsland RWMP	Automatic	Low
222 – Snowy River Basin					
071019	222026	Dalgety Weir	Water NSW	Automatic	Medium
570056	222017	The Hut	Water NSW	Automatic	Low
570018	222004	Wellesley (Rowes)	Water NSW	Automatic	Medium
070309	222008	Quidong	Water NSW	Automatic	Medium
070008	222013	Burnt Hut Crossing	Water NSW	Automatic	High
584003	222213	Suggan Buggan	Gippsland RWMP	Automatic	High
584027	222202	Sardine Ck (Brodribb R)	Gippsland RWMP	Automatic	Low
584011	222201	Orbost (Snowy R)	Gippsland RWMP	Automatic	High
223 – Tambo River Basin					
584006	223202	Swifts Ck (Tambo R)	Gippsland RWMP	Automatic	Low
584022	223209	Battens Landing	Gippsland RWMP	Automatic	High
584023	223217	Pump House (Nicholson R)	Gippsland RWMP	Automatic	High
584008	223212	D/S Wilkinson Ck	Gippsland RWMP	Automatic	Low
224 – Mitchell River Basin					
585033	224206	Crooked River	Gippsland RWMP	Automatic	Medium

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
584005	224213	Lower Dargo Rd	Gippsland RWMP	Automatic	Medium
584012	224219	Lindenow (Calulu)	Southern Rural Water	Automatic	Medium
084147	224217	Rosehill	Gippsland RWMP	Automatic	High
225 – Thomson River Basin					
585034	225218	Briagolong (Freestone Ck)	Gippsland RWMP	Automatic	Medium
585003	225219	Glencairn	Gippsland RWMP	Automatic	High
585032	225221	Stringybark Ck	Southern Rural Water	Automatic	Medium
585021	225230	The Gorge (Glenmaggie Ck)	Southern Rural Water	Automatic	High
585237	225225	Lake Glenmaggie HG	Southern Rural Water	Automatic	Low
585005	225213	Beardmore	Gippsland RWMP	Automatic	Medium
585020	225210	The Narrows	Gippsland RWMP	Automatic	Medium
585028	225236	Heyfield (Rainbow Ck)	Southern Rural Water	Automatic	Medium
585026	225200	Heyfield (Thomson R)	Southern Rural Water	Automatic	Medium
585038	225232	Bundalaguah	Gippsland RWMP	Automatic	High
226 – Latrobe River Basin					
585036	226205	Noojee (Latrobe R)	Gippsland RWMP	Automatic	Medium
585010	226402	Trafalgar East	Gippsland RWMP	Automatic	Medium
585079	226218	Thorpdale	Gippsland RWMP	Automatic	Medium
585192	226408	Yallourn (Morwell R)	Gippsland RWMP	Automatic	Low
585011	226021	Moe (Narracan Ck)	Gippsland RWMP	Automatic	Medium
585039	226227	Kilmany South	Gippsland RWMP	Automatic	High
585014	226415	Traralgon South	Gippsland RWMP	Automatic	High
585060	226224	Rosedale (Anabranch)	Gippsland RWMP	Automatic	Medium

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
085281	226410	Koornalla	Gippsland RWMP	Automatic	High
223, 224, 225 and 226 – Gippsland Lakes Basin					
584025	n/a	Lakes Entrance Breakwater	Gippsland Ports	Automatic	High
227 – South Gippsland Basin					
585047	227239	Stradbroke West	Gippsland RWMP	Automatic	Low
585046	227272	Merrimans Creek at Seaspray Pump Station	Gippsland RWMP	Automatic	Low
585066	227202	Tarwin River at Meeniyan	Gippsland RWMP	Automatic	Low
585067	227251	Tarra River at Tarra Weir Offtake	Gippsland RWMP	Automatic	Low
585018	227200A	Tarra River at Yarram	Gippsland RWMP	Automatic	Low
586271	227236A	Powlett R D/S Foster Creek Junction	Gippsland RWMP	Automatic	Low
586272	227245A	Little Bass R at Poowong	Gippsland RWMP	Automatic	Low
586269	227246B	Coalition Creek	Gippsland RWMP	Automatic	Low
586270	227248A	Bellview Creek U/S Bellview Reservoir	Gippsland RWMP	Automatic	Low
585072	227249B	Ruby Creek at Arawata	Gippsland RWMP	Automatic	Low
585073	227271B	Stony Creek at Meeniyan	Gippsland RWMP	Automatic	Low
586273	227273A	Powlett R Mouth Of Powlett Rd	Gippsland RWMP	Automatic	Low
228 - Bunyip River					
585043	228201	Tarago River at Drouin West	Melbourne Water	Automatic	High
586114	228203	Eumemmerring Creek at Dandenong South	Melbourne Water	Automatic	Medium
586092	228204	Dandenong Creek at Dandenong (Hammond Rd)	Melbourne Water	Automatic	Medium
585087	228206	Tarago River at Neerim (Elton Rd)	Melbourne Water	Automatic	Medium
586094	228207	Bunyip River at Tonimbuk (DS Headworks)	Melbourne Water	Automatic	High
586124	228209	Lang Lang River at Yannathan (Hamiltons Bridge)	Melbourne Water	Automatic	Low

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
586206	228210	Mile Creek at Keysborough (Dandenong West)	Melbourne Water	Automatic	Low
586081	228212	Bunyip River at Tonimbuk	Melbourne Water	Automatic	High
586274	228216	King Parrot Creek at Longwarry South	Melbourne Water	Automatic	Low
586082	228217	Toomuc Creek at Pakenham	Melbourne Water	Automatic	Low
585035	228219	Tarago River at Neerim South	Melbourne Water	Automatic	High
586275	228223	Lang Lang River at Athlone (US Drouin-Poowong Rd)	Melbourne Water	Automatic	Low
585044	228224	Tarago River at Tarago Reservoir (HG)	Melbourne Water	Automatic	Medium
586260	228225	Yallock Outfall at Cora Lynn (Murray Rd)	Melbourne Water	Automatic	High
586093	228228	Cardinia Creek at Cardinia	Melbourne Water	Automatic	Low
586258	228229	Monbulk Creek at Lysterfield	Melbourne Water	Automatic	Low
586096	228231	Hallam Contour Drain at Hampton Park	Melbourne Water	Automatic	Low
586276	228233	Eastern Contour Drain at Dandenong South (Fox Dr)	Melbourne Water	Automatic	Low
586257	228235	Eumemmerring Creek at Narre Warren North	Melbourne Water	Automatic	Low
585088	228238	Tarago River East Branch at Neerim	Melbourne Water	Automatic	Medium
585045	228255	Bunyip River at Longwarry North	Melbourne Water	Automatic	High
586277	228258	Cardinia Creek at Beaconsfield Upper (DS Cardinia Reservoir)	Melbourne Water	Automatic	Low
586187	228262	Heatherton Main Drain at Southern Rd RB (Mentone)	Melbourne Water	Automatic	Low
586278	228268	Beaconsfield Reservoir	Melbourne Water	Automatic	Low
585089	228271	Neerim Creek at Neerim	Melbourne Water	Automatic	Medium
586279	228292	Ferny Creek at Ferntree Gully	Melbourne Water	Automatic	Medium
586100	228351	Blind Creek at Wantirna South	Melbourne Water	Automatic	Medium
586179	228357	Dandenong Creek at Heathmont (Wantirna Rd)	Melbourne Water	Automatic	High

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
586099	228358	Dunlops Road Drain at Braeside	Melbourne Water	Automatic	Low
586088	228362	Mile Creek at Springvale West	Melbourne Water	Automatic	Low
586130	228363	Deep Creek at Pakenham (Princess Highway)	Melbourne Water	Automatic	Low
586245	228364	Kennedy Creek at Pakenham (Kennedy Road)	Melbourne Water	Automatic	Low
586097	228365	Gumscrub Creek at Officer (Princess Highway)	Melbourne Water	Automatic	Low
586085	228366	Blind Creek at Knox RB	Melbourne Water	Automatic	Low
586095	228369	Bungalook Creek at Fussel Rd RB (Montrose)	Melbourne Water	Automatic	Low
586087	228371	Eel Race Drain at Riviera Street Culverts	Melbourne Water	Automatic	Low
586250	228372	Kananook Creek at Seaford	Melbourne Water	Automatic	Low
586086	228373	Dandenong Creek at Liverpool Rd RB (The Basin)	Melbourne Water	Automatic	Low
586098	228378	Skye Rd Retarding Basin (Frankston North)	Melbourne Water	Automatic	Low
586207	228381	Dandenong Creek at Keysborough (Greens Road)	Melbourne Water	Automatic	Low
586090	228382	Cardinia Creek at Officer South	Melbourne Water	Automatic	Low
586204	228383	Patterson River at Whalers Cove	Melbourne Water	Automatic	Medium
586218	228393	Corhanwarrabul Creek at Scoresby (Stud Rd)	Melbourne Water	Automatic	Medium
586198	228395	Bunyip River at Koo Wee Rup	Melbourne Water	Automatic	Medium
586280	228397	Port Phillip Bay Tide Gauge at Mornington Pier	Melbourne Water	Automatic	Low
586281	228399	Western Port Tide Gauge at Evans Inlet Tooradin	Melbourne Water	Automatic	Low
586289	228404	Old Joes Creek at Army Rd RB (Boronia)	Melbourne Water	Automatic	Low
586290	228405	Troups Ck East Branch at Prospect Hill RB (Narre Warren North)	Melbourne Water	Automatic	Low
586292	228409	Lakewood RB at Knoxfield	Melbourne Water	Automatic	Low
586293	228410	Mile Creek RB at Mulgrave	Melbourne Water	Automatic	Low

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
586190	228603	Clayton South Drain at Clayton	Melbourne Water	Automatic	Low
586294	228718	Brandon Park Drive at Wheelers Hill	Melbourne Water	Automatic	Low
586287	DRB005	Banyan RB at Carrum Downs (Luscombe Ave)	Melbourne Water	Automatic	Low
586288	DRB062	Thompsons Rd RB (Cranbourne)	Melbourne Water	Automatic	Low
229 - Yarra River					
586304	229102	Yarra River at Upper Yarra Reservoir (HG)	Melbourne Water	Automatic	High
586242	229103	Yarra River DS Doctors Ck	Melbourne Water	Automatic	High
586056	229109	Starvation Creek	Melbourne Water	Automatic	Low
586102	229111	O'Shannassy River at O'Shannassy Reservoir (HG)	Melbourne Water	Automatic	Medium
586024	229130	Watts River at Maroondah Reservoir (HG)	Melbourne Water	Automatic	High
586243	229133	Grace Burn Ck DS Diversion Weir	Melbourne Water	Automatic	High
586305	229133	Grace Burn Aqueduct	Melbourne Water	Automatic	Medium
586078	229214	Little Yarra River at Yarra Junction	Melbourne Water	Automatic	High
586215	229215	Woori Yallock Creek at Woori Yallock	Melbourne Water	Automatic	High
586308	229220	Don River at Don Valley (Dalry Rd)	Melbourne Water	Automatic	Medium
586309	229224	Hoddles Creek at Launching Place	Melbourne Water	Automatic	Medium
586191	229229	Koonung Creek at Bulleen	Melbourne Water	Automatic	Medium
586310	229245	Pauls Creek at Tarrawarra	Melbourne Water	Automatic	Medium
586311	229246	Steels Creek at Yarra Glen (Gulf Road)	Melbourne Water	Automatic	Medium
586312	229247	Stringybark Creek at Yering (St Huberts Rd)	Melbourne Water	Automatic	High
586313	229248	Cockatoo Creek at Nangana (Tschampions Rd)	Melbourne Water	Automatic	Medium
586220	229249	Brushy Creek at Mooroolbark	Melbourne Water	Automatic	Medium
586314	229257	Merri Creek at Craigieburn East (Craigieburn Rd)	Melbourne Water	Automatic	High

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
586315	229258	Olinda Creek at Yering (McIntyre Lane)	Melbourne Water	Automatic	High
586316	229263	Yarra River US Thomson-Yarra Tunnel (Rd 21)	Melbourne Water	Automatic	High
586317	229264	Watts River US Maroondah Reservoir	Melbourne Water	Automatic	Low
586152	229272	Arthurs Creek at Nutfield (Chapel Lane)	Melbourne Water	Automatic	Medium
586318	229277	Donnellys Creek at Donnellys Weir	Melbourne Water	Automatic	Medium
586319	229290	Dixons Creek at Melba HWY	Melbourne Water	Automatic	Medium
586320	229400	Plenty River at Toorrourong Reservoir (HG)	Melbourne Water	Automatic	High
586321	229401	Stringybark Creek at Mt Evelyn (Clegg Rd)	Melbourne Water	Automatic	Medium
586167	229402	Merlynston Creek at Fawkner Cemetery	Melbourne Water	Automatic	Medium
586214	229403	Darebin Creek at Ivanhoe (Bell St)	Melbourne Water	Automatic	Medium
586241	229404	Yarra River at Warburton Highway	Melbourne Water	Automatic	High
586101	229406	Yan Yean Reservoir (HG)	Melbourne Water	Automatic	Medium
586025	229423	O'Shannassy River at Diversion Weir	Melbourne Water	Automatic	High
586343	229426	Merri Creek at Beveridge	Melbourne Water	Automatic	Medium
586030	229603	Merri Creek at Somerton (Cooper St)	Melbourne Water	Automatic	High
586051	229607	Sugarloaf Reservoir	Melbourne Water	Automatic	Medium
586062	229608	Watsons Creek at Kangaroo Ground South	Melbourne Water	Automatic	High
586213	229610	Edgars Creek at Edwardes Lake	Melbourne Water	Automatic	Medium
586172	229612	Darebin Creek at Bundoora	Melbourne Water	Automatic	Medium
586148	229613	Darebin Creek at Epping	Melbourne Water	Automatic	High
586212	229615	Plenty River at Greensborough	Melbourne Water	Automatic	High
586149	229616	Plenty River at Mernda	Melbourne Water	Automatic	High
586322	229617	Plenty River at Whittlesea (Evelyn Street)	Melbourne Water	Automatic	Medium

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
586151	229619	Diamond Creek at Hurstbridge	Melbourne Water	Automatic	High
586047	229620	Arthurs Creek at Arthurs Creek	Melbourne Water	Automatic	High
586153	229621	Yarra River at Burnley	Melbourne Water	Automatic	Low
586052	229624	Gardiners Creek at Gardiner	Melbourne Water	Automatic	Low
586192	229625	Gardiners Creek at Ashwood	Melbourne Water	Automatic	Low
586211	229627	Merri Creek at Craigieburn	Melbourne Water	Automatic	High
586323	229628	Merlynston Creek at Dallas	Melbourne Water	Automatic	Medium
586195	229635	Gardiners Creek at Lake Rd RB (Blackburn)	Melbourne Water	Automatic	Low
586162	229636	Gardiners Creek at Kinkora Rd RB (Blackburn North)	Melbourne Water	Automatic	Low
586157	229637	Gardiners Creek at Middleborough Rd RB (Box Hill)	Melbourne Water	Automatic	Low
586159	229638	Eley Road East Drain at Burwood East	Melbourne Water	Automatic	Low
586194	229639	Scotchmans Creek at Waverley Rd RB (Mt Waverley)	Melbourne Water	Automatic	Low
586160	229640	Scotchmans Creek at Huntingdale Rd RB (Mt Waverley)	Melbourne Water	Automatic	Low
586324	229643	Moonee Ponds Creek at Flemington (US Mt Alexander Rd)	Melbourne Water	Automatic	Medium
586185	229648	Mullum Mullum Creek at Doncaster East	Melbourne Water	Automatic	Medium
586325	229649	Thomson-Yarra Tunnel Outlet	Melbourne Water	Automatic	High
586326	229650	Aldermans Creek at Road 32	Melbourne Water	Automatic	Medium
586327	229652	O'Shannassy River US Reservoir	Melbourne Water	Automatic	Medium
586328	229658	Clear Creek US Road 31	Melbourne Water	Automatic	Medium
586181	229660	Elsternwick Main Drain at Elsternwick	Melbourne Water	Automatic	Low
586329	229661	Walshes Creek US Road 1	Melbourne Water	Automatic	Medium
586246	229663	Yarra River at Southbank	Melbourne Water	Automatic	Low

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
586200	229665	Moonee Ponds Creek at Jacana RB	Melbourne Water	Automatic	Medium
586166	229670	Port Phillip Bay at St Kilda Marina	Melbourne Water	Automatic	Low
586221	229672	Olinda Creek at Lillydale Lake	Melbourne Water	Automatic	Low
586330	229672	Olinda Creek DS Lillydale Lake	Melbourne Water	Automatic	Medium
586331	229677	Shepherd Creek at Nangana	Melbourne Water	Automatic	Medium
586332	229678	McCrae Creek at Yellingbo	Melbourne Water	Automatic	Medium
586333	229679	Woori Yallock Creek at Yellingbo (Parslows Rd)	Melbourne Water	Automatic	High
586334	229681	Wandin Yallock Creek at Seville East (Chandler Rd)	Melbourne Water	Automatic	High
586216	229687	Yarra River at Hawthorn	Melbourne Water	Automatic	Low
586254	229689	Clearwater Channel DS Toorrourong Reservoir	Melbourne Water	Automatic	Medium
586202	229690	Olinda Creek at Mt Evelyn	Melbourne Water	Automatic	Medium
586335	229694	Woori Yallock Creek at Monbulk	Melbourne Water	Automatic	Medium
586336	229714	Clearwater Channel US Yan Yean Reservoir	Melbourne Water	Automatic	Medium
586337	229724	Yarra River at Deep Rock (Yarra Bend Park)	Melbourne Water	Automatic	Medium
230 - Maribyrnong River					
586122	230105	Maribyrnong River at Keilor	South West RWMP	Automatic	High
587055	230107	Deep Creek at Konagaderra	Melbourne Water	Automatic	High
587052	230112	Stony Creek at Spotswood	Melbourne Water	Automatic	Low
586296	230117	Maribyrnong River at Kensington (Sims Street)	Melbourne Water	Automatic	Low
586224	230119	Deep Creek at Lancefield (Doggetts Bridge)	Melbourne Water	Automatic	High
587080	230120	Stony Creek at Yarraville (Benbow St)	Melbourne Water	Automatic	Low
587116	230202	Jacksons Creek at Sunbury	South West RWMP	Automatic	High
587081	230204	Riddells Creek at Riddells Creek	South West RWMP	Automatic	Medium

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
587024	230205	Deep Creek at Bulla	South West RWMP	Automatic	High
587029	230206	Jacksons Creek at Gisborne	South West RWMP	Automatic	Medium
587532	230210	Jacksons Creek at Bullengarook	Melbourne Water	Automatic	Low
587082	230211	Bolinda Creek at Clarkefield	Melbourne Water	Automatic	Medium
587530	230220	Jacksons Creek at Clarkfield	South West RWMP	Automatic	Medium
587027	230233	Jacksons Creek at Gisborne Treatment Plant	South West RWMP	Automatic	Medium
586132	230236	Steele Creek at Keilor East (Rose Hill Rd)	Melbourne Water	Automatic	Medium
587083	230237	Maribyrnong River at Keilor North (DS Jacksons Ck)	Melbourne Water	Automatic	High
587528	230246	Deep Creek at Romsey	Melbourne Water	Automatic	High
586297	230232	Deep Creek at Bolinda (Kennedy Lane)	South West RWMP	Automatic	Medium
231 – Werribee River					
587001	231104	Kororoit Creek at Deer Park	Melbourne Water	Automatic	Low
587000	231105	Kororoit Creek at Rockbank	Melbourne Water	Automatic	Low
587130	231106	Kororoit Creek at Diggers Rest	Melbourne Water	Automatic	Low
587054	231107	Kororoit Creek at Brooklyn	Melbourne Water	Automatic	Low
587049	231110	Skeleton Creek at Hoppers Crossing	Melbourne Water	Automatic	Low
587023	231200	Werribee River at Bacchus Marsh	South West RWMP	Automatic	Medium
587533	231203	Pykes Creek DS Pykes Creek Reservoir	Southern Rural Water	Automatic	Medium
587091	231204	Werribee River at Wyndham Vale	South West RWMP	Automatic	Medium
587092	231208	Werribee River at Cobbledicks (Ford Rd)	Melbourne Water	Automatic	Medium
587525	231213	Lerderderg River at O'Briens Crossing (DS Sardine Creek)	South West RWMP	Automatic	Medium
587093	231217	Korjamnunnip Creek at Greendale	Melbourne Water	Automatic	Medium

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
587526	231221	Werribee River at Melton Reservoir (HG)	Southern Rural Water	Automatic	Medium
587073	231222	Pykes Creek at Pykes Creek Reservoir (HG)	Southern Rural Water	Automatic	Low
587074	231223	Pyrites Creek at Merrimu Reservoir (HG)	Melbourne Water	Automatic	Medium
587043	231231	Toolern Creek at Melton South	Melbourne Water	Automatic	High
587025	231232	Werribee River at Droomers	Melbourne Water	Automatic	Medium
587529	231236	Long Gully Creek at Blackwood	Melbourne Water	Automatic	Medium
587094	231245	Lollypop Creek at Werribee (Bulban Rd)	Melbourne Water	Automatic	High
587095	231246	Werribee River at Mount Cottrell (DS Toolern Ck)	Melbourne Water	Automatic	High
587096	231251	Parwan Creek at Maddingley	Melbourne Water	Automatic	Low
587097	231253	Werribee River at Ballan (Spencer Rd)	Melbourne Water	Automatic	High
587531	231262	Werribee River DS Melton Treatment Plant	Melbourne Water	Automatic	Low
232 – Moorabool River Basin					
087068	232210	Lal Lal	South West RWMP	Automatic	Low
087016	232204	Morrisons	South West RWMP	Automatic	Medium
587035	232802	Lara	Geelong City Council	Automatic	Low
233 – Barwon River Basin					
089084	233223	Warrambine	South West RWMP	Automatic	High
590006	233247	Kildean Lane	South West RWMP	Automatic	Medium
087109	233201	Winchelsea (Barwon R)	South West RWMP	Automatic	Medium
233 – Barwon River Basin (continued)					
589003	233218	Inverleigh	South West RWMP	Automatic	Medium
587068	233719	Moolap (Salt Works)	Geelong City Council	Automatic	Low
235 – Otway Coast					

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
590015	235203	Curdie (Curdies R)	South West RWMP	Automatic	Low
590014	235268	Peterborough (Curdies R)	South West RWMP	Automatic	Low
236 – Hopkins River Basin					
589008	236213	Mena Park	South West RWMP	Automatic	High
589011	236215	Lake Burrumbeet (Burrumbeet Ck)	South West RWMP	Automatic	Low
589010	236238	Guthries Bridge (Mt Emu Ck)	South West RWMP	Automatic	Medium
589009	236219	Ararat (Hopkins R)	South West RWMP	Automatic	Low
589006	236202	Wickliffe (Hopkins R)	South West RWMP	Automatic	Low
590012	236210	Framlingham	South West RWMP	Automatic	Low
590003	236205	Woodford	South West RWMP	Automatic	Low
237 – Portland River Basin					
590009	237200	Toolong	South West RWMP	Automatic	Low
590022	237208	Willatook	South West RWMP	Automatic	Low
590017	237221	Gipps St Bridge (Port Fairy)	South West RWMP	Automatic	Low
590004	237205	Homerton Bridge	South West RWMP	Automatic	Low
238 – Glenelg River Basin					
079108	238224	Fulham Bridge	South West RWMP	Automatic	Low
579028	238210	Harrow	South West RWMP	Automatic	Low
590013	238223	Wando Vale	South West RWMP	Automatic	Medium
590005	238202	Sandford	South West RWMP	Automatic	Low
401 – Upper Murray River Basin					
583004	401216	Joker Ck	Northern RWMP	Automatic	Low
582016	401217	Gibbo Park	Northern RWMP	Automatic	Low

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
582008	401224	Lake Dartmouth HG	Northern RWMP	Automatic	Low
582018	401210	Granite Flat	Northern RWMP	Automatic	Medium
582026	401230	Towong	Northern RWMP	Automatic	High
572024	401017	Yarramundi	Water NSW	Automatic	Low
572019	401007	Tumba2	Water NSW	Automatic	Low
572023	401009	Maragle	Water NSW	Automatic	Low
572022	401008	Tooma	Water NSW	Automatic	Low
572005	401014	Pinegrove	Water NSW	Automatic	High
572034	401016	The Square	Water NSW	Automatic	Low
401 – Upper Murray River Basin (continued)					
572035	401024	Bakers	Water NSW	Automatic	Low
582009	401208	Berringama	Northern RWMP	Automatic	Low
582028	401229	Cudgewa North	Northern RWMP	Automatic	High
572006	401013	Jingellic Ck	Water NSW	Automatic	Medium
402 – Kiewa River Basin					
582007	402220	Kiewa (Anabranch)	Northern RWMP	Automatic	Medium
582020	402204	Osbornes Flat	Northern RWMP	Automatic	Medium
403 – Ovens River Basin					
083001	403244	Harrietville (Ovens R)	Northern RWMP	Automatic	Medium
083058	403253	Upper Buckland	Northern RWMP	Automatic	Medium
082162	403214	Rosewhite	Northern RWMP	Automatic	Medium
083018	403222	Abbeyard	Northern RWMP	Automatic	Medium
582027	403210	Myrtleford	Northern RWMP	Automatic	Medium

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
583000	403217	Matong North (Rose R)	Northern RWMP	Automatic	Medium
583011	403218	Matong North (Dandongadale R)	Northern RWMP	Automatic	Medium
583009	403254	D/S Rose R Junction	Northern RWMP	Automatic	Medium
583150	403235	Lake Buffalo HG	Northern RWMP	Automatic	Medium
582005	403240	Edi	Northern RWMP	Automatic	High
082116	403226	Angleside	Northern RWMP	Automatic	High
082128	403224	Bobinawarrah	Northern RWMP	Automatic	Medium
582021	403241	Peechelba East	Northern RWMP	Automatic	Low
082108	403251	Glenrowan	Northern RWMP	Automatic	Low
404 – Broken River Basin					
583006	404229	D/S Bridge Ck	Northern RWMP	Automatic	Low
582000	404243	Back Ck Junction	Northern RWMP	Automatic	Medium
582023	404226	Broken Weir	Northern RWMP	Automatic	High
082155	404230	Wrightley	Northern RWMP	Automatic	Medium
582030	404231	Loombah Res HG	Northern RWMP	Automatic	Low
582001	404207	Kelfeera	Northern RWMP	Automatic	High
581019	404224	Gowangardie Weir	Northern RWMP	Automatic	Medium
581023	404204	Tungamah (Boosey Ck)	Northern RWMP	Automatic	Low
581033	404249	School Rd (Broken Ck)	Northern RWMP	Automatic	Medium
580017	404214	Katamatite (Broken Ck)	Northern RWMP	Automatic	Low
580021	404250	Larissa Rd (Broken Ck)	Northern RWMP	Automatic	High
580024	404251	Sellicks Rd (Nine Mile Ck)	Northern RWMP	Automatic	Medium
580022	404714	Katamatite East (Muckatah Ck)	Northern RWMP	Automatic	Low

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
580023	404713	Naring Hall Rd (Muckatah Ck)	Northern RWMP	Automatic	Low
580020	404248	Numurkah (Melville St)	Northern RWMP	Automatic	High
405 – Goulburn River Basin					
583014	405218	Gerrans Bridge	Northern RWMP	Automatic	Medium
588009	405241	Rubicon	Northern RWMP	Automatic	Low
588002	405274	Yarck	Northern RWMP	Automatic	Low
088078	405310	Ghin Ghin	Northern RWMP	Automatic	Medium
088064	405238	Pyalong	Northern RWMP	Automatic	Low
588001	405240	Ash Bridge	Northern RWMP	Automatic	Medium
588021	405291	Whiteheads Ck	Northern RWMP	Automatic	Medium
588008	405248	Graytown	Northern RWMP	Automatic	Medium
581013	405259	Goulburn Weir HG	Northern RWMP	Automatic	Low
581009	405253	Goulburn Weir D/S	Northern RWMP	Automatic	High
581024	405704	East Goulburn Main Channel	Northern RWMP	Automatic	Low
581025	405701	Cattanach Canal	Northern RWMP	Automatic	Low
581026	405700	Stuart Murray Canal	Northern RWMP	Automatic	Low
581014	405247	Tamleugh	Northern RWMP	Automatic	Medium
082084	405294	U/S Violet Town	Northern RWMP	Automatic	Low
581010	405226	Moorilim	Northern RWMP	Automatic	Medium
581011	405246	Arcadia	Northern RWMP	Automatic	Medium
581022	405270	Kialla West (Arcadia Downs)	Northern RWMP	Automatic	Medium
082154	405234	D/S Polly McQuinn Weir	Northern RWMP	Automatic	Medium
588037	405205	Murrindindi above Colwells	Northern RWMP	Automatic	Low

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
588009	405241	Rubicon	Northern RWMP	Automatic	Low
588038	405341	Old Killingworth Rd	Northern RWMP	Automatic	Low
588039	405342	Fairview Rd Bridge	Northern RWMP	Automatic	Low
406 – Campaspe River Basin					
581018	406262	Strathfieldsaye	Northern RWMP	Automatic	Medium
581017	406224	Runnymede	Northern RWMP	Automatic	Medium
588029	406235	Heathcote (Wild Duck Ck)	Northern RWMP	Automatic	Low
581003	406219	Lake Eppalock HG	Northern RWMP	Automatic	Low
407 – Loddon River Basin					
588025	407220	Norwood	Northern RWMP	Automatic	Low
588010	407217	Vaughan	Northern RWMP	Automatic	Low
588011	407221	Yandoit	Northern RWMP	Automatic	Low
588018	407300	Muckleford North	Northern RWMP	Automatic	Low
588005	407230	Strathlea	Northern RWMP	Automatic	Medium
588013	407222	Clunes (Tullaroop Ck)	Northern RWMP	Automatic	Low
588024	407214	Clunes (Creswick Ck)	Northern RWMP	Automatic	Low
588014	407213	Carisbrook	Northern RWMP	Automatic	Low
588012	407248	Tullaroop Res (Outlet)	Northern RWMP	Automatic	Medium
588016	407244	Tullaroop Res HG	Northern RWMP	Automatic	Low
588027	407227	Smeaton	Northern RWMP	Automatic	Low
580008	407236	Mitiamo	Northern RWMP	Automatic	Low
588030	407239	Rodborough	Northern RWMP	Automatic	Medium
581005	407240	Laanecoorie Res HG	Northern RWMP	Automatic	Medium

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
580012	407229	Serpentine Weir	Northern RWMP	Automatic	Low
581029	407288	Lillicur (Bet Bet Ck)	Northern RWMP	Automatic	Low
408 – Avoca River Basin					
581028	408202	Amphitheatre	Northern RWMP	Automatic	Low
081127	408206	Archdale Junction	Northern RWMP	Automatic	Medium
581036	408220	Logan	Northern RWMP	Automatic	Medium
415 – Wimmera River Basin					
579005	415207	Eversley (Wimmera R)	Northern RWMP	Automatic	Low
579006	415245	Crowlands	Northern RWMP	Automatic	Low
579010	415238	Navarre (Wattle Ck)	Northern RWMP	Automatic	Medium
579009	415206	Glynwylln	Northern RWMP	Automatic	High
579008	415237	Stawell (Concongella Ck)	Northern RWMP	Automatic	High
579007	415250	Fyans Ck	Northern RWMP	Automatic	Low
579002	415203	Lake Lonsdale TG	Northern RWMP	Automatic	Low
579014	415239	Drung Drung (Wimmera R)	Northern RWMP	Automatic	Medium
579011	415223	Wonwondah East	Northern RWMP	Automatic	Medium
579017	415251	Mckenzie Ck	Northern RWMP	Automatic	Medium
579012	415220	Wimmera Hwy (Avon R)	Northern RWMP	Automatic	High
579026	415285	McNeils Bridge	Northern RWMP	Automatic	Low
579021	415226	Carrs Plains (Richardson R)	Northern RWMP	Automatic	High
579029	415259	Banyena (Richardson R)	Northern RWMP	Automatic	High
578003	415260	U/S Rich Avon Weir	Northern RWMP	Automatic	High
578005	415246	Lochiel	Northern RWMP	Automatic	Low

Bureau number	AWRC Number	Station name	Station Operator	Gauge type	Priority
578006	415257	U/S Donald	Northern RWMP	Automatic	High
409 / 414 – Murray Basin					
574001	409215	Barmah	Northern RWMP	Automatic	Low
580015	409222	Pianta Rd	Northern RWMP	Automatic	Low
572001	409011	Hume Dam (Manual)	Murray Darling Basin Authority	Manual	High
576000	414207	Colignan	Northern RWMP	Automatic	High
572003	409017	Doctors Point	Water NSW	Automatic	High
572002	409016	Heywoods	Water NSW	Automatic	High
574034	409037	Howlong	Water NSW	Automatic	High
575003	409035	Liewah	Water NSW	Automatic	High
575002	409013	Stoney Crossing	Water NSW	Automatic	High
547000	414216	D/S Mildura Weir*	Northern RWMP	Automatic	Low

Notes: Data from MANUAL stations are not available in (near) real time.

- Gippsland RWMP: Gippsland Regional Water Monitoring Partnership
- South West RWMP: South West Regional Water Monitoring Partnership
- Northern RWMP: Northern Regional Water Monitoring Partnership

The Bureau of Meteorology

Schedule 5. Enviromon base stations installed in Victoria

Owner	City/town	License number	Number of users	Date of registration	License version
Latrobe City Council	Traralgon	61030003	3	08/11/2005	3.11.2
Latrobe City Council	Morwell	61030004	3	08/11/2005	3.11.2
Wimmera Catchment Management Authority	Horsham	61030007	3	03/05/2007	3.11.2
Strathbogie Shire Council	Euroa	61030017	3	26/04/2004	3.11.2
Wellington Shire	Sale	61030020	3	24/08/2009	3.11.2
City of Greater Geelong	Geelong	61030015	3	13/02/2004	3.11.2
Southern Rural Water	Maffra	61030019	8	27/07/2009	3.11.2
Bureau of Meteorology	Melbourne	61030015	10	21/02/2008	3.11.2
Bureau of Meteorology	Melbourne	61030006	10	26/03/2007	3.11.2

Schedule 6a. List of sites owned and maintained by the Bureau

Bureau number	Station name	Gauge type	Data type	Priority
220 – Towamba River Basin				
069137	Green Cape	Automatic	Rainfall (AWS)	Medium
221 – East Gippsland Basin				
084143	Combienbar	Automatic	Rainfall (AWS)	Medium
084016	Gabo Island Lighthouse	Automatic	Rainfall (AWS)	Medium
084084	Mallacoota	Automatic	Rainfall (AWS)	Medium
222 – Snowy River Basin				
070328	Bombala	Automatic	Rainfall (AWS)	Medium
084142	Gelantipy	Automatic	Rainfall (AWS)	Medium
084152	* Mt Delegate	Automatic	Rainfall/Repeater	High
084154	Mt Mcleod	Automatic	Repeater	High
084145	Orbost	Automatic	Rainfall (AWS)	Medium
071032	Thredbo (Crackenback)	Automatic	Rainfall (AWS)	Medium
223 – Tambo River Basin				
084144	Mt Nowa Nowa	Automatic	Rainfall (AWS)/Repeater	High
224 – Mitchell River Basin				
085279	Bairnsdale Airport	Automatic	Rainfall (AWS)	Medium
084097	* Bulumwaal	Automatic	Rainfall	Low
083085	Mount Hotham	Automatic	Rainfall (AWS)	Medium
225 – Thomson River Basin				
085072	East Sale Airport	Automatic	Rainfall (AWS)/Base Station	High
085296	Mt Moornapa	Automatic	Rainfall (AWS)/Repeater/ Base Station	High
085288	* Mt Tamboritha	Automatic	Rainfall	Low
085021	* Mt Useful	Automatic	Rainfall/Repeater	High
085289	* Murderers Hill	Automatic	Rainfall	Low
085272	* Sale Wharf	Automatic	Water Level	High
226 – Latrobe River Basin				
085280	Latrobe Valley Airport	Automatic	Rainfall (AWS)	Medium
085291	Mount Baw Baw	Automatic	Rainfall (AWS)	Medium
085313	Nilma North (Warragul)	Automatic	Rainfall (AWS)	Medium
227 – South Gippsland Basin				
085099	Pound Creek	Automatic	Rainfall (AWS)	Medium
086373	Rhyll	Automatic	Rainfall (AWS)	Medium
085096	Wilsons Prom Lighthouse	Automatic	Rainfall (AWS)	Medium
085301	Yanakie	Automatic	Rainfall (AWS)	Medium
085151	Yarram Airport	Automatic	Rainfall (AWS)	Medium
228 – Bunyip River Basin				
086361	Cerberus	Automatic	Rainfall (AWS)	Medium
086266	Ferny Creek	Automatic	Rainfall (AWS)	Medium
086077	Moorabbin Airport	Automatic	Rainfall (AWS)	Medium
086104	Scoresby Research Int	Automatic	Rainfall (AWS)	Medium
229 – Yarra River Basin				
086383	Coldstream	Automatic	Rainfall (AWS)	Medium
086038	Essendon Airport	Automatic	Rainfall (AWS)	Medium
086338	Melbourne (Olympic Park)	Automatic	Rainfall (AWS)	Medium
086068	Viewbank	Automatic	Rainfall (AWS)	Medium
230 – Maribyrnong River Basin				
086282	Melbourne Airport	Automatic	Rainfall (AWS)	Medium
231 – Werribee River Basin				
087031	Laverton RAAF	Automatic	Rainfall (AWS)	Medium

Bureau number	Station name	Gauge type	Data type	Priority
232 – Moorabool River Basin				
087113	Avalon Airport	Automatic	Rainfall (AWS)	Medium
233 – Barwon River Basin				
087184	Geelong Racecourse	Automatic	Rainfall (AWS)	Medium
090035	Mount Gellibrand	Automatic	Rainfall (AWS)	Medium
235 – Otway Coast Basin				
090180	Aireys Inlet	Automatic	Rainfall (AWS)	Medium
090015	Cape Otway Lighthouse	Automatic	Rainfall (AWS)	Medium
236 – Hopkins River Basin				
089002	Ballarat Aerodrome	Automatic	Rainfall (AWS)	High
090176	Mortlake Racecourse	Automatic	Rainfall (AWS)	Medium
090186	Warrnambool Airport	Automatic	Rainfall (AWS)	Medium
089112	Westmere	Automatic	Rainfall (AWS)	Medium
237 – Portland Coast Basin				
090184	Cape Nelson Lighthouse	Automatic	Rainfall (AWS)	Medium
090171	Portland Airport	Automatic	Rainfall (AWS)	Medium
090175	Port Fairy AWS	Automatic	Rainfall (AWS)	Medium
238 – Glenelg River Basin				
090182	Casterton	Automatic	Rainfall (AWS)	Medium
090194	Dartmoor	Automatic	Rainfall (AWS)	Medium
090173	Hamilton Airport	Automatic	Rainfall (AWS)	Medium
239 – Millicent Coast Basin				
079099	Edenhope	Automatic	Rainfall (AWS)	Medium
079109	Booroopki Comparison	Automatic	Rainfall	Low
401 – Upper Murray River Basin				
082139	Hunters Hill	Automatic	Rainfall (AWS)	Medium
072162	Khancoban AWS	Automatic	Rainfall (AWS)	Medium
083055	Mount Hotham Airport	Automatic	Rainfall (AWS)	Medium
083090	Omeo	Automatic	Rainfall (AWS)	Medium
402 – Kiewa River Basin				
083084	Falls Ck	Automatic	Rainfall (AWS)	Medium
403 – Ovens River Basin				
083077	* Bald Hill	Automatic	Rainfall	Low
082166	* Bloomfield Park (Everton)	Automatic	Rainfall	Low
082163	* Carboor Upper	Automatic	Rainfall	Low
082167	* Greta West	Automatic	Rainfall	Low
083073	* Mt Buffalo Chalet	Automatic	Rainfall/Repeater	High
083089	* Mt Porepunkah	Automatic	Repeater	High
082039	Rutherglen AWS	Automatic	Rainfall (AWS)	Medium
082164	* Schmidts Farm	Automatic	Repeater	High
082138	Wangaratta	Automatic	Rainfall (AWS)/Base Station	High
081124	Yarrawonga	Automatic	Rainfall (AWS)/Base Station	High
404 – Broken River Basin				
082165	* Stump Hill (Barjarg)	Automatic	Rainfall	Low
081087	* Highlands (Bungeet)	Automatic	Rainfall/Repeater	High
582029	* Lurg	Automatic	Repeater	High
405 – Goulburn River Basin				
088164	Eildon Firetower	Automatic	Rainfall (AWS)	Medium
088154	* Highwood	Automatic	Rainfall	Medium
088162	Kilmore Gap	Automatic	Rainfall (AWS)	Medium
080091	Kyabram	Automatic	Rainfall (AWS)	Medium
088109	Mangalore Airport	Automatic	Rainfall (AWS)	Medium
083024	Mount Buller	Automatic	Rainfall (AWS)	Medium

Bureau number	Station name	Gauge type	Data type	Priority
081125	Shepparton Airport	Automatic	Rainfall (AWS)	Medium
081049	Tatura	Automatic	Rainfall (AWS)	Medium
406 – Campaspe River Basin				
088051	Redesdale AWS	Automatic	Rainfall (AWS)	Medium
407 – Loddon River Basin				
081123	Bendigo Airport	Automatic	Rainfall (AWS)	Medium
408 – Avoca River Basin				
080128	Charlton	Automatic	Rainfall (AWS)	Medium
414 – Mallee Basin				
076031	Mildura Airport	Automatic	Rainfall (AWS)	Medium
076006	Tutye (Bunurouk) Comparison	Automatic	Rainfall	Low
078087	Yanac North Comparison	Automatic	Rainfall	Low
415 – Wimmera River Basin				
079101	Ben Nevis	Automatic	Rainfall (AWS)/Repeater	High
077010	Hopetoun Airport	Automatic	Rainfall (AWS)	Medium
079100	Horsham Aerodrome	Automatic	Rainfall (AWS)	Medium
079097	Kanagulk	Automatic	Rainfall (AWS)	Medium
079028	Longerenong	Automatic	Rainfall (AWS)	Medium
079103	Mt William	Automatic	Rainfall (AWS)/Repeater	High
078015	Nhill Aerodrome	Automatic	Rainfall (AWS)	Medium
079105	Stawell Aerodrome	Automatic	Rainfall (AWS)	Medium
076064	Walpeup Research Station	Automatic	Rainfall (AWS)	Medium
077098	Rainbow Radar	Automatic	Rainfall	High
078032	Gerang Gerung (Comparison)	Automatic	Rainfall	Low
077097	Hillview Nypo	Automatic	Rainfall	Low
077100	Marlbed Comparison	Automatic	Rainfall	Low
079102	Warranooke (Glenorchy) Comparison	Automatic	Rainfall	Low
409 – Murray Riverina Basin				
072160	Albury Airport	Automatic	Rainfall (AWS)	Medium
074258	Deniliquin Airport	Automatic	Rainfall (AWS)	Medium
574000	* Echuca Wharf / Moama	Automatic	Water Level	High
077094	Swan Hill Airport	Automatic	Rainfall (AWS)	Medium
410 – Murrumbidgee River Basin				
072161	Cabramurra SMHEA	Automatic	Rainfall (AWS)	Medium
070217	Cooma Airport	Automatic	Rainfall (AWS)	Medium

Notes:

- * Site included in the Regional Water Monitoring Partnerships for maintenance
- List includes Bureau automatic weather stations (AWS), but does not include daily rainfall sites or other Bureau synoptic stations

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Schedule 6b. List of rainfall sites maintained by external agencies

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
221 – East Gippsland Basin					
084128	Chandlers Ck (East Branch)	Gippsland RWMP	Automatic	Rainfall/Water Level	High
584007	The Gorge (Genoa R)	Gippsland RWMP	Automatic	Rainfall/Water Level	High
584033	Club Terrace (Bemm R)	Gippsland RWMP	Automatic	Rainfall	Low
584034	Buldah (Cann R)	Gippsland RWMP	Automatic	Rainfall	Low
584036	Mt Bemm FT	Gippsland RWMP	Automatic	Rainfall/Repeater	High
584037	Mt Waldron FT	Gippsland RWMP	Automatic	Rainfall/Repeater	High
222 – Snowy River Basin					
084109	Basin Ck	Gippsland RWMP	Automatic	Rainfall/Water Level	High
584020	Buchan (Buchan R)	Gippsland RWMP	Automatic	Rainfall/Water Level	High
070008	Burnt Hut Crossing	Water NSW	Automatic	Rainfall/Water Level	High
071019	Dalgety Weir	Water NSW	Automatic	Rainfall/Water Level	Medium
084126	Mckillops Bridge	Gippsland RWMP	Automatic	Rainfall/Water Level	High
069152	Mount Darragh	Water NSW	Automatic	Rainfall	Low
070237	Nimmitabel	Water NSW	Automatic	Rainfall	Low
070309	Quidong	Water NSW	Automatic	Rainfall/Water Level	Medium
570056	The Hut	Water NSW	Automatic	Rainfall/Water Level	Low
570018	Wellesley (Rowes)	Water NSW	Automatic	Rainfall/Water Level	Medium
223 – Tambo River Basin					

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
584024	Mt Elizabeth	Gippsland RWMP	Automatic	Rainfall/Repeater	High
584006	Swifts Ck	Gippsland RWMP	Automatic	Rainfall/Water Level	Low
584035	Brookville	Gippsland RWMP	Automatic	Rainfall	Low
224 – Mitchell River Basin					
585033	Crooked River	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
085270	Glenaladale	Gippsland RWMP	Automatic	Rainfall/Water Level	High
584005	Lower Dargo Rd	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
084147	Rosehill	Gippsland RWMP	Automatic	Rainfall/Water Level	High
084118	Waterford	Gippsland RWMP	Automatic	Rainfall/Water Level	High
225 – Thomson River Basin					
585037	Blanket Hill	Gippsland RWMP	Automatic	Rainfall	Low
585034	Briagolong (Freestone Ck)	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
585003	Glencairn	Gippsland RWMP	Automatic	Rainfall/Water Level	High
083094	High Ridge	Gippsland RWMP	Automatic	Rainfall	Medium
225 – Thomson River Basin (continued)					
585004	Licola Macalister R)	Gippsland RWMP	Automatic	Rainfall/Water Level	High
085021	Mount Useful	Gippsland RWMP	Automatic	Rainfall/Repeater	High
085304	Mount Wellington	Gippsland RWMP	Automatic	Rainfall	Medium
083093	Mt Sunday	Gippsland RWMP	Automatic	Rainfall	Medium
085303	Reeves Knob	Gippsland RWMP	Automatic	Rainfall/Repeater	High
085302	Snowy Range	Gippsland RWMP	Automatic	Rainfall	Medium
585025	Stratford (Avon R)	Gippsland RWMP	Automatic	Rainfall/Water Level	High
585032	Stringybark Ck	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
085276	The Channel	Gippsland RWMP	Automatic	Rainfall/Water Level	High

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
585021	The Gorge (Glenmaggie Ck)	Gippsland RWMP	Automatic	Rainfall/Water Level	High
585022	U/S Cowwarr Weir	Gippsland RWMP	Automatic	Rainfall/Water Level	High
226 – Latrobe River Basin					
085007	Balook	Gippsland RWMP	Automatic	Rainfall	Medium
585017	Boolarra	Gippsland RWMP	Automatic	Rainfall/Water Level	High
585141	Traralgon South Township	Gippsland RWMP	Automatic	Rainfall	Medium
585247	Darnum	Gippsland RWMP	Automatic	Rainfall/Water Level	High
085307	Jeeralang North	Gippsland RWMP	Automatic	Rainfall	Low
085281	Koornalla	Gippsland RWMP	Automatic	Rainfall/Water Level	High
085309	Moe South	Gippsland RWMP	Automatic	Rainfall	Low
585186	Mount Tassie	Gippsland RWMP	Automatic	Rainfall/Repeater	High
585036	Noojee	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
585029	Tanjil South	Gippsland RWMP	Automatic	Rainfall/Water Level	High
585079	Thorpdale	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
085308	Thorpdale Peak	Gippsland RWMP	Automatic	Rainfall	Low
085009	Traralgon - EPA	Gippsland RWMP	Automatic	Rainfall/Repeater	High
585014	Traralgon South	Gippsland RWMP	Automatic	Rainfall/Water Level	High
085310	Yarragon South	Gippsland RWMP	Automatic	Rainfall	Low
227 – South Gippsland Basin					
585047	Stradbroke West	Gippsland RWMP	Automatic	Rainfall/Water Level	Low
228 – Bunyip River Basin					
585090	Nayook	Melbourne Water	Automatic	Rainfall	Medium
586033	Cardinia Reservoir	Melbourne Water	Automatic	River/Rainfall	Medium
586036	Hampton	Melbourne Water	Automatic	Rainfall	Medium

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
586091	Pakenham Upper (Sheltons Road)	Melbourne Water	Automatic	Rainfall	Medium
586105	Braeside Park	Melbourne Water	Automatic	Rainfall	Medium
586112	Arthurs Seat	Melbourne Water	Automatic	Rainfall	Medium
586197	Mt View Reservoir	Melbourne Water	Automatic	Rainfall	Medium
586199	Berwick	Melbourne Water	Automatic	Rainfall	Medium
586217	Oakleigh South	Melbourne Water	Automatic	Rainfall	Medium
586223	Sandringham	Melbourne Water	Automatic	Rainfall	Medium
586282	Frankston Reservoir	Melbourne Water	Automatic	Rainfall	Medium
586283	Springvale	Melbourne Water	Automatic	Rainfall	Medium
586284	Knoxfield	Melbourne Water	Automatic	Rainfall	Medium
586285	Chelsea	Melbourne Water	Automatic	Rainfall	Medium
586286	Athlone	Melbourne Water	Automatic	Rainfall	Medium
586291	Carrum	Melbourne Water	Automatic	Rainfall	Medium
586295	Dandenong North	Melbourne Water	Automatic	Rainfall	Medium
585088	Tarago River East Branch at Neerim	Melbourne Water	Automatic	River/Rainfall	High
586087	Eel Race Drain at Riviera Street Culverts	Melbourne Water	Automatic	River/Rainfall	Low
586088	Mile Creek at Springvale West	Melbourne Water	Automatic	River/Rainfall	Medium
586090	Cardinia Creek at Officer South	Melbourne Water	Automatic	River/Rainfall	Medium
586093	Cardinia Creek at Cardinia	Melbourne Water	Automatic	River/Rainfall	Medium
586095	Bungalook Creek at Fussel Rd RB (Montrose)	Melbourne Water	Automatic	River/Rainfall	Medium
586096	Hallam Contour Drain at Hampton Park	Melbourne Water	Automatic	River/Rainfall	Medium
586097	Gum Scrub Creek at Officer (Princess Highway)	Melbourne Water	Automatic	River/Rainfall	Medium
586098	Skye Rd Retarding Basin (Frankston North)	Melbourne Water	Automatic	River/Rainfall	Medium
586114	Eumemmerring Creek at Dandenong South	Melbourne Water	Automatic	River/Rainfall	Medium

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
586124	Lang Lang River at Yannathan (Hamiltons Bridge)	Melbourne Water	Automatic	River/Rainfall	Medium
586179	Dandenong Creek at Heathmont (Wantirna Rd)	Melbourne Water	Automatic	River/Rainfall	High
586187	Heatherton Main Drain at Sothern Rd RB (Mentone)	Melbourne Water	Automatic	River/Rainfall	Medium
586190	Clayton South Drain at Clayton	Melbourne Water	Automatic	River/Rainfall	Medium
586207	Dandenong Creek at Keysborough (Greens Road)	Melbourne Water	Automatic	River/Rainfall	High
586257	Eumemmerring Creek at Narre Warren North	Melbourne Water	Automatic	River/Rainfall	Medium
586274	King Parrot Creek at Longwarry South	Melbourne Water	Automatic	River/Rainfall	Medium
586276	Eastern Contour Drain at Dandenong South (Fox Dr)	Melbourne Water	Automatic	River/Rainfall	Medium
586278	Beaconsfield Reservoir	Melbourne Water	Automatic	River/Rainfall	Medium
586288	Thompsons Rd RB (Cranbourne)	Melbourne Water	Automatic	River/Rainfall	Medium
586290	Troups Ck East Branch at Prospect Hill RB (Narre Warren North)	Melbourne Water	Automatic	River/Rainfall	Medium
585043	Tarago River at Drouin West	Melbourne Water	Automatic	River/Rainfall	High
585045	Bunyip River at Longwarry North	Melbourne Water	Automatic	River/Rainfall	High
586071	Bunyip River at Iona	Melbourne Water	Automatic	River/Rainfall	High
586081	Bunyip River at Tonimbuk	Melbourne Water	Automatic	River/Rainfall	High
586084	Dandenong Creek at Rowville	Melbourne Water	Automatic	River/Rainfall	High
586085	Blind Creek at Knox RB	Melbourne Water	Automatic	River/Rainfall	Medium
586086	Dandenong Creek at Liverpool Rd RB (The Basin)	Melbourne Water	Automatic	River/Rainfall	Medium
586198	Bunyip River at Koo Wee Rup	Melbourne Water	Automatic	River/Rainfall	Medium
586258	Monbulk Creek at Lysterfield	Melbourne Water	Automatic	River/Rainfall	Medium
585044	Tarago Reservoir	Melbourne Water	Automatic	River/Rainfall	High
229 – Yarra River Basin					
086305	Greenvale Reservoir	Melbourne Water	Automatic	Rainfall	Medium

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
585000	Thomson-Yarra Divide	Melbourne Water	Automatic	Rainfall	Medium
586006	Mitcham Reservoir	Melbourne Water	Automatic	Rainfall	Medium
586010	Doncaster (Golf Club)	Melbourne Water	Automatic	Rainfall	Medium
586011	Preston Reservoir	Melbourne Water	Automatic	Rainfall	Medium
586013	Mt Gregory	Melbourne Water	Automatic	Rainfall	Medium
586021	Poley Range	Melbourne Water	Automatic	Rainfall	Medium
586028	Greenvale Reservoir	Melbourne Water	Automatic	Rainfall	Medium
586037	Doncaster (Zerbes Reserve)	Melbourne Water	Automatic	Rainfall	Medium
586041	Lower Coranderrk	Melbourne Water	Automatic	Rainfall	Medium
586058	Gladysdale Post Office	Melbourne Water	Automatic	Rainfall	Medium
586066	Mount Horsfall	Melbourne Water	Automatic	Rainfall	Medium
586073	Mount Juliet	Melbourne Water	Automatic	Rainfall	Medium
586074	Shaws Rain Gauge at Vantage Point G	Melbourne Water	Automatic	Rainfall	Medium
586075	Mt Donna Buang	Melbourne Water	Automatic	Rainfall	Medium
586115	Caulfield South	Melbourne Water	Automatic	Rainfall	Medium
586146	Wallan	Melbourne Water	Automatic	Rainfall	Medium
586176	Surrey Hills	Melbourne Water	Automatic	Rainfall	Medium
586182	Mt Dandenong	Melbourne Water	Automatic	Rainfall	Medium
586183	Mt St Leonard	Melbourne Water	Automatic	Rainfall	Medium
586186	Warburton	Melbourne Water	Automatic	Rainfall	High
586193	Kew Reservoir	Melbourne Water	Automatic	Rainfall	Medium
586196	Ringwood (Burnt Bridge)	Melbourne Water	Automatic	Rainfall	Medium
586205	Kinglake	Melbourne Water	Automatic	Rainfall	Medium
586222	Beenak	Melbourne Water	Automatic	Rainfall	Medium

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
586247	North Wharf	Melbourne Water	Automatic	Rainfall	Medium
586255	Essendon North	Melbourne Water	Automatic	Rainfall	Medium
586301	Notting Hill Reservoir	Melbourne Water	Automatic	Rainfall	Medium
586302	Warburton (Four Mile Creek Reservoir)	Melbourne Water	Automatic	River/Rainfall	Medium
586303	Caulfield North	Melbourne Water	Automatic	Rainfall	Medium
586338	Smiths Gully	Melbourne Water	Automatic	Rainfall	Medium
586339	South Morang	Melbourne Water	Automatic	Rainfall	Medium
586340	Thomastown	Melbourne Water	Automatic	Rainfall	Medium
586341	Eltham North	Melbourne Water	Automatic	Rainfall	Medium
586342	Alphington	Melbourne Water	Automatic	Rainfall	Medium
588067	Cambarville	Melbourne Water	Automatic	Rainfall	Medium
586101	Yan Yean Reservoir HG	Melbourne Water	Automatic	River/Rainfall	Medium
586051	Sugarloaf Reservoir	Melbourne Water	Automatic	River/Rainfall	Medium
586030	Merri Creek at Somerton (Cooper St)	Melbourne Water	Automatic	River/Rainfall	High
586052	Gardiners Creek at Gardiner	Melbourne Water	Automatic	River/Rainfall	Medium
586056	Starvation Creek	Melbourne Water	Automatic	River/Rainfall	Medium
586062	Watsons Creek at Kangaroo Ground South	Melbourne Water	Automatic	River/Rainfall	High
586153	Yarra River at Burnley	Melbourne Water	Automatic	River/Rainfall	High
586162	Gardiners Creek at Kinkora Rd RB (Blackburn North)	Melbourne Water	Automatic	River/Rainfall	Medium
586166	Port Phillip Bay at St Kilda Marina	Melbourne Water	Automatic	Rainfall	Low
586167	Merlynston Creek at Fawkner Cemetery	Melbourne Water	Automatic	River/Rainfall	Medium
586181	Elsternwick Main Drain at Elsternwick	Melbourne Water	Automatic	Rainfall	Low
586184	Monbulk	Melbourne Water	Automatic	Rainfall	Medium
586192	Gardiners Creek at Ashwood	Melbourne Water	Automatic	River/Rainfall	Medium

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
586200	Moonee Ponds Creek at Jacana RB	Melbourne Water	Automatic	River/Rainfall	Medium
586202	Olinda Creek at Mt Evelyn	Melbourne Water	Automatic	River/Rainfall	Medium
586211	Merri Creek at Craigieburn	Melbourne Water	Automatic	River/Rainfall	High
586212	Plenty River at Greensborough	Melbourne Water	Automatic	River/Rainfall	High
586214	Darebin Creek at Ivanhoe (Bell St)	Melbourne Water	Automatic	River/Rainfall	High
586220	Brushy Creek at Mooroolbark	Melbourne Water	Automatic	River/Rainfall	Medium
586221	Olinda Creek at Lillydale Lake	Melbourne Water	Automatic	River/Rainfall	Medium
586254	Clearwater Channel DS Toorrourong Reservoir	Melbourne Water	Automatic	River/Rainfall	Medium
586312	Stringybark Creek at Yering (St Huberts Rd)	Melbourne Water	Automatic	River/Rainfall	High
586319	Dixons Creek at Melba HWY	Melbourne Water	Automatic	River/Rainfall	Medium
586323	Merlynston Creek at Dallas	Melbourne Water	Automatic	River/Rainfall	Medium
586324	Moonee Ponds Creek at Flemington (US Mt Alexander Rd)	Melbourne Water	Automatic	River/Rainfall	Medium
586325	Thomson-Yarra Tunnel Outlet	Melbourne Water	Automatic	Rainfall	High
086347	Yarra River at Warrandyte	Melbourne Water	Automatic	River/Rainfall	High
586012	Merri Creek at Coburg (Bell St)	Melbourne Water	Automatic	River/Rainfall	High
586044	Yarra River at Coldstream (Yarra Grange)	Melbourne Water	Automatic	River/Rainfall	High
586047	Arthurs Creek at Arthurs Creek	Melbourne Water	Automatic	River/Rainfall	High
586053	Yarra River at Christmas Hills	Melbourne Water	Automatic	River/Rainfall	High
586080	Merri Creek at Northcote (St Georges Rd)	Melbourne Water	Automatic	River/Rainfall	High
586148	Darebin Creek at Epping	Melbourne Water	Automatic	River/Rainfall	High
586149	Plenty River at Mernda	Melbourne Water	Automatic	River/Rainfall	High
586151	Diamond Creek at Hurstbridge	Melbourne Water	Automatic	River/Rainfall	High
586159	Eley Road East Drain at Burwood East	Melbourne Water	Automatic	River/Rainfall	Medium

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
586171	Plenty River at Lower Plenty	Melbourne Water	Automatic	River/Rainfall	High
586172	Darebin Creek at Bundoora	Melbourne Water	Automatic	River/Rainfall	Medium
586175	Yarra River at Heidelberg (Banksia Street)	Melbourne Water	Automatic	River/Rainfall	High
586215	Woori Yallock Creek at Woori Yallock	Melbourne Water	Automatic	River/Rainfall	High
586314	Merri Creek at Craigieburn East (Craigieburn Rd)	Melbourne Water	Automatic	River/Rainfall	High
586024	Watts River at Maroondah Reservoir HG	Melbourne Water	Automatic	River/Rainfall	High
586102	O'Shannassy River at O'Shannassy Dam	Melbourne Water	Automatic	River/Rainfall	High
586304	Upper Yarra Dam	Melbourne Water	Automatic	River/Rainfall	High
586320	Plenty River at Toorrourong Reservoir HG	Melbourne Water	Automatic	River/Rainfall	High
586172	Darebin Creek at Bundoora	Melbourne Water	Automatic	River/Rainfall	Medium
230 – Maribyrnong River Basin					
087062	Sydenham	Melbourne Water	Automatic	Rainfall	Medium
586298	Avondale Heights	Melbourne Water	Automatic	Rainfall	Medium
587004	Sunshine North	Melbourne Water	Automatic	Rainfall	Medium
587014	Bulla	Melbourne Water	Automatic	Rainfall	Medium
587053	Footscray	Melbourne Water	Automatic	Rainfall	Medium
587079	Lancefield North	Melbourne Water	Automatic	Rainfall	Medium
587084	Sydenham	Melbourne Water	Automatic	Rainfall	Medium
587085	Braybrook	Melbourne Water	Automatic	Rainfall	Medium
587086	Lake Borrie	Melbourne Water	Automatic	Rainfall	Medium
587117	Romsey	Melbourne Water	Automatic	Rainfall	Medium
587118	Mt Macedon	Melbourne Water	Automatic	Rainfall	High
587080	Stony Creek at Yarraville (Benbow St)	Melbourne Water	Automatic	Rainfall	Low
586122	Maribyrnong River at Keilor	South West RWMP	Automatic	River/Rainfall	High

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
586178	Deep Creek at Darraweit Guim	Melbourne Water	Automatic	River/Rainfall	High
586297	Deep Creek at Bolinda (Kennedy Lane)	South West RWMP	Automatic	River/Rainfall	Medium
587015	Maribyrnong River at Maribyrnong	Melbourne Water	Automatic	River/Rainfall	High
587055	Deep Creek at Konagaderra	Melbourne Water	Automatic	River/Rainfall	High
587082	Bolinda Creek at Clarkefield	Melbourne Water	Automatic	River/Rainfall	Medium
587116	Jacksons Creek at Sunbury	South West RWMP	Automatic	River/Rainfall	High
587027	Jacksons Creek at Gisborne Treatment Plant	South West RWMP	Automatic	River/Rainfall	High
587006	Jacksons Creek at Rosslynne Reservoir (HG)	Melbourne Water	Automatic	River/Rainfall	High
231 – Werribee River Basin					
087031	Laverton	Melbourne Water	Automatic	Rainfall	Low
587019	Toolern Vale	Melbourne Water	Automatic	Rainfall	Medium
587036	Mt Hope	Melbourne Water	Automatic	Rainfall	Medium
587037	Blue Mountain	Melbourne Water	Automatic	Rainfall	Medium
587044	Bullengarook	Melbourne Water	Automatic	Rainfall	Medium
587047	Altona	Melbourne Water	Automatic	Rainfall	Low
587051	St Albans	Melbourne Water	Automatic	Rainfall	Medium
587066	Mt Blackwood	Melbourne Water	Automatic	Rainfall	High
587089	Quandong	Melbourne Water	Automatic	Rainfall	Medium
587098	Cocoroc (Western Treatment Plant)	Melbourne Water	Automatic	Rainfall	Medium
587099	Laverton North	Melbourne Water	Automatic	Rainfall	Medium
587100	Derrimut	Melbourne Water	Automatic	Rainfall	Medium
587101	Caroline Springs	Melbourne Water	Automatic	Rainfall	Medium
587102	Hoppers Crossing	Melbourne Water	Automatic	Rainfall	Medium
587103	Ballan	Melbourne Water	Automatic	Rainfall	High

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
587043	Toolern Creek at Melton South	Melbourne Water	Automatic	River/Rainfall	High
587049	Skeleton Creek at Hoppers Crossing	Melbourne Water	Automatic	River/Rainfall	Low
587000	Kororoit Creek at Rockbank	Melbourne Water	Automatic	River/Rainfall	Low
587001	Kororoit Creek at Deer Park	Melbourne Water	Automatic	River/Rainfall	Low
587022	Lerderderg River US Goodman Creek	South West RWMP	Automatic	River/Rainfall	High
587054	Kororoit Creek at Brooklyn	Melbourne Water	Automatic	River/Rainfall	Low
587096	Parwan Creek at Maddingley	Melbourne Water	Automatic	River/Rainfall	Medium
587130	Kororoit Creek at Diggers Rest	Melbourne Water	Automatic	River/Rainfall	Low
587073	Pykes Creek at Pykes Creek Reservoir (HG)	Southern Rural Water	Automatic	River/Rainfall	High
587074	Pyrites Creek at Merrimu Reservoir (HG)	Southern Rural Water	Automatic	River/Rainfall	High
232 – Moorabool River Basin					
087021	Durdidwarrah	South West RWMP	Automatic	Rainfall	Low
587040	Granite Road	City of Greater Geelong	Automatic	Rainfall	Low
087068	Lal Lal	South West RWMP	Automatic	Rainfall/Water Level	Low
587035	Lara	City of Greater Geelong	Automatic	Rainfall/Water Level	Low
087016	Morrisons	South West RWMP	Automatic	Rainfall/Water Level	Medium
587038	Wooloomanata	City of Greater Geelong	Automatic	Rainfall	Low
233 – Barwon River Basin					
090189	Agroforestry Site at Gerangamete	South West RWMP	Automatic	Rainfall	Low
090188	Benwerrin	South West RWMP	Automatic	Rainfall	Medium
090187	Boonah	South West RWMP	Automatic	Rainfall/Repeater	High
587068	Moolap (Saltworks)	South West RWMP	Automatic	Rainfall/Water Level	Low
589003	Inverleigh	South West RWMP	Automatic	Rainfall/Water Level	Medium
587067	Moolap (Splashdown Aquatic Centre)	South West RWMP	Automatic	Rainfall	Low

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
087046	Mount Buninyong	South West RWMP	Automatic	Rainfall	Medium
090183	Mount Sabine	South West RWMP	Automatic	Rainfall	Medium
089104	Mt Mercer	South West RWMP	Automatic	Rainfall/Water Level	High
087162	Pollocksford	South West RWMP	Automatic	Rainfall/Water Level	High
590000	Ricketts Marsh	South West RWMP	Automatic	Rainfall/Water Level	High
589001	Shelford Highway Bridge	South West RWMP	Automatic	Rainfall/Water Level	High
089084	Warrambine	South West RWMP	Automatic	Rainfall/Water Level	High
235 – Otway Coast Basin					
090185	Mount Cowley	South West RWMP	Automatic	Rainfall	Medium
236 – Hopkins River Basin					
589009	Ararat	South West RWMP	Automatic	Rainfall/Water Level	Low
589008	Mena Park	South West RWMP	Automatic	Rainfall/Water Level	High
237 – Portland Coast Basin					
590016	Gerrigerup	South West RWMP	Automatic	Rainfall	Low
590022	Moyne River at Willatook	South West RWMP	Automatic	Rainfall/Water Level	Low
401 – Upper Murray River Basin					
582009	Berringama	Northern RWMP	Automatic	Rainfall/Water Level	Medium
582015	Biggara	Water NSW	Automatic	Rainfall/Water Level	High
572036	Geehi Airstrip	Snowy Hydro	Automatic	Rainfall	Low
582016	Gibbo Park	Gippsland RWMP	Automatic	Rainfall/Water Level	Low
582018	Granite Flat	Northern RWMP	Automatic	Rainfall/Water Level	Medium
072156	Jingellic	Northern RWMP	Automatic	Rainfall/Water Level	High
572006	Jingellic Ck	Water NSW	Automatic	Rainfall/Water Level	Medium
583004	Joker Ck	Northern RWMP	Automatic	Rainfall/Water Level	Low

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
572023	Maragle	Water NSW	Automatic	Rainfall/Water Level	Low
582022	McCallums	Northern RWMP	Automatic	Rainfall/Water Level	High
583005	Mitta Mitta River at Hinnomunjie	Northern RWMP	Automatic	Rainfall/Water Level	High
572005	Pinegrove	Water NSW	Automatic	Rainfall/Water Level	High
572017	Tooma Dam	Snowy Hydro	Automatic	Rainfall	Low
402 – Kiewa River Basin					
582012	Mongan's Bridge	Northern RWMP	Automatic	Rainfall/Water Level	High
582020	Osbornes Flat	Northern RWMP	Automatic	Rainfall/Water Level	High
403 – Ovens River Basin					
082116	Angleside	Northern RWMP	Automatic	Rainfall/Water Level	High
082158	Black Range Ck Trout Farm	Northern RWMP	Automatic	Rainfall	Low
082128	Bobinawarrah	Northern RWMP	Automatic	Rainfall/Water Level	High
583148	Bright (Ovens R)	Northern RWMP	Automatic	Rainfall/Water Level	High
082105	Cheshunt	Northern RWMP	Automatic	Rainfall/Water Level	High
082112	Eurobin (Ovens R)	Northern RWMP	Automatic	Rainfall/Water Level	High
582002	Greta South	Northern RWMP	Automatic	Rainfall/Water Level	High
082156	Handcocks	Northern RWMP	Automatic	Rainfall	Medium
083001	Harrietville	Northern RWMP	Automatic	Rainfall/Water Level	Medium
583003	Harris Lane	Northern RWMP	Automatic	Rainfall/Water Level	High
583007	Lake Buffalo D/S	Northern RWMP	Automatic	Rainfall/Water Level	High
083074	Lake William Hovell Reservoir	Northern RWMP	Automatic	Rainfall	Low
083073	Mount Buffalo	Northern RWMP	Automatic	Rainfall/Repeater	High
082157	Myrrhee	Northern RWMP	Automatic	Rainfall	Low

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
582014	Rocky Point	Northern RWMP	Automatic	Rainfall/Water Level	High
583000	Rose River at Matong North	Northern RWMP	Automatic	Rainfall/Water Level	Medium
082162	Rosewhite	Northern RWMP	Automatic	Rainfall/Water Level	Medium
083058	Upper Buckland	Northern RWMP	Automatic	Rainfall/Water Level	Medium
404 – Broken River Basin					
083000	Archerton	Northern RWMP	Automatic	Rainfall	Medium
581006	Benalla	Northern RWMP	Automatic	Rainfall/Water Level	High
582023	Broken Weir	Northern RWMP	Automatic	Rainfall/Water Level	High
082140	Charnwood	Northern RWMP	Automatic	Rainfall	Low
581032	Dookie Water Storage	Northern RWMP	Automatic	Rainfall	Low
582000	D/S Back Ck Junction	Northern RWMP	Automatic	Rainfall/Water Level	Medium
583006	D/S Bridge Ck	Northern RWMP	Automatic	Rainfall/Water Level	Low
581031	Goorambat	Northern RWMP	Automatic	Rainfall	Low
581019	Gowangardie Weir	Northern RWMP	Automatic	Rainfall/Water Level	Medium
580017	Katamatite	Northern RWMP	Automatic	Rainfall/Water Level	Low
580022	Katamatite East	Northern RWMP	Automatic	Rainfall/Water Level	Low
582001	Kelfeera	Northern RWMP	Automatic	Rainfall/Water Level	High
582030	Loombah Reservoir HG	Northern RWMP	Automatic	Rainfall/Water Level	Low
082142	Mount Tabletop	Northern RWMP	Automatic	Rainfall/Repeater	High
582032	Tatong	Northern RWMP	Automatic	Rainfall	Low
404 – Broken River Basin (continued)					
581023	Tungamah	Northern RWMP	Automatic	Rainfall/Water Level	Low
082134	Warrenbayne	Northern RWMP	Automatic	Rainfall	Low
082155	Wrightley	Northern RWMP	Automatic	Rainfall/Water Level	Medium

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
405 – Goulburn River Basin					
581011	Arcadia	Northern RWMP	Automatic	Rainfall/Water Level	Medium
588001	Ash Bridge	Northern RWMP	Automatic	Rainfall/Water Level	Medium
088010	Avalon Station (Willomavin)	Northern RWMP	Automatic	Rainfall	Low
082153	Balquhain	Northern RWMP	Automatic	Rainfall	Low
588041	Black Range Rd	Northern RWMP	Automatic	Rainfall	Low
582037	Booroola	Northern RWMP	Automatic	Rainfall/Repeater	High
588022	Broadford	Northern RWMP	Automatic	Rainfall	Medium
082154	D/S Polly McQuinns	Northern RWMP	Automatic	Rainfall/Water Level	Medium
583151	Dohertys	Northern RWMP	Automatic	Rainfall/Water Level	High
082147	Enderlee	Northern RWMP	Automatic	Rainfall	Low
588039	Fairview Rd Bridge	Northern RWMP	Automatic	Rainfall/Water Level	Low
588043	Falls Rd	Northern RWMP	Automatic	Rainfall	Low
588129	Flowerdale	Northern RWMP	Automatic	Rainfall/Water Level	High
588008	Graytown	Northern RWMP	Automatic	Rainfall/Water Level	Medium
082143	Heronslea	Northern RWMP	Automatic	Rainfall	Low
082145	Hillside	Northern RWMP	Automatic	Rainfall	Low
088103	Marysville Golf Course	Northern RWMP	Automatic	Rainfall	Medium
581010	Moorilim	Northern RWMP	Automatic	Rainfall/Water Level	Medium
082146	Morella	Northern RWMP	Automatic	Rainfall	Low
082148	Moroko Park	Northern RWMP	Automatic	Rainfall	Low
582035	Mount Wombat	Northern RWMP	Automatic	Rainfall/Repeater	High
581001	Murchison	Northern RWMP	Automatic	Rainfall/Water Level	High
588040	Murrindindi Rd	Northern RWMP	Automatic	Rainfall	Low

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
588038	Old Killingworth Rd	Northern RWMP	Automatic	Rainfall/Water Level	Low
588042	Old SEC Sawmill	Northern RWMP	Automatic	Rainfall	Low
088064	Pyalong	Northern RWMP	Automatic	Rainfall/Water Level	Low
588009	Rubicon River	Northern RWMP	Automatic	Rainfall/Water Level	Low
088126	Seymour	Northern RWMP	Automatic	Rainfall/Water Level	High
588045	Spring Ck Rd	Northern RWMP	Automatic	Rainfall	Low
082151	Strathbogie	Northern RWMP	Automatic	Rainfall/Water Level	High
088119	Taggerty	Northern RWMP	Automatic	Rainfall/Water Level	High
588126	Tallarook	Northern RWMP	Automatic	Rainfall/Water Level	High
082149	Telfords Bridge	Northern RWMP	Automatic	Rainfall/Water Level	High
405 – Goulburn River Basin (continued)					
588023	Temagong	Northern RWMP	Automatic	Rainfall	Low
588127	Tonga Bridge	Northern RWMP	Automatic	Rainfall/Water Level	High
082084	U/S Violet Town	Northern RWMP	Automatic	Rainfall/Water Level	Low
082144	Waterhouse Reservoir	Northern RWMP	Automatic	Rainfall	Low
588021	Whiteheads Ck	Northern RWMP	Automatic	Rainfall/Water Level	Medium
588002	Yarck	Northern RWMP	Automatic	Rainfall/Water Level	Medium
588046	Young Lane	Northern RWMP	Automatic	Rainfall	Low
406 – Campaspe River Basin					
581008	Campaspe Weir	Northern RWMP	Automatic	Rainfall/Water Level	High
588006	Redesdale	Northern RWMP	Automatic	Rainfall/Water Level	High
580010	Rochester Syphon	Northern RWMP	Automatic	Rainfall/Water Level	High
581017	Runnymede	Northern RWMP	Automatic	Rainfall/Water Level	Medium
581018	Strathfieldsaye	Northern RWMP	Automatic	Rainfall/Water Level	Medium

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
407 – Loddon River Basin					
581012	Bet Bet	Northern RWMP	Automatic	Rainfall/Water Level	High
088071	Bullarto	Central Highlands Water	Automatic	Rainfall	Medium
588018	Muckleford North	Northern RWMP	Automatic	Rainfall/Water Level	Medium
588011	Yandoit	Northern RWMP	Automatic	Rainfall/Water Level	Low
588010	Vaughan	Northern RWMP	Automatic	Rainfall/Water Level	Low
588013	Clunes (Tullaroop Ck)	Northern RWMP	Automatic	Rainfall/Water Level	Low
408 – Avoca River Basin					
579025	Redbank Reservoir	Northern RWMP	Automatic	Rainfall	Low
581038	Bung Bong	Northern RWMP	Automatic	Rainfall	Low
578000	Yawong Weir	Northern RWMP	Automatic	Rainfall/Water Level	High
081127	Archdale Junction	Northern RWMP	Automatic	Rainfall/Water Level	Medium
081063	Avoca WTP	Northern RWMP	Automatic	Rainfall	Low
579030	St Arnaud (Howitt St)	Northern RWMP	Automatic	Rainfall	Medium
415 – Wimmera River Basin					
579005	Eversley	Northern RWMP	Automatic	Rainfall/Water Level	High
579027	Fire Dam 159	Northern RWMP	Automatic	Rainfall	Low
579026	McNeils Bridge	Northern RWMP	Automatic	Rainfall/Water Level	Low
579010	Navarre (Wattle Ck)	Northern RWMP	Automatic	Rainfall/Water Level	High
579008	Stawell (Concongella Ck)	Northern RWMP	Automatic	Rainfall/Water Level	High
578004	U/S Dimboola	Northern RWMP	Automatic	Rainfall/Water Level	High
578003	U/S Rich Avon Weir	Northern RWMP	Automatic	Rainfall/Water Level	Medium
579012	Wimmera Hwy	Northern RWMP	Automatic	Rainfall/Water Level	Medium

Notes:

- Gippsland RWMP: Gippsland Regional Water Monitoring Partnership
- South West RWMP: South West Regional Water Monitoring Partnership
- Northern RWMP: Northern Regional Water Monitoring Partnership

Schedule 6c. List of Event-Reporting Radio Telemetry Systems (ERRTS) repeater sites

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
221 – East Gippsland Basin					
584036	Mt Bemm FT	Gippsland RWMP	Automatic	Rainfall/Repeater	High
584037	Mt Waldron FT	Gippsland RWMP	Automatic	Rainfall/Repeater	High
222 – Snowy River Basin					
084152	Mount Delegate	Bureau of Meteorology	Automatic	Repeater/Rainfall	High
084154	Mt Mcleod	Bureau of Meteorology	Automatic	Repeater	High
223 – Tambo River Basin					
084144	Mount Nowa Nowa	Bureau of Meteorology	Automatic	Repeater/Rainfall	High
584024	Mt Elizabeth	Gippsland RWMP	Automatic	Repeater/Rainfall	High
225 – Thomson River Basin					
585237	Lake Glenmaggie Head Gauge	Southern Rural Water	Automatic	Repeater/River Level	High
085296	Mount Moornapa	Bureau of Meteorology	Automatic	Repeater/Rainfall/Base Station	High
085021	Mount Useful	Gippsland RWMP	Automatic	Repeater/Rainfall	High
085303	Reeves Knob	Gippsland RWMP	Automatic	Repeater/Rainfall	High
226 – Latrobe River Basin					
585186	Mount Tassie	Gippsland RWMP	Automatic	Repeater/Rainfall	High
085009	Traralgon - EPA	Gippsland RWMP	Automatic	Repeater/Rainfall	High
085307	Jeeralang North	Gippsland RWMP	Automatic	Repeater/Rainfall	High
085289	Murderers Hill	Gippsland RWMP	Automatic	Repeater	High

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
231 – Werribee River Basin					
587048	Mount Cottrell	Bureau of Meteorology	Automatic	Repeater	High
233 – Barwon River Basin					
090187	Boonah	South West RWMP	Automatic	Repeater/Rainfall	High
403 – Ovens River Basin					
583013	Marshall's Ridge	Northern RWMP	Automatic	Repeater	High
083073	Mount Buffalo Chalet	Northern RWMP	Automatic	Repeater/Rainfall	High
083089	Mount Porepunkah	Northern RWMP	Automatic	Repeater	High
583012	Mt Buggery	Northern RWMP	Automatic	Repeater	High
082164	Schmidts Farm	Northern RWMP	Automatic	Repeater	High
404 – Broken River Basin					
081087	Highlands (Bungeet)	Northern RWMP	Automatic	Repeater/Rainfall	High
582029	Lurg Firetower	Northern RWMP	Automatic	Repeater	High
082142	Mount Tabletop	Northern RWMP	Automatic	Repeater/Rainfall	High
405 – Goulburn River Basin					
582037	Booroola	Northern RWMP	Automatic	Repeater/Rainfall	High
088154	Highwood	Northern RWMP	Automatic	Repeater/Rainfall	High
088139	Mount Hickey	Northern RWMP	Automatic	Repeater	High
582035	Mount Wombat	Northern RWMP	Automatic	Repeater/Rainfall	High
408 – Avoca River Basin					
579045	West of England Fire Tower	Northern RWMP	Automatic	Repeater	High
415 – Wimmera River Basin					

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
079101	Ben Nevis	Northern RWMP	Automatic	Repeater/Rainfall	High
579016	Mount Arapiles	Northern RWMP	Automatic	Repeater	High
079103	Mount William	Bureau of Meteorology	Automatic	Repeater/Rainfall	High

Notes:

- Gippsland RWMP: Gippsland Regional Water Monitoring Partnership
- South West RWMP: South West Regional Water Monitoring Partnership
- Northern RWMP: Northern Regional Water Monitoring Partnership

Schedule 7. List of sites where the Bureau assists other agencies with maintenance

Bureau number	Station name	Owner	Gauge type	Data type	Priority
NIL	NIL	NIL	NIL	NIL	NIL

Notes:

The Bureau does not currently assist any other agencies with maintenance on river sites

Schedule 8. List of sites where the Bureau co-locates equipment and the site is owned by another agency

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
221 – East Gippsland Basin					
084128	* Chandlers Ck (East Branch)	Gippsland RWMP	Automatic	Rainfall/Water Level	High
222 – Snowy River Basin					
084126	* Mckillops Bridge	Gippsland RWMP	Automatic	Rainfall/Water Level	High
584020	* Buchan (Buchan R)	Gippsland RWMP	Automatic	Rainfall/Water Level	High
084109	* Basin Ck	Gippsland RWMP	Automatic	Rainfall/Water Level	High
224 – Mitchell River Basin					
584005	* Lower Dargo Rd	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
585033	* Crooked River	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
084118	* Waterford	Gippsland RWMP	Automatic	Rainfall/Water Level	High
085270	* Glenaladale	Gippsland RWMP	Automatic	Rainfall/Water Level	High
084147	* Rosehill	Gippsland RWMP	Automatic	Rainfall/Water Level	High
084146	* Bairnsdale	Gippsland RWMP	Automatic	Water Level	High
225 – Thomson River Basin					
085276	* The Channel	Gippsland RWMP	Automatic	Rainfall/Water Level	High
585034	* Briagolong (Freestone Ck)	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
585025	* Stratford (Avon R)	Gippsland RWMP	Automatic	Rainfall/Water Level	High
585022	* U/S Cowwarr Weir	Gippsland RWMP	Automatic	Rainfall/Water Level	High

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
585004	* Licola (Macalister R)	Gippsland RWMP	Automatic	Rainfall/Water Level	High
585003	* Glencairn	Gippsland RWMP	Automatic	Rainfall/Water Level	High
226 – Latrobe River Basin					
585029	* Tanjil South	Gippsland RWMP	Automatic	Rainfall/Water Level	High
585036	* Noojee	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
585247	* Darnum	Gippsland RWMP	Automatic	Rainfall/Water Level	High
585017	* Boolarra	Gippsland RWMP	Automatic	Rainfall/Water Level	High
585079	* Thorpdale	Gippsland RWMP	Automatic	Rainfall/Water Level	Medium
233 – Barwon River Basin					
087162	* Pollocksford	South West RWMP	Automatic	Water Level	High
090187	* Boonah	South West RWMP	Automatic	Rainfall	Medium
589001	* Shelford Highway Bridge	South West RWMP	Automatic	Rainfall/Water Level	High
590000	* Ricketts Marsh	South West RWMP	Automatic	Rainfall/Water Level	High
089104	* Mt Mercer	South West RWMP	Automatic	Rainfall/Water Level	High
401 – Upper Murray River Basin					
582009	* Berringama	Northern RWMP	Automatic	Rainfall/Water Level	Medium
402 – Kiewa River Basin					
582012	* Mongan's Bridge	Northern RWMP	Automatic	Rainfall/Water Level	High
582020	* Osbornes Flat	Northern RWMP	Automatic	Rainfall/Water Level	High
403 – Ovens River Basin					
082105	* Cheshunt	Northern RWMP	Automatic	Rainfall/Water Level	High
082112	* Eurobin (Ovens R)	Northern RWMP	Automatic	Rainfall/Water Level	High

Bureau number	Station name	Maintained by	Gauge type	Data type	Priority
082128	* Bobinawarrah	Northern RWMP	Automatic	Rainfall/Water Level	High
082162	* Rosewhite	Northern RWMP	Automatic	Rainfall/Water Level	Medium
582002	* Greta South	Northern RWMP	Automatic	Rainfall/Water Level	High
582004	* Docker Rd Bridge	Northern RWMP	Automatic	Water Level	High
583003	* Harris Lane	Northern RWMP	Automatic	Rainfall/Water Level	High
582014	* Rocky Point	Northern RWMP	Automatic	Rainfall/Water Level	High
583007	* Lake Buffalo D/S	Northern RWMP	Automatic	Rainfall/Water Level	High
583012	Mt Buggery	Northern RWMP	Automatic	Repeater	Medium
583148	* Bright (Ovens R)	Northern RWMP	Automatic	Rainfall/Water Level	High
405 – Goulburn River Basin					
588129	* Flowerdale	Northern RWMP	Automatic	Rainfall/Water Level	High
88119	* Taggerty	Northern RWMP	Automatic	Rainfall/Water Level	High
088125	* Devlin's Bridge	Northern RWMP	Automatic	Rainfall/Water Level	High
588002	* Yarck	Northern RWMP	Automatic	Rainfall/Water Level	Medium
407 – Loddon River Basin					
588018	* Muckleford North	Northern RWMP	Automatic	Rainfall/Water Level	Medium
415 – Wimmera River Basin					
579005	* Eversley	Northern RWMP	Automatic	Rainfall/Water Level	High
579010	* Navarre (Wattle Ck)	Northern RWMP	Automatic	Rainfall/Water Level	High
579008	* Stawell	Northern RWMP	Automatic	Rainfall/Water Level	High
579019	Wimmera	Wimmera Catchment Management Authority	Automatic	Base Station	High

Notes:

- * Site included in the Regional Water Monitoring Partnerships for maintenance
- Does not include daily rainfall, automatic weather stations and other Bureau synoptic stations.
- Gippsland RWMP: Gippsland Regional Water Monitoring Partnership
- South West RWMP: South West Regional Water Monitoring Partnership
- Northern RWMP: Northern Regional Water Monitoring Partnership

Schedule 9. List of flood warning related products issued by the Bureau in Victoria (warnings, watches, bulletins, river alerts)

Flood warnings

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV36110	Flood Warning for the Cann and Genoa	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36120	Flood Warning for the Snowy Flood Warning for the Buchan	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level
IDV36130	Flood Warning for the Tambo River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue when significant change occur	< minor flood level
IDV36140	Flood Warning for the Mitchell River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV36205	Flood Warning for the Gippsland Lakes	expected > minor flood level	**Minor**: Minimum once a day. Re-issue if significant changes occur. **Major**: Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level
IDV36210	Flood Warning for the Avon River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36220	Flood Warning for the Macalister River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36230	Flood Warning for the Thomson River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV36240	Flood Warning for the Latrobe River Flood Warning for the Tanjil River Flood Warning for the Moe River Flood Warning for the Morwell River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level
IDV36245	Flood Warning for the Traralgon Creek	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36300	Flood Warning for the Maribyrnong River Flood Warning for Deep Creek Flood Warning for Jacksons Creek	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36311	Flood Warning for the Yarra River upstream of Warrandyte Flood Warning for the Watts River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV36312	Flood Warning for the Yarra River downstream of Warrandyte	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36320	Flood Warning for the Dandenong Creek	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36330	Flood Warning for the Bunyip River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36340	Flood Warning for the Diamond Creek	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36350	Flood Warning for the Merri Creek	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV36370	Flood Warning for the Plenty River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36390	Flood Warning for the Werribee River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36400	Flood Warning for the Barwon River Flood Warning for the Leigh River Flood Warning for the Moorabool River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36520	Flood Warning for the Glenelg River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36510	Flood Warning for the Mt Emu Creek	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV36610	Flood Warning for the Mitta Mitta River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36620	Flood Warning for the Kiewa River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major:** Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level
IDV36630	Flood Warning for the Ovens River Flood Warning for the King River Flood Warning for the Buffalo River Flood Warning for the Fifteen Mile Creek	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDV36640	Flood Warning for the Broken River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV36641	Flood Warning for the Seven Creeks Flood Warning for the Castle Creek	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level
IDV36642	Flood Warning for the Broken Creek	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level
IDV36710	Flood Warning for the Goulburn River Flood Warning for the Yea River Flood Warning for the Sunday Creek Flood Warning for the Hughes Creek	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV36750	Flood Warning for the Campaspe River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level
IDV36810	Flood Warning for the Loddon River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level
IDV36820	Flood Warning for the Avoca River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV36830	Flood Warning for the Wimmera River	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level
IDV36910	Flood Warning for the Murray River U/S of Lake Hume	expected > minor flood level	**Minor**: Minimum once a day. Re-issue when significant changes occur. **Moderate and major**: Minimum twice a day. Re-issue if significant changes occur.	< minor flood level
IDN36629	Flood Warning for the Murray River D/S of Lake Hume	expected > minor flood level	Expected> minor – once a day. Re-issue if significant changes occur. Expected >major flood at Albury – 3 hourly. Update frequency may be reduced to every 2 to 3 days when the situation has stabilised and river levels are changing slowly.	< minor flood level

Notes:

- Flood warnings will be issued in accordance with the target warning lead times specified in the schedules. The target warning lead time is the minimum lead time that will be provided. Wherever possible, and particularly where confidence is high with regards to the onset of flooding, more lead time will be given. The Bureau will also give due consideration to the time of day in issuing warnings.

Flood watches

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV35010	Flood Watch 1	When flood impacts are possible in one or more catchment/area covered by Flood Watch service.	Minimum once a day. Update when significant changes occur.	Once either the risk of flooding has passed, or Flood Warning products have been issued for all catchments/areas covered by the Flood Watch.
IDV35020	Flood Watch 2	When flood impacts are possible in one or more catchment/area covered by Flood Watch service.	Minimum once a day. Update when significant changes occur.	Once either the risk of flooding has passed, or Flood Warning products have been issued for all catchments/areas covered by the Flood Watch.

Notes:

- Flood watch title (Flood Watch 1/Flood Watch 2) will be adjusted to reflect the catchments at risk of flooding by the particular weather event in question
- Areas covered by Flood Watch service in Victoria are available at: http://www.bom.gov.au/water/floods/image/BOM_Flood_Watch_Areas_map_Victoria.pdf

River alerts

Product ID	Product name	Initiating criteria	Updated	Finalising
NIL	NIL	NIL	NIL	NIL

Notes: No river alerts are currently issued in Victoria.

Rainfall alerts

Product ID	Product name	Initiating criteria	Updated	Finalising
NIL	NIL	NIL	NIL	NIL

Notes: No rainfall alerts are currently issued in Victoria.

River and rainfall bulletins (published on the web)

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV60078	Latest River Heights for the Mitchell, Tambo, Snowy, Cann, Genoa, Gippsland Lakes	None	Four times per hour	Never
IDV60079	Latest River Heights for the Latrobe, Thomson, Macalister, Avon, South Gippsland, Gippsland Lakes	None	Four times per hour	Never
IDV60201	Latest River Heights for the Werribee, Maribyrnong, Yarra, Dandenong, Bunyip	None	Four times per hour	Never
IDV60147	Latest River Heights for the Barwon, Moorabool, Leigh, Glenelg	None	Four times per hour	Never
IDV60148	Latest River Heights for the Wimmera, Murray-Mallee	None	Four times per hour	Never
IDV60149	Latest River Heights for the Campaspe, Loddon, Avoca, Murray-Riverina	None	Four times per hour	Never
IDV60150	Latest River Heights for the Goulburn, Broken, Murray - Riverina	None	Four times per hour	Never
IDV60151	Latest River Heights for the Upper Murray, Mitta Mitta, Kiewa, Ovens, King	None	Four times per hour	Never
IDV60163	One hourly rainfall bulletin for Mitchell, Tambo, Snowy, Cann, Genoa	None	Four times per hour	Never
IDV60162	One hourly rainfall bulletin for Latrobe, Thomson, Macalister, Avon, South Gippsland	None	Four times per hour	Never
IDV60161	One hourly rainfall bulletin for Werribee, Maribyrnong, Yarra, Dandenong, Bunyip	None	Four times per hour	Never
IDV60160	One hourly rainfall bulletin for Barwon, Moorabool, Leigh, Hovells Creek, Corangamite, Otway Coast	None	Four times per hour	Never
IDV60159	One hourly rainfall bulletin for Glenelg, Wannon, Portland Coast, Hopkins	None	Four times per hour	Never
IDV60155	One hourly rainfall bulletin for Wimmera, Murray - Mallee	None	Four times per hour	Never
IDV60156	One hourly rainfall bulletin for Campaspe, Loddon, Avoca	None	Four times per hour	Never
IDV60157	One hourly rainfall bulletin for Goulburn, Broken	None	Four times per hour	Never
IDV60158	One hourly rainfall bulletin for Upper Murray, Mitta Mitta, Kiewa, Ovens and King	None	Four times per hour	Never
IDV60172	Three hourly rainfall bulletin for Mitchell, Tambo, Snowy, Cann, Genoa	None	Four times per hour	Never

Product ID	Product name	Initiating criteria	Updated	Finalising
IDV60171	Three hourly rainfall bulletin for Latrobe, Thomson, Macalister, Avon, South Gippsland	None	Four times per hour	Never
IDV60170	Three hourly rainfall bulletin for Werribee, Maribyrnong, Yarra, Dandenong, Bunyip	None	Four times per hour	Never
IDV60169	Three hourly rainfall bulletin for Barwon, Moorabool, Leigh, Hovells Creek, Corangamite, Otway Coast	None	Four times per hour	Never
IDV60168	Three hourly rainfall bulletin for Glenelg, Wannon, Portland Coast, Hopkins	None	Four times per hour	Never
IDV60164	Three hourly rainfall bulletin for Wimmera, Murray - Mallee	None	Four times per hour	Never
IDV60165	Three hourly rainfall bulletin for Campaspe, Loddon, Avoca	None	Four times per hour	Never
IDV60166	Three hourly rainfall bulletin for Goulburn, Broken	None	Four times per hour	Never
IDV60167	Three hourly rainfall bulletin for Upper Murray, Mitta Mitta, Kiewa, Ovens and King	None	Four times per hour	Never
IDV60181	Daily rainfall bulletin for Mitchell, Tambo, Snowy, Cann, Genoa	None	Four times per hour	Never
IDV60180	Daily rainfall bulletin for Latrobe, Thomson, Macalister, Avon, South Gippsland	None	Four times per hour	Never
IDV60179	Daily rainfall bulletin for Werribee, Maribyrnong, Yarra, Dandenong, Bunyip	None	Four times per hour	Never
IDV60178	Daily rainfall bulletin for Barwon, Moorabool, Leigh, Hovells Creek, Corangamite, Otway Coast	None	Four times per hour	Never
IDV60177	Daily rainfall bulletin for Glenelg, Wannon, Portland Coast, Hopkins	None	Four times per hour	Never
IDV60173	Daily rainfall bulletin for Wimmera, Murray - Mallee	None	Four times per hour	Never
IDV60174	Daily rainfall bulletin for Campaspe, Loddon, Avoca	None	Four times per hour	Never
IDV60175	Daily rainfall bulletin for Goulburn, Broken	None	Four times per hour	Never
IDV60176	Daily rainfall bulletin for Upper Murray, Mitta Mitta, Kiewa, Ovens and King	None	Four times per hour	Never
IDV60003	Daily Rainfall bulletin for Victoria	None	Daily	Never
IDV60004	Weekly Rainfall bulletin for Victoria	None	Weekly	Never

The Bureau of Meteorology

Schedule 10. List of changes to this Service Level Specification

Version	Date	Update
1.0	05/08/2014	Version 1.0 signed
2.0	September 2015	Clauses 1.3 and 1.4 rewording for clarification.
		Additional sentence to clause 1.6 highlighting supplementary services
		Clause 2.1 deleted to remove repetition.
		Clauses 3.1 and 3.2 reworded for clarification.
		Clauses 3.3.1, 3.3.2 and 3.3.3 in the V1 consolidated into new clause 3.3.1 in the V2.
		Clause 3.3.4 in the V1 replaced with new clause 3.3.2 in the V2. Definition of priority level for stations in clause 3.3.2 and Table 1 which are also new additions. Addition of priorities to stations in schedules 2-4 and 7-9.
		Clause 3.7.2 reworded for clarification.
		Clause 3.8 – revised including: Clause 3.8.1 reworded to clarify criteria for issuing warnings. Clause 3.8.2 and 3.8.3 in the V1 consolidated into new clause 3.8.2 in the V2 for clarification. Quantitative and Qualitative clauses better described (3.8.3 and 3.8.4)
		Clause 3.10.12 reworded to clarify standard and supplementary services associated with Enviromon.
		Clause 3.11.3 and 3.11.4 in the V1 consolidated into clause 3.11.3 in the V2.
		Clause 3.12.4 added
		Schedules 2-4 and 7-9 edits to some station numbers and names, and addition of few sites.
		Snowy River at Basin Creek added as prediction location to Schedule 2a and removed from Schedule 3 information location.
		Schedule 2b – added AWRC numbers
		Schedule 6 updated.
3.0	January 2017	Clause 3.2 - minor wording change to opening sentence and one of the dot points.
		Clause 3.7.1 - change of wording from 'likely' to 'possible' at end of first sentence.

Version	Date	Update
		Clause 3.9.3.4 - new paragraph on use of social media for communicating flood watches and warnings.
		Clause 3.10.1 - deleted 'then' from second sentence.
		Clause 3.10.4 – deleted 'Their relative roles, responsibilities and' from the start of the third sentence.
		Clause 3.10.12 - minor wording change to second sentence.
		Clause 3.12 – minor wording change to title.
		Clause 3.12.4 - minor wording change to first sentence.
		Clause 5.2 – updated reference to the Victorian Floodplain Management Strategy 2016.
		Schedules (general) – updated name of NSW Office of Water to Water NSW; hyphen added to Goulburn-Murray Water's name in a few cases to be consistent through the schedules.
		Schedule 1 - membership for the Catchment Management Authorities now reads 'Catchment Management Authorities – rotating membership'. Updated the name of Institute of Public Works Engineering Australia to Institute of Public Works Engineering Australasia (Victoria Division).
3.0	January 2017	<u>Schedule 2a</u> Snowy River Basin: • Name change 'Bombala Town' to 'Bombala'. • Basin Creek target warning lead time reduced to 3 hours – often difficult to achieve more than this when highest rainfall is in the mid to lower parts of the catchment. • Corrected typo for Orbost trigger height (from 4.0 to 4.2). Campaspe River Basin: • Change Rochester Town station type to 'Automatic' and clarify prediction type as 'Quantitative (peak only)'; also changed AWRC number to 406283 and station operator to 'Northern RWMP'. Levels of service to be defined further during 2017 as part of current modelling work for Campaspe Shire. Wimmera River Basin: • Name change 'Glenorchy Weir TG' to 'Glenorchy'. • Confirmed prediction type for Horsham and U/S Dimboola as Quantitative and target warning lead time as 9 hours and 12 hours respectively. Clarified prediction type for various locations as Quantitative (peak only):

Version	Date	Update
		• Bairnsdale (Mitchell Basin) • Casterton (Glenelg Basin) • Nathalia (Broken Basin) • Kerang (Loddon Basin) • Charlton Town and Quambatook (Avoca Basin)
		<u>Schedule 2c</u> • Thomson Basin - Lake Glenmaggie D/S - flood class levels shown in flows as well as levels. • Upper Murray Basin - Khancoban Pondage – clarified minor flood class level as 114 m3/s (113m3/s is still classed as below minor). • Loddon Basin - name change 'Cairn Curran Res TG' to 'Cairn Curran Res D/S' Note added at the bottom to highlight that where flood class levels are expressed in terms of both flows and levels (e.g. Lake Glenmaggie D/S), the flows are the point of truth and will be used to issue warnings for that site. Levels are approximate and will change from time to time depending on the rating relationship.
		Schedule 3 – Yea R at Yea (Goulburn Basin) is now an automatic gauge. New flood class levels tbc during 2017 as the gauge has also moved. Note added to the bottom to reflect this.
		Schedule 4 – added Rosedale Anabranch (Latrobe Basin) and McNeils Bridge (Wimmera Basin).
		Schedule 5 - change of company name 'Thiess Services' to 'Ventia'.
		Schedule 6 - updated signed date for Gippsland Ports DSA to June 2016.
3.0	January 2017	Schedule 7 - has been changed to Schedule 7a and updated to include Bureau Automatic Weather Stations (AWS), and 2 new schedules have been added: • Schedule 7b: List of rainfall sites maintained by external agencies • Schedule 7c: List of Event-Reporting Radio Telemetry Systems (ERRTS) repeater sites The new schedules (7b, 7c) and updates to schedule 7a have been added to ensure the SLS reflects all sites which are used to provide the flood forecasting and warning service for Victoria.
3.1	April 2018	<u>Schedule 2a</u> • Upgraded information locations at Chandlers Creek, Weeragua and The Gorge in East Gippsland to qualitative service with short lead time (0-3 hours)

Version	Date	Update
		• Chandlers Creek and Weeragua changed station type to Manual (can only connect via SMS). • Added new qualitative service for the Tambo River at D/S Ramrod Creek (FCLs 4.1m, 6.9 m, 10.0m, 3 hours lead time to exceeding minor). • Bairnsdale changed station type from Manual to Automatic and prediction type to full quantitative instead of quantitative (peak only) • Rochester changed prediction type to full quantitative instead of quantitative (peak only) • Kerang changed station type to Manual/PALS (previously listed as Manual only) • Charlton Town FCL changed - new (4.0m, 5.9m, 7.5m), previous (3.5m, 5.0m, 7.0m). Changed station type to Manual/PALS (previously listed as Manual only.
		Schedule 3 • Removed Chandlers Creek, Weeragua and The Gorge in East Gippsland – these are now forecast locations in Schedule 2a • Colemans changed station type to Manual (telemetry hasn't worked since 2016). • Yawong Weir FCL changed – new (3.0m, 5.0m, 5.3m), previous (2.3m, 3.4m, 5.0m) • Quantong Bridge FCL changed – new (5.7m, 7.0m, 7.4m), previous (4.5m, 5.4m, 5.9m).
		Schedule 4 • Cann River changed station type from Manual to Automatic • Added new site in East Gippsland – U/S of Pumphouse (Bemm River) • Sardine Ck (Brodribb River) – changed station operator from East Gippsland Water to Gippsland RWMP. • Removed D/S Ramrod Ck (now a forecast location in Schedule 2a) • Removed Wuk Wuk Bridge (site has not worked since 2014) • Renamed Bulmers Lane to Lindenow (Calulu) • Added 2 new sites in Glenelg Basin – Harrow and Sandford. • Added new site in Broken Basin – Numurkah (Melville Street)
3.1	April 2018	Schedule 5 - Removed GMW Lake Buffalo Enviromon Base Station (replaced by SCADA January 2018)
		Schedule 6 - Southern Rural Water DSA updated June 2017 (previous July 2014)
		Schedule 7a - Removed Bairnsdale water level site (now in Schedule 9).

Version	Date	Update
		Schedule 7b - Rockton – changed site priority to High (site to be upgraded as part of ERRTS extension project and will be the only raingauge above the forecast sites in Cann/Genoa).
		Schedule 9 - Added Bairnsdale water level gauge.
		Schedule 10 • Added Flood Warning for the Tambo River (IDV36130) • Removed 8 superseded flood watch products (IDV35100 to IDV35800) and replaced them with the 2 new flood watch products, Flood Watch 1 and Flood Watch 2 (IDV35010 and IDV35020). • Added explanatory note for Flood Watch and a link to flood watch areas map on the Bureau's website.
3.2	August 2020	Clauses 6.1.4 and 6.1.5 updated to reflect the new Chair of the Flood Warning Consultative Committee under the Bureau's amended structure and also the new signatories who sign off on the document on behalf of the FWCC and the CEO and Director of Meteorology.
		Schedule 1 – Added Southern Rural Water and Emergency Management Victoria to the list of members of the VFWCC. Also deleted Inspector General Emergency Management from the list.
		Schedule 2a • Casterton (Glenelg River) changed station type from Manual to Automatic • Nathalia (Broken Creek) minor FCL changed from 1.3m to 1.5m • Charlton Town (Avoca River) changed station type from Manual/PALS to Automatic. Also corrected AWRC number to 408219 • Mildura HG AHD (Murray River) – AWRC site 414210 (manual) replaced with AWRC site 414216 (automatic)
		Schedule 2b • Chandler Highway Fairfield (Yarra River) renamed to Alphington • Ballan (Werribee River) FCLs changed – new (1.2m, 2.1m, 3.0m); previous (1.4m, 2.3m, 3.2m) • Werribee (Cottrell St Ford) moderate and major FCLs changed – new (4.5m, 5.4m); previous (3.1m, 6.0m) • Melton Res TG – add FCLs in flows alongside existing levels – minor 1.5m, 4000ML/d; moderate 5.1m, 35000ML/d; major 6.4m, 50000ML/d
3.2		Schedule 3

Version	Date	Update
	August 2020	• Yea River at Yea site (manual – AWRC 405313) replaced by Yea River at Goulburn Valley Water Pumping Station (automatic – AWRC 405325) – FCLs still to be determined • Redesdale (Campaspe River) – FCLs reviewed and updated – now just minor FCL at 5.3m, no moderate or major; previous (2.0m, 4.0m, 5.7m)
		Schedule 4 AWRC site 221224 – correct Bureau ID to 584029 and site name to U/S Cann River Offtake (Cann R) Removed Rockton (Genoa River) – gauge dismantled as part of ERRTS extension project Otway Coast Basin – 2 new sites added – Curdie and Peterborough Hopkins River Basin – 2 new sites added – Lake Burrumbeet and Guthries Bridge Broken River Basin – 5 new sites added – School Rd, Larissa Rd, Sellicks Rd, Katamatite East, Naring Hall Rd Numurkah (Broken Ck) changed station type from Automatic/PALS to Automatic Corrected spelling for Gerrans Bridge (Jamieson River) Wimmera River Basin – 1 new site added - Banyena
		Schedule 5 – removed 3 Enviromon base stations for Ventia (Wangaratta, Horsham and Maffra)
		Schedule 6 – updated DSA details for Southern Rural Water – updated agreement signed October 2019
		Schedule 7b • Removed Rockton (Genoa River) – gauge dismantled as part of ERRTS extension project • Added Dookie Water Storage, Goorambat and Katamatite East (Broken River Basin)
		Schedule 9 - removed Rockton (Genoa River) – gauge dismantled as part of ERRTS extension project
		Schedule 10 – web link to flood watch areas map updated
3.3	April 2022	Schedule 2a • Chandlers Ck (East Branch) changed station type from Manual to Automatic • Weeragua (West Branch) changed station type from Manual to Automatic
		Schedule 2b

Version	Date	Update
		• Healesville (Watts River) minor and moderate flood class levels changed upon request from Melbourne Water and supported by VicSES – new (2.8m, 3.2m); previous (2.6m, 3.1m)
		<u>Schedule 2c</u> • Lake Glenmaggie D/S minor and major flood class levels changed (flows remained the same) – new (2.6m, 5.3m); previous (2.4m, 5.4m)
		<u>Schedule 3</u> • Colemans (Mitta Mitta River) changed station type from Manual to Automatic
3.3	April 2022	<u>Schedule 4</u> • East Gippsland Basin – 1 new site added – Genoa R at Wangarabell • South Gippsland Basin – 10 new sites added – Tarwin River at Meeniyan, Tarra River at Tarra Weir Offtake, Tarra River at Yarram, Powlett R D/S Foster Creek Junction, Little Bass R at Poowong, Coalition Creek, Bellview Creek U/S Bellview Reservoir, Ruby Creek at Arawata, Stony Creek at Meeniyan, Powlett R Mouth Of Powlett Rd • Portland Coast Basin – 2 new sites added – Moyne R at Willatook, Moyne R at Gipps St Bridge (Port Fairy) • Wimmera River Basin – 2 new sites added – Richardson R at Carrs Plain, Donald (Richardson River)
		<u>Schedule 7a</u> • Millicent Coast Basin – 1 new site added – Booroopki Comparison • Mallee Basin – 2 new sites added – Tutye (Bunurouk) Comparison, Yanac North Comparison • Wimmera River Basin – 5 new sites added – Rainbow Radar, Gerang Gerung (Comparison), Hillview Nypo, Marlbed Comparison, Warranooke (Glenorchy) Comparison
3.3	April 2022	<u>Schedule 7b</u> • East Gippsland Basin – 4 new sites added – Club Terrace, Buldah, Mt Bemm (Mt Cann) FT, Mt Waldron FT • Tambo River Basin – 1 new site added – Brookville • Portland Coast Basin – 2 new sites added – Gerrigerup, Willatook • Avoca River Basin – 2 new sites added – Redbank Reservoir, Bung Bong

Version	Date	Update
		Schedule 7c • East Gippsland Basin – 2 new sites added – Mt Bemm (Mt Cann) FT, Mt Waldron FT • Latrobe Basin – 2 sites added – Jeeralang North, Murderers Hill • Werribee Basin – 1 site added – Mount Cottrell
3.4	October 2022	Schedule 2a • Hopkins River Basin - Skipton added as a forecast location and gauge priority upgraded to high • Mildura HG station ID number adjusted Schedule 4 • Hopkins River Basin – gauge priority changed for new Skipton flood warning service – Mena Park, Guthries Bridge. Skipton removed from Schedule 4 Schedule 7a • Hopkins River Basin – gauge priority changed for new Skipton flood warning service – Ballarat Aerodrome Schedule 7b • Hopkins River Basin – gauge priority changed for new Skipton flood warning service – Mena Park • Latrobe River Basin – Callignee North rain gauge replaced by Traralgon South Township rain gauge. Schedule 10 • IDV36510 Flood Warning service for Mt Emu Creek added.
3.5	November 2023	Schedule 2a • Genoa River at The Gorge; Minor, Moderate, Major FCLs changed to 1.9 m, 2.2 m, 4.0 m (from 2.2 m, 2.9 m, 3.5 m), lead time changed to 3 hours (from 0-3 hours). • Buchan River at Buchan - Minor, Moderate, Major FCLs changed to 3.7 m, 4.9 m, 5.3 m (from 2.5 m, 3.5 m, 4.0 m), lead time changed to 6 hours (from 3 hours). • Snowy River at Jarrahmond - Minor, Moderate, Major FCLs changed to 5.7 m, 7.4 m, 8.9 m (from 4.1 m, 6.2 m, 7.4 m).
3.5	November 2023	• Mitchell River at Bairnsdale - Minor, Moderate, Major FCLs changed to 5.6 m, 6.5 m, 6.8 m, (from 4.0 m, 5.5 m, 6.5 m).

Version	Date	Update
		• Snowy River at McKillops Bridge – Minor flood class level removed, trigger height changed to 6.0 m, lead time 6 hours to moderate level (6.0 m). • Snowy River at Orbost – Forecast location removed. <u>Schedule 4</u> • Snowy River at Orbost – Data location added. • Avoca River Basin – 1 site added – Logan. <u>Schedule 7b</u> • Avoca River Basin – 2 sites added - Avoca WTP and St Arnaud (Howitt St) <u>Schedule 10</u> • Product ID IDV36510 corrected. • Text clarified for reduction of flood warning frequency and added to catchments where river levels can change slowly when the situation has stabilised.
4.0	September 2024	<u>Section 7</u> • Signatories updated to reflect staff changes. <u>Schedule 1</u> • DELWP changed to DEECA. <u>Schedule 2a</u> • Snowy River at Jarrahmond – Minor FCL reverted to 4.1 m, from 5.7 m. <u>Schedule 3</u> • Yea GV Water PS (Yea R) – FCLs updated: Minor 2.4, Moderate 2.7, Major 3.1. <u>Schedule 6</u> • DSAs removed, schedule 6 no longer in use. <u>Schedule 4</u> • Added 4 river data locations in Goulburn catchment: Murrindindi above Colwells, Rubicon, Old Killingworth Rd Yea, Fairview Rd Bridge Kerrisdale. <u>Schedule 7b</u> • 9 rainfall sites added in Goulburn catchment.

Version	Date	Update
4.1	December 2024	Schedule 2b • Yarra Glen (Yarra R) FCLs changed – new (4.1m, 4.5m, 5.0m); previous (4.1m 4.6m, 5.0m) • Ballan (Werribee River) FCLs changed – new (1.6m, 2.1m, 3.0m); previous (1.2m, 2.1m, 3.0m)
4.2	December 2025	Schedule 2a • Richardson River at Donald Town added as forecast location. Schedule 4 and 7b • Donald Town (Richardson River) removed as data location. • Changed gauge priority of rainfall and river data locations in the Wimmera catchment (Rich Avon Weir, Banyena, Carrs Plains, Wimmera Hwy) from Low to Medium or High for new warning service at Donald. Schedule 4: River data locations • Merrimans Creek at Seaspray pump station river data location AWRC number and name updated. Schedule 10: List of flood warning related products issued by the Bureau in Victoria • Flood Warnings: Removal of flood warning product IDV36050 Victorian Flood Warning Summary. • Rainfall and River Bulletins: Removal of product IDV60154 Latest River Heights for the Victorian Rivers. Section 7 & Schedule 11 • Names of Bureau staff removed. Section 3.9 • Reference to fax removed. • Change from "Tweets" to social media. Section 3.10 • Removal of data agreement information, to align with removal of • Schedule 6 in September 2024 update.
4.3	June 2026	Template • New template, including new numbering format Cover

Version	Date	Update
		• New cover image. Section 1 Introduction • Update to introduction including new figure. Section 1.3 • Reference to Enviromon being discontinued. • Change noting compliance with fatigue management guidelines for all Bureau personnel. • Terminology change from 'crisis coordination centre' to 'situation room.' Glossary • Update to many terms in the glossary. Appendix B • References updated As part of the transition of flood warning services from Melbourne Water to the Bureau changes to many Schedules were made, details as follows; Schedule 2a. Forecast locations and levels of service • Added 25 new forecast locations in the Bunyip, Dandenong, Yarra, Maribyrnong and Werribee catchments. Schedule 2b. Forecast locations where predictions are provided by Melbourne Water - Removed Schedule 2b *(formerly 2c)*. Forecast locations at tail water gauges or immediately downstream of storages where predictions are provided by storage operators • Added 2 new sites; Jacksons Creek at Rosslynne Reservoir (HG) and Werribee River at Melton Reservoir (TW) Schedule 4. River data locations • Added new locations in the Bunyip, Dandenong, Yarra, Maribyrnong and Werribee catchments. Schedule 6. Not in use – removed. Schedule 6b *(formerly 7b)*. List of rainfall sites maintained by external agencies • Added new locations in the Bunyip, Dandenong, Yarra, Maribyrnong and Werribee catchments. Schedule 6c *(formerly 7c)*. List of Event-Reporting Radio Telemetry Systems (ERRTS) repeater sites

Version	Date	Update
		• Added new location at West of England Fire Tower in the Avoca catchment. Schedule 9 *(formerly 10)*. List of flood warning related products issued by the Bureau in Victoria (warnings, watches, bulletins, river alerts) • Removed IDV36310 – Flood Warning for the Yarra River, Flood Warning for the Watts River • Removed IDV36360 – Flood Warning for the Kororoit Creek. • Added IDV36311 - Flood Warning for the Yarra River upstream of Warrandyte, Flood Warning for the Watts River • Added IDV36321 - Flood Warning for the Yarra River downstream of Warrandyte

Appendix A. Glossary of terms

Technical Guide: A Technical Guide exists for each Flood Warning Product and provides guidance specific to a catchment to help develop forecasting and warning products.

Flood warning: Flood Warnings are issued when flooding at a forecast location is expected to reach and/or exceed a flood classification (or has already done so). A Flood Warning may also be issued when a flood classification has been reached or exceeded, in one or more locations (including at multiple information locations), or as specified in the service level specification. Flood Warnings are updated at an appropriate frequency to the catchment, flood severity, and flood phase.

Flood watch: A Flood Watch provides early advice of increased flood risk over an area up to four days before the onset of possible flooding. A Flood Watch is issued when hydrological and meteorological guidance indicates that at least minor flooding is possible at forecast locations and/or when guidance indicates an increased risk of flooding causing impacts, in consultation with emergency management agencies. The Flood Watch product is provided for all catchments in Victoria.

IGA Intergovernmental Agreement on the provision of Bureau of Meteorology Hazard Services to States and Territories formalises and standardises the services provided to State and Territory Emergency Services Agencies and clarifies responsibilities between all levels of government for Flood management, Fire Weather management and management of Extreme Weather and Hazard Impact Events.

National Emergency Management Agency: The Australian Government National Emergency Management Agency has been designed to connect relevant Australian Government, State and Territory agencies to centralise the coordination and management of the national-level response during complex national emergencies, developing a single, timely and consistent picture or understanding of a crisis, its implications and the national capacity to respond.

National Flood Warning Arrangements: The National Arrangements outline the general roles and responsibilities of each level of Government in providing and supporting an effective flood warning service and includes separate chapters describing the specific arrangements and agency roles that apply in each jurisdiction.

Protective behaviour: generating appropriate and timely actions and behaviours from the agencies involved and from the threatened community.

Severe Thunderstorm: A thunderstorm is characterised by sudden electrical discharges, each manifested by a flash of light (lightning) and a sharp rumbling sound. Thunderstorms are associated with convective clouds (cumulonimbus) and are usually accompanied by precipitation. Thunderstorms are often short-lived and impact on only a small area. Severe thunderstorms may last for an hour or more and can have a more widespread impact.

A severe thunderstorm will also have one or more of the following phenomena:

- Tornado
- Wind gust of 90 km/h (49 knots) or more

- Hailstones with diameter of 2 cm or larger
- Very heavy rain sufficient to cause flash flooding

Weather warnings: Weather warnings are messages sent out by the Bureau to warn the community of potentially hazardous or dangerous weather conditions. Such warnings include but are not limited to: road weather alerts, severe thunderstorm warnings, severe weather warnings for heavy rain, strong or gale force winds, marine wind warnings, warnings for sheep graziers and frost warnings. More information on weather terms is given in the Bureau's glossary.

The components of the Total Flood Warning System

Based on the Manual 21 Australian Emergency Manual Series, Australian Government 2009 (see the Manual for more details).

- **Communication:** disseminating warning information in a timely fashion to people and organisations likely to be affected by the flood (see Chapter 6).
- **Interpretation:** identifying in advance the impacts of the predicted flood levels on communities at risk (see Chapter 4).
- **Message construction:** devising the content of the message which will warn people of impending flooding (see Chapter 5).
- **Monitoring and prediction:** detecting environmental conditions that lead to flooding, and predicting river levels during the flood (see Chapter 3),
- **Review:** examining the various aspects of the system with a view to improving its performance (see Chapter 7).

Flood classifications: The classification of minor, moderate and major flood levels at key river height stations is based upon the effect of flooding for some distance upstream and downstream of that station. These levels are determined using the following descriptive categories of flooding, historical data or relevant local information.

The process for establishing flood class levels involves determining local flood effects, review and endorsement by relevant stakeholders and passing recommendations to the Bureau for inclusion in forecast and warning procedures. The process for establishment of flood class levels specific to each State and Territory is documented in the National Arrangements.

- **Minor flooding** – Causes inconvenience. Low-lying areas next to watercourses are inundated. Minor roads may be closed and low-level bridges submerged. In urban areas inundation may affect some backyards and buildings below the floor level as well as bicycle and pedestrian paths. In rural areas removal of stock and equipment may be required.
- **Moderate flooding** – In addition to the above, the area of inundation is more substantial. Main traffic routes may be affected. Some buildings may be affected above the floor level. Evacuation of flood affected areas may be required. In rural areas removal of stock is required.
- **Major flooding** – In addition to the above, extensive rural areas and/or urban areas are inundated. Many buildings may be affected above the floor level. Properties and towns are likely to be isolated and major rail and traffic routes closed. Evacuation of flood affected areas may be required. Utility services may be impacted.

Appendix B. References

1. Emergency Management Australia 2009, *Flood Warning Manual,* Series 21.

2. Bureau of Meteorology 2013, *National Flood Warning Arrangements.*

3. Bureau of Meteorology Hazards Services Forum 2018, *Intergovernmental Agreement on The Provision of Bureau of Meteorology Hazard Services to the States and Territories.*