

# Far West Regional Emergency Management Plan February 2021

**Parts 1 - 4** 



# Part 1 – Administration

# Authority

The Far West Regional Emergency Management Plan (EMPLAN) has been prepared by the Far West Regional Emergency Management Committee in compliance with the State Emergency & Rescue Management Act 1989.

APPROVED

Regional Emergency Operations Controller Far West Regional Emergency Management Committee Chair

Dated: 1 March 2021

ENDORSED

Endorsed by NSW SEMC at Meeting 120 Chair State Emergency Management Committee

Dated: 18 March 2021

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# Purpose

Details arrangements for, prevention of, preparation for, response to and recovery from emergencies within the Emergency Management Region covered by this plan.

It encompasses arrangements for:

- emergencies controlled by combat agencies;
- emergencies controlled by combat agencies and supported by the Regional Emergency Operations Controller (REOCON);
- emergency operations for which there is no combat agency;
- circumstances where a combat agency has passed control to the REOCON; and,
- demobilisation and transition of control from response to recovery.

# **Objectives**

The objectives of this plan are to:

- support Local Emergency Management Plans (EMPLANs) and augment them when required;
- identify trigger points for regional level activation, escalation and demobilisation;
- define participating organisation and Functional Area roles and responsibilities in preparation for, response to and recovery from emergencies;
- set out the control, co-ordination, support and liaison arrangements at the Regional level;
- detail activation and alerting arrangements for involved agencies at the Regional level; and
- detail arrangements for the acquisition and co-ordination of resources at the Regional level.

# Scope

The plan describes the arrangements at Regional level to prevent, prepare for, respond to and recover from emergencies and also provides policy direction for the preparation of Sub Plans and Supporting Plans. Further:

- This plan relies on effective implementation of the Governance framework for Emergency Management;
- Arrangements detailed in this plan are based on the assumption that the resources upon which the plan relies are available when required; and
- The effectiveness of arrangements detailed in this plan are dependent upon all involved agencies preparing, testing and maintaining appropriate internal instructions, and/or standing operating procedures.

# **Principles**

The following principles are applied in this plan:

- a) The Emergency Risk Management (ERM) process is to be used as the basis for emergency planning in New South Wales. This methodical approach to the planning process is to be applied by Emergency Management Committees at all levels.
- b) Responsibility for preparation, response and recovery rests initially at Local level. If Local agencies and available resources are not sufficient they are augmented by those at Regional level.
- c) Control of emergency response and recovery operations is conducted at the lowest effective level.
- d) Agencies may deploy their own resources from their own service from outside the affected Region if they are needed.
- e) The Regional Emergency Operations Controller (REOCON) is responsible, when requested by a combat agency, to co-ordinate the provision of resources support. EOCONs would not normally assume control from a combat agency unless the situation can no longer be contained. Where

necessary, this should only be done after consultation with the State Emergency Operations Controller (SEOCON) and agreement of the combat agency and the appropriate level of control.

- f) Emergency preparation, response and recovery operations should be conducted with all agencies carrying out their normal functions wherever possible.
- g) Prevention measures remain the responsibility of authorities/agencies charged by statute with the responsibility.

# Activation, Escalation & Demobilisation

There are a number of Activation, Escalation and Demobilisation triggers that initiate and conclude this Regional EMPLAN or elevation of the emergency to a State level.

# ACTIVATION TRIGGERS:

## Support

- Designated Combat Agency has a regional level plan for emergency response;
- Whenever there is an impending or unforeseen emergency operation and Regional level support resources may be required;

Control

- Where there is no designated Combat Agency and a regional level response is required;
- Where it is necessary to coordinate two or more local level operations which are controlled by Emergency Operations Controllers;
- When the REOCON considers it necessary;
- When directed by the SEOCON to take control of an emergency response.

## **ESCALATION TRIGGERS:**

## Local to Regional

- When an emergency grows beyond the capability of a Local EOC;
- When the emergency crosses two or more local emergency management boundaries and the change in control level may improve the situation;
- When significant Political, Environmental, Social, Technological or Economic impacts are foreseen;
- When directed by the SEOCON.

## Regional to State

- When an emergency grows beyond the capability of a Regional EOC;
- When the emergency crosses two or more Regional emergency management boundaries and the change in control level may improve the situation;
- When significant Political, Environmental, Social, Technological or Economic impacts are foreseen;
- When directed by the SEOCON.

## **Demobilisation Triggers:**

- When it is determined that the incident has scaled back to the extent a regional level response is no longer required;
- When the response has transitioned into a longer-term recovery process and an appropriate handover to a recovery coordinator or committee occurs;
- When it is determined that no further control or support is required for the emergency.

**<u>Note</u>**: The REMC may identify specific Regional triggers for activation, escalation and demobilisation beyond those listed above.

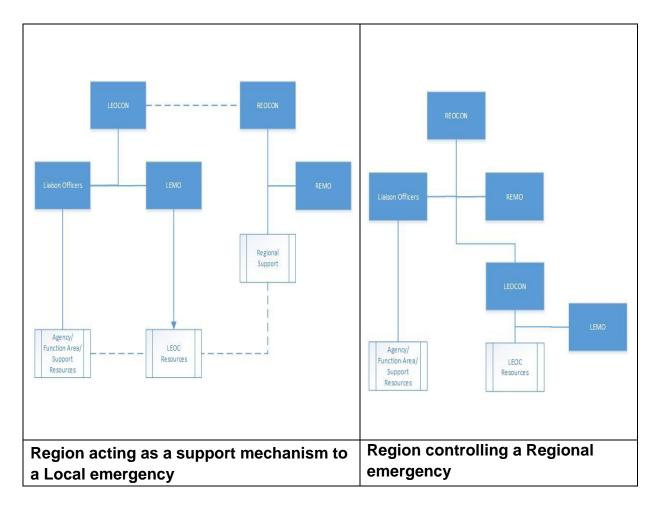
# **Control, Command and Coordination Structure**

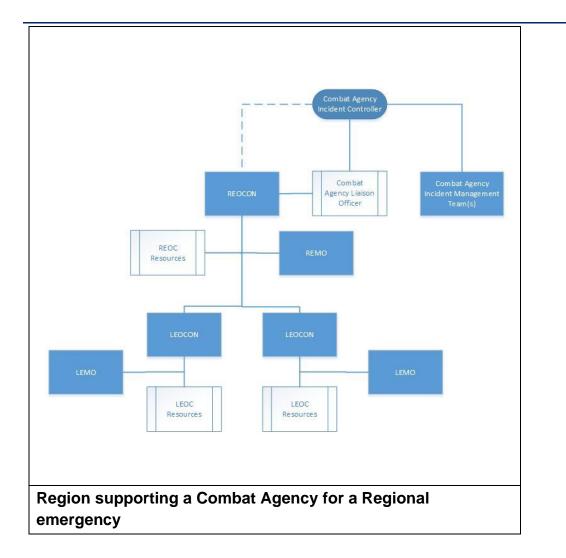
The Control, Command and Coordination (CCC) structure will vary according to the role that the Regional level response is taking. There are three standard structures that typically arise according to the role taken by the REOCON and REMC:

- 1. The Region acting as a support mechanism to a Local emergency;
- 2. The Region supporting a Combat Agency for a Regional emergency ;
- 3. The Region controlling a Regional emergency.

A solid line indicates a direct link and a dotted line represents an information link.

<u>Note:</u> the specific CCC structure can vary according to the type of emergency and should be confirmed on each occasion between stakeholders with the standard arrangements considered.





# **Test and Review Process**

The Far West Regional Emergency Management Committee (REMC) will review this Plan every three (3) years as a part of the continuous improvement cycle, or following any:

- Significant Regional change such as boundary changes, Agency/Functional Area/Supporting organisation changes, facilities, etc;
- activation of the Plan in response to an emergency;
- legislative changes affecting the Plan;
- reviews, inquiries and lessons learned that are relevant to the purpose of the plan;
- exercises conducted to test all or part of the Plan.

# Part 2 – Context & Risk Assessment

# Annexure A – Regional Profile

# General

The Far West Emergency Management Region covers 314,486 Km<sup>2</sup> or 39% of New South Wales. The Region stretches from the vast pastoral areas of Brewarrina, through the historically significant mining centres of Cobar and Broken Hill, to the Murray River horticultural townships of Wentworth and Balranald.

The Region is characterised by sparse population and great distances between cities, towns and settlements. Most of the Region's Local Government Areas are larger than many of the Emergency Management Regions in the state but with generally far fewer inhabitants or resources.

The Region includes the Local Government Areas of Balranald, Bogan, Bourke, Brewarrina, Broken Hill, Central Darling, Cobar, Wentworth as well as the Unincorporated Area of NSW.

The Far West Region's major centre is Broken Hill with 43% of the population. This is also the smallest local government area at only 170 Km<sup>2</sup> which equates to little more than the external boundary of the city. Broken Hill is only 50km from the South Australian border at the western end of the Region. Broken Hill is also a central hub for many State Agencies in the Region.

The Unincorporated Area, which covers 30% of the Region, has no local government control. The area has the small settlements of Tibooburra, Milparinka, Packsaddle and Silverton.

The whole Region challenges all emergency responses with large distances, small populations, resource limitations, a large unsealed road network, limited communications infrastructure and climatic extremes.

Most Rescue Agencies have representation in the Region although smaller communities rely on the volunteer agencies of SES, RFS, and VRA who often struggle to retain operational members.

# **Boundaries**

## STATE BORDERS.

The Region is bounded by the River Murray and Victorian Border in the south, the South Australia border in the west, the Queensland Border in the north, and the eastern extremities of the Brewarrina, Bogan, Cobar, Central Darling and Balranald LGA's.

## TIME ZONES.

The Region is unique in NSW as having 2 time zones. Whilst the majority of the Region operates under Eastern Standard Time, Broken Hill operates under Central Standard Time. This time zone includes a 50km radius around Broken Hill. This is an unexpected revelation for many agencies and organisations and may initially pose minor confusion with the management of incidents or emergencies for Region level resources. This is especially conspicuous in agency's communications and information technology systems which usually run on Eastern Standard Time.

## EMERGENCY SERVICE ORGANISATION BOUNDARIES.

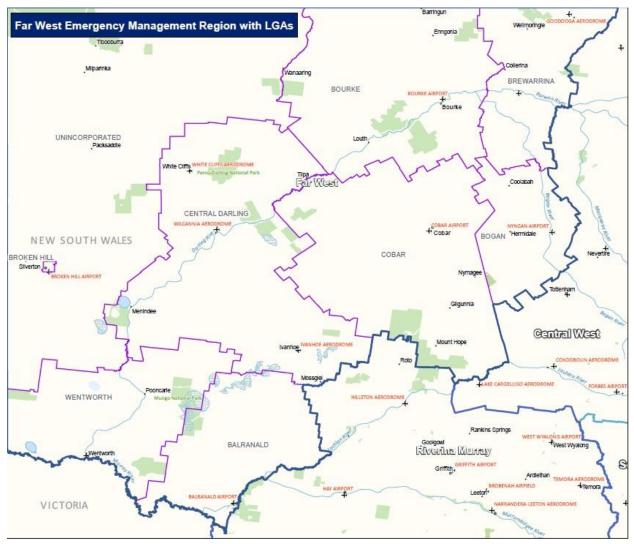
Emergency Service Organisation boundaries broadly align with Local Government Areas in most instances but each agency defines a different border for their Regions, Zones, Districts and Areas. See their websites for details. The table below identifies some organisation boundaries.

# February 2021

| Bo         | oundary Alignm                           | ients, Fo          | orecast A | nd Operatio                   | onal Area        | as.                |                                 |                                      |                                    |  |
|------------|--|--------------------|-----------|-------------------------------|------------------|--------------------|---------------------------------|--------------------------------------|------------------------------------|--|
| LGA        | Towns/<br>Villages                       | Police<br>District | SES Zone  | RFS Fire<br>Control<br>Centre | FRNSW<br>Region  | Health<br>District | Local Land<br>Service<br>Region | BoM Weather<br>Forecast Area         | Fire<br>Weather<br>Districts       | BoM Flood Watch Area   |
| Balranald  | Balranald<br>Euston                      | Barrier            | Southern  | Dareton                       | Region<br>West 3 | Far<br>West<br>LHD | Western                         | Lower Western                        | South<br>Western                   | 6-Willandra Lakes.<br>8-Murray River<br>downstream of Tocumwal<br>13-Lower Murrumbidgee<br>River   |
| Bogan      | Nyngan<br>Hermidale<br>Coolabah          | Central<br>North   | Western   | Coonamble                     | Region<br>West 1 | Western<br>LHD     | Central<br>West                 | Central West<br>Slopes and<br>Plains | Upper<br>Central<br>West<br>Plains | 19-Bogan River   |
| Bourke     | Bourke<br>Enngonia<br>Wanaaring<br>Louth | Central<br>North   | Western   | Bourke                        | Region<br>West 1 | Western<br>LHD     | Western                         | Upper Western                        | Far<br>Western                     | 7-Darling River.<br>10-Mount Gunderbooka to<br>Wokabity Lake.<br>12-Warrago River (NSW).<br>18-Culgoa Birrie Bokhara<br>and Narran Rivers.   |
| Brewarrina | Brewarrina<br>Weilmoringle<br>Goodooga   | Central<br>North   | Western   | Brewarrina                    | Region<br>West 1 | Western<br>LHD     | Western                         | Upper Western                        | Far<br>Western                     | <ul> <li>4-Bynguano-Lower Barrier<br/>Ranges.</li> <li>7-Darling River.</li> <li>17-Wallam and Mungallala<br/>Creeks.</li> <li>18-Culgoa Birrie Bokhara<br/>and<br/>Narran Rivers.</li> <li>21-Barwon River</li> </ul> |

| Bou                    | ndary Alignn  | nents, Fo          | orecast A | nd Operat                     | ional Area       | as.                |                                 |                                       |                              |  |
|------------------------|---|--------------------|-----------|-------------------------------|------------------|--------------------|---------------------------------|---------------------------------------|------------------------------|--|
| LGA                    | Towns/<br>Villages  | Police<br>District | SES Zone  | RFS Fire<br>Control<br>Centre | FRNSW<br>Region  | Health<br>District | Local Land<br>Service<br>Region | BoM Weather<br>Forecast Area          | Fire<br>Weather<br>Districts | BoM Flood Watch Area   |
| Broken Hill            | Broken Hill   | Barrier            | Western   | Cobar                         | Region<br>West 3 | Far<br>West<br>LHD | Western                         | Lower Western                         | Far<br>Western               | 4-Bynguano-Lower Barrier<br>Ranges.  |
| Central Darling        | Wilcannia<br>Menindee<br>Ivanhoe<br>White Cliffs<br>Tilpa<br>Mossgiel | Barrier            | Western   | Cobar                         | N/A              | Far<br>West<br>LHD | Western                         | Upper Western<br>& Lower<br>Western   | Far<br>Western               | 7-Darling River.<br>9-Paroo River (NSW).<br>10-Mount Gunderbooka to<br>Wokabity Lake.  |
| Cobar                  | Cobar<br>Nymagee<br>Gilgunnia<br>Mount Hope                           | Central<br>North   | Western   | Cobar                         | Region<br>West 1 | Western<br>LHD     | Western                         | Upper Western<br>and Lower<br>Western | Far<br>Western               | 10-Mount Gunderbooka to<br>Wokabity Lake.  |
| Wentworth              | Wentworth<br>Dareton<br>Buronga<br>Gol Gol<br>Pooncarie               | Barrier            | Western   | Dareton                       | Region<br>West 3 | Far<br>West<br>LHD | Western                         | Lower Western                         | South<br>Western             | <ul> <li>2-Danggali Rivers and</li> <li>Creeks.</li> <li>4-Bynguano-Lower Barrier</li> <li>Ranges.</li> <li>6-Willandra Lakes.</li> <li>7-Darling River.</li> </ul>                      |
| Unincorporated<br>Area | Tibooburra<br>Milparinka<br>Silverton<br>Packsaddle                   | Barrier            | Western   | Cobar                         | N/A              | Far<br>West<br>LHD | Western                         | Upper Western<br>and Lower<br>Western | Far<br>Western               | <ol> <li>1-Lake Frome.</li> <li>2-Danggali Rivers and<br/>Creeks.</li> <li>3-Cooper Creek.</li> <li>4-Bynguano-Lower Barrier<br/>Ranges.</li> <li>5-Bulla-Bancannia District.</li> </ol> |

## LOCAL GOVERNMENT AREAS.



| LGA                 | Council Seat | Area km <sup>2</sup> (% of Region) | Population | State Electorate |
|---------------------|--------------|------------------------------------|------------|------------------|
| Balranald           | Balranald    | 21,693 (7%)                        | 2,287      | Murray           |
| Bogan               | Nyngan       | 14,611 (5%)                        | 2,692      | Barwon           |
| Bourke              | Bourke       | 41,679 (13%)                       | 2,834      | Barwon           |
| Brewarrina          | Brewarrina   | 19,188 (6%)                        | 1,651      | Barwon           |
| Broken Hill         | Broken Hill  | 170 (<0.1%)                        | 17,708     | Barwon           |
| Central Darling     | Wilcannia    | 53,511 (17%)                       | 1,833      | Barwon           |
| Cobar               | Cobar        | 44,065 (14%)                       | 4,647      | Barwon           |
| Unincorporated Area | None         | 93,300 (30%)                       | 1,056      | Barwon           |
| Wentworth           | Wentworth    | 26,269 (8%)                        | 6,794      | Murray           |
| Total:              | 8            | 314,486 (100%)                     | 41,502     | 2                |

#### THE UNINCORPORATED AREA<sup>1</sup>

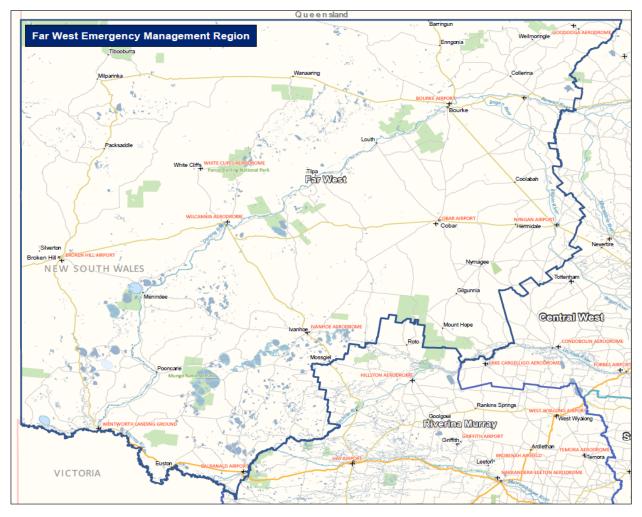
The Unincorporated Area is not governed by a local council and forms part of the Western Division. It includes the communities of Silverton, Tibooburra and Milparinka. The Unincorporated Area also has many Local Aboriginal Land Council groups, including Tibooburra, Wanaaring, Mutawintji, Wilcannia, Menindee, Broken Hill and Dareton.

There are limited planning controls on freehold land in the Unincorporated Area to guide land use and related decision-making or any applicable formal governance and planning arrangements. The Unincorporated Area has significant heritage features such as Mutawintji National Park and rock art (engravings and paintings) and environmental assets with limited protection. Similarly, there are no local planning controls or guidance on development thresholds and the community has a limited say in land use development and management.

In the absence of a local government authority, the appropriate government agencies now have responsibility for the management of the area.

#### EM REGION BOUNDARIES.

The Far West Region is bounded by the state borders of Victoria, South Australia and Queensland. The eastern end of the Region is bounded by the Central West EM Region in the north and the Riverina Murray Region in the south.



<sup>&</sup>lt;sup>1</sup> Far West Regional Plan 2036 (2017)

# Landform and Topography

#### GENERAL LANDFORMS

The Far West Region spans 8 main bioregions;<sup>2</sup>

Broken Hill Complex Bioregion,

The Broken Hill Complex Bioregion in western NSW is geologically unique in the state. The western half is composed of ancient basement rocks of the Adelaide Fold Belt, and the eastern half is the edge of the much younger rocks of the Tasman Fold Belt. Many of the rocks and minerals found in the region are of considerable interest and economic importance, and geology exerts strong controls on the landscape.

• Cobar Peneplain Bioregion,

The Cobar Peneplain is a prominent topographical landscape of rolling downs and flat plains punctuated by stony ridges and ranges and is formed on the north-westerly extension of the Lachlan Fold Belt. The more elevated areas of the Cobar Peneplain are characterised by shallow, red soils and aeolian sands associated with the Darling River and the Murray Basin mantle in the lower areas in the west and south, while alluvial deposits from the Bogan River fringe the Peneplain in the east.

<u>Channel Country Bioregion,</u>

The Channel Country Bioregion is a region of extensive stream systems draining to Lake Eyre. Multiple river channels, very wide floodplains and large waterholes crisscross this subdued landscape of gibber plain, low stony rises and dunefields.

<u>Simpson-Strzelecki Dunefields Bioregion</u>,

The Simpson-Strzelecki Dunefields are part of the Australian continental dunefields, which consist of a huge anti-clockwise whorl of linear dunes in central Australia. Most of the dunefield lies in the Lake Eyre Basin and the edge of the region extends into the NSW corner country. The region is dominated by high linear dunes of red sand.

<u>Murray Darling Depression Bioregion,</u>

The Murray Darling Depression Bioregion lies in the Murray Basin on Tertiary and Quaternary sediments deposited from a shallow sea, lakes and rivers. The bioregion extends into Vic and SA.

The landscape is characterised by dunefields, sandplains and undulating plains of brown calcareous soils. There is very little structured drainage but numerous lakes, swamps and depressions are present, some of which are driven by saline groundwater.

<u>Riverina Bioregion,</u>

The Riverina covers the alluvial fans of the Lachlan, Murrumbidgee and Murray Rivers west of the Great Dividing Range and extends down the Murray. Much of the geology and geomorphology of the region is similar to that of the Darling Riverine Plains Bioregion. The upper catchment landscape is a series of overlapping, low gradient alluvial fans. The lower tract of the river is a floodplain with overflow lakes. Discharge from past and present streams control patterns of sediment deposition, soils, landscapes and vegetation.

• Mulga Lands Bioregion,

Only a few areas of Palaeozoic bedrock are found in the bioregion, where resistant quartz sandstones emerge from the Cretaceous and Quaternary blankets of sediment. These form low rounded isolated ranges and hills such as Mt Pleasant and could be considered as outliers of the Cobar Peneplain Bioregion.

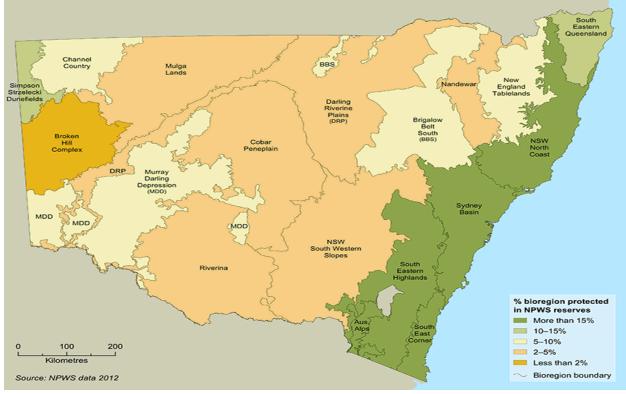
<sup>&</sup>lt;sup>2</sup> NSW Planning, Industry & Environment.

#### Darling Riverine Plains Bioregion

The Darling Riverine Plains Bioregion occupies most of the upper catchments of the Darling and Barwon Rivers in northern NSW and southern Qld and includes the channels and floodplains of the lower reaches of these catchments.

The upper catchment landscape is a series of overlapping, low gradient alluvial fans. The lower tract of the river is a narrow floodplain confined between bedrock landscapes, or by extensive sandplains and dunefields.

Discharge from past and present streams control patterns of sediment deposition, soils, landscapes and vegetation. Much of the geology and geomorphology of the region is similar to that of the Riverina Bioregion.



**NSW Bioregions** 

# **National Parks and Nature Reserves**

More than 14% of the Far West EM Region is made up of National Parkes and Nature Reserves. All are administered by the National Parkes and Wildlife Service (NPWS) which has significant representation in many townships in the Region. They have invaluable resources such as quad bikes, motor bikes and other vehicles as well as many well trained staff to assist with fires and land searches. NPWS have significant on-park fire-fighting resources which can be called upon to assist most local or regional emergencies.

| LGA             | Name                                  | Location  | Km <sup>2</sup> | Administration                          | Information  |
|-----------------|---------------------------------------|---|-----------------|---|--|
| Balranald       | Mungo National<br>Park                | 100km North East of Dareton,<br>70km south east Pooncarie | 1,110           | National Parkes and<br>Wildlife Service | Drones, pets and smoking prohibited. Is part of the<br>Willandra Lakes Region World Heritage Area. The<br>region abounds in ancient cultural and archaeological<br>treasures. Pets and smoking prohibited. |
|                 | Yanga National Park                   | 10km East of Balranald                                    | 311             | National Parkes and<br>Wildlife Service | Pets and smoking prohibited. Long Aboriginal history in the area.  |
| Bogan           | Quanda Nature<br>Reserve              | 50km South West of Nyngan                                 | 47              | National Parkes and<br>Wildlife Service | Originally the Reserve was conserved as mallee fowl habitat. Pets and smoking prohibited.  |
| Bourke          | Gundabooka<br>National Park           | 50km South of Bourke                                      | 639             | National Parkes and Wildlife Service    | Pets and smoking prohibited. Gunderbooka range is highly significant to the Ngemba and Kurnu Baakandji people of western NSW.  |
|                 | Gundabooka State<br>Conservation Area | 50km South of Bourke                                      | 254             | National Parkes and<br>Wildlife Service | The area is of great significance to the local Ngemba People. Pets and smoking prohibited.   |
|                 | Ledknapper Nature<br>Reserve          | 40km East of Enngonia.                                    | 478             | National Parkes and<br>Wildlife Service | Pets and smoking prohibited.   |
|                 | Toorale National<br>Park              | Between Bourke and Louth                                  | 308             | National Parkes and Wildlife Service    | Pets and smoking prohibited. This country between the Warrego and Darling rivers is of spiritual and cultural significance to Kurnu-Baakandji People.  |
| Brewarrina      | Culgoa National<br>Park               | 15km North of Weilmoringle.<br>180km from Bourke          | 428             | National Parkes and<br>Wildlife Service | Pets and smoking prohibited. Murrawarri people, from the Gandugari group, consider this traditional land   |
| Central Darling | Kinchega National<br>Park             | 5km West of Menindee                                      | 442             | National Parkes and<br>Wildlife Service | Pets, firewood collecting and smoking prohibited. The traditional land of the Paakantji nation   |

# **OFFICIAL:** Sensitive

| LGA                           | Name  | Location  | Km <sup>2</sup> | Administration                          | Information  |
|-------------------------------|---|---|-----------------|---|--|
|                               | Morrisons Lake<br>Nature Reserve                | 20km south of Ivanhoe                               | 3               | National Parkes and Wildlife Service    | Pets and smoking prohibited. Roosting and breeding sites for a number of waterbirds. A terminal drainage basin on Willandra Creek.                                     |
|                               | Paroo-Darling<br>National Park                  | North East of White Cliffs                          | 1,781           | National Parkes and Wildlife Service    | Pets and smoking prohibited. Traditional home of the<br>Ngiyeempaa and Paakantyi people. No pets allowed.<br>The park is a historically and culturally important site. |
|                               | Paroo-Darling State<br>Conservation Area        | 30km East of Wilcannia                              | 415             | National Parkes and<br>Wildlife Service | Pets and smoking prohibited.   |
| Cobar                         | Balowra State<br>Conservation Area              | 20km south of Nymagee                               | 17              | National Parkes and<br>Wildlife Service | Pets and smoking prohibited.   |
|                               | Nombinnie State<br>Conservation Area            | 170 km South of Cobar                               | 460             | National Parkes and Wildlife Service    | Pets and smoking prohibited.   |
|                               | Round Hill Nature<br>Reserve                    | 170km south of Cobar                                | 136             | National Parkes and<br>Wildlife Service | Pets and smoking prohibited.   |
|                               | Yathong Nature<br>Reserve                       | 120km South West of Cobar,<br>120km East of Ivanhoe | 1072            | National Parkes and<br>Wildlife Service | Pets and smoking prohibited.   |
| Unincorporated<br>Area of NSW | Mutawintji National<br>Park                     | 140km West of White Cliffs<br>West of White Cliffs  | 689             | National Parkes and<br>Wildlife Service | Pets and smoking prohibited.   |
|                               | Mutawintji Nature<br>Reserve                    | 40km West of White Cliffs                           | 69              | National Parkes and Wildlife Service    | Access only through permit for management, research<br>etc for protection of yellow-footed rock wallaby. Pets<br>and smoking prohibited.                               |
|                               | Mutawintji State<br>Conservation Area           | 45km West of White Cliffs                           | 570             | National Parkes and Wildlife Service    | Mutawintji State Conservation Area was created in August 2019. Pets and smoking prohibited.  |
|                               | Narriearra<br>Caryapundy Swamp<br>National Park | 40km East of Tibooburra                             | 1,537           | National Parkes and<br>Wildlife Service | Closed to the public. Protecting threatened species,<br>important habitat and wetlands. Pets and smoking<br>prohibited.  |
|                               | Nocoleche Nature<br>Reserve                     | 20km South of Wanaaring                             | 747             | National Parkes and<br>Wildlife Service | Used for wetlands and water fowl research, feral animal research and educational activities. Pets and smoking prohibited.  |

## February 2021

# **OFFICIAL: Sensitive**

| LGA       | Name                           | Location                         | Km <sup>2</sup> | Administration                          | Information   |
|-----------|--------------------------------|----------------------------------|-----------------|---|---|
|           | Sturt National Park            | 5km North of Tibooburra          | 32,530          | National Parkes and Wildlife Service    | The traditional land of the Wangkumara People.<br>Wetland habitat and home to varied endangered<br>species. Pets and smoking prohibited.  |
| Wentworth | Mallee Cliffs<br>National Park | 30km East of Buronga             | 579             | National Parkes and<br>Wildlife Service | The park contains a number of isolated, relict, plant<br>communities that demonstrate shifts in the pattern of<br>vegetation arising from long-term environmental<br>change.      |
|           | Nearie Lake Nature<br>Reserve  | 80km North of Wentworth          | 43              | National Parkes and<br>Wildlife Service | Dominated by chenopod shrublands, while the lower<br>flooding areas support black box, lignum and old man<br>salt bush. Sandy ridges support belah-western<br>rosewood woodlands. |
|           | Tarawi Nature<br>Reserve       | 100km North West of<br>Wentworth | 335             | National Parkes and<br>Wildlife Service | prime habitat for the endangered malleefowl. also<br>features areas of Acacia wilhelmiena, and bluebush<br>daisy, an endangered plant in NSW                                      |
|           |                                | Total:                           | 45,000          | >14% of the Far West                    | Region  |

# **Water Features**

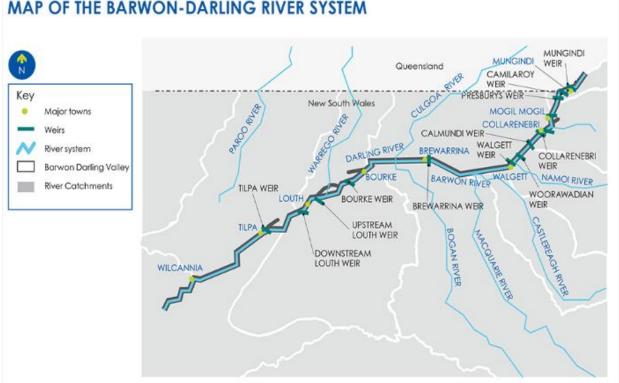
# **WEIRS**

The Far West of NSW features numerous weirs to support the many communities and industries along the Barwon-Darling River systems. There are 29 weirs along the Barwon-Darling River and adjoining tributaries which improves water security to many river towns and communities.<sup>3</sup>

# DAMS

The Far West has only 2 dams;<sup>4</sup>

- Stephens Creek Dam 15km from Broken Hill, 2,000 ML capacity
- Umberumberka Dam 30km from Broken Hill, 1,950 ML. Scheduled for decommissioning. •

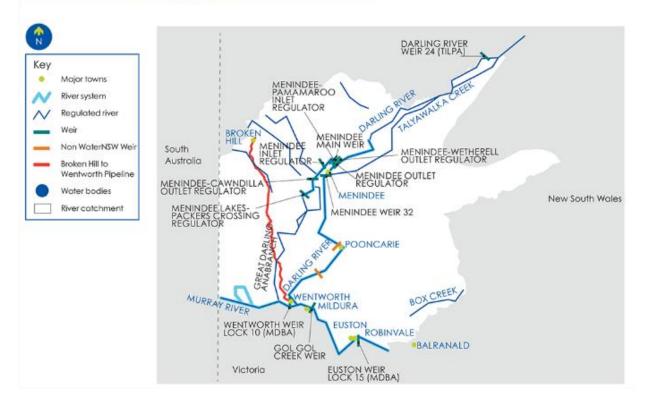


# MAP OF THE BARWON-DARLING RIVER SYSTEM

<sup>&</sup>lt;sup>3</sup> Water NSW

<sup>&</sup>lt;sup>4</sup> Wikipedia.

# MAP OF THE LOWER-DARLING RIVER SYSTEM



#### WATER STORAGES

There are numerous man made raised water storages in the region primarily for irrigation. Most are private storages but they include the Nyngan water security storage.

The Menindee Lakes<sup>5</sup> were a series of shallow natural ephemeral lakes along the Darling River which have been developed into a water storage. When full they hold three and half times as much water as Sydney Harbour. Today the lakes supply water to meet irrigation, stock and domestic needs of landholders between Menindee and Wentworth, and supplement the River Murray system.

#### WATER CATCHMENTS<sup>6</sup>

#### Murray-Darling Basin

The Murray-Darling Basin is the catchment for the Murray and Darling Rivers and all their tributaries, covering most of inland NSW and extending from Queensland to South Australia. It is the twentieth largest river catchment in the world, covering more than a million square kilometres, and contains 22 major catchments.

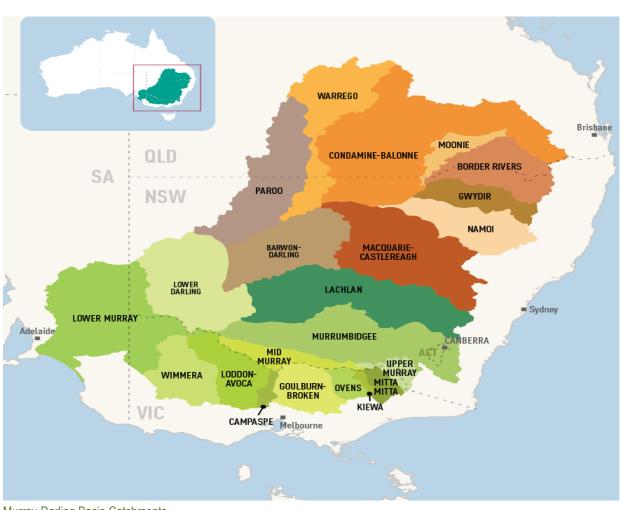
It is a significant area for food production and aquatic ecosystems. Appropriate water usage in the Basin is important, both nationally and for the more than two million people who live within the Basin.

All of the river catchments in the Murray-Darling Basin have historically led to various flood events in the Far West. Heavy rains in the eastern catchments also result in riverine flooding along the Barwon, Darling and other rivers as the water flows south west along the darling to the Murray River.

SES, Local Government and supporting agencies are well practiced with the management of flood preparation, response and recovery in all of these catchments.

<sup>&</sup>lt;sup>5</sup> Water NSW

<sup>&</sup>lt;sup>6</sup> Water NSW



Murray-Darling Basin Catchments

## Great Artesian Basin<sup>7</sup>

is one of the largest and deepest underground freshwater resources in the world. It lies below 22 percent of Australia, extending into Queensland, South Australia, NSW and Northern Territory. Nearly 25 per cent of NSW is covered by the GAB and extends to the some of the Local Government Areas of Brewarrina, Bourke, Central Darling and the Unincorporated Area.



# Climate

## CLIMATE CHANGE

The Far West like other NSW Regions is projected to be affected by climate change<sup>8</sup> by experiencing;

- An increase in both minimum and maximum temperatures of up to 0.7°C by 2030 and by 2.1°C by 2070, particularly in the far north west;
- An increase in the number of hot days (above 35°C) per year, particularly in the northern parts of the region, with an extra 10-20 hot days by 2030, and around 30 by 2070;

<sup>&</sup>lt;sup>7</sup> Water NSW

<sup>&</sup>lt;sup>8</sup> Office of environment and Heritage, 2014, Far West Climate Change Snapshot.

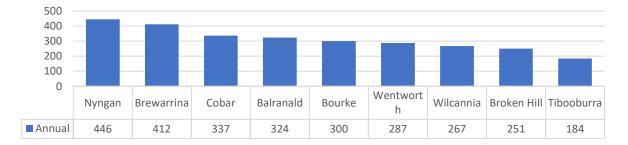
- Fewer cold nights (below 2°C) on average, with the greatest decrease in the number of cold nights likely to be in the south-east – between five and 10 fewer nights by 2030, and 10 and 20 fewer nights by 2070;
- Reduced rainfall in spring, and more rainfall in autumn, with the largest reduction in rainfall within the southern areas; and
- More intense periods of fire weather in the near future, including increased risk of bushfires and bushfire weather in spring and summer

#### RAINFALL

| Rainfall in mm 9 | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Ann. |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Nyngan           | 51.2 | 46.3 | 41.9 | 34.2 | 35.6 | 34.1 | 29   | 29.7 | 27.7 | 34.4 | 36   | 43.2 | 446  |
| Brewarrina       | 50   | 47.5 | 40.1 | 29.2 | 30.5 | 33.4 | 28.3 | 21.4 | 24.9 | 29.4 | 34.4 | 38.8 | 412  |
| Cobar            | 34.6 | 34.2 | 28.8 | 18.2 | 27.6 | 34.9 | 21.7 | 18.3 | 30   | 30.4 | 33.9 | 25.8 | 337  |
| Balranald        | 22.4 | 24.9 | 22   | 23.7 | 31.2 | 29.4 | 26.3 | 29.4 | 29.1 | 30.2 | 28.6 | 26.2 | 324  |
| Bourke           | 30.3 | 30   | 36.8 | 23.1 | 24.6 | 32.5 | 12.9 | 13   | 17.7 | 24.4 | 38.4 | 34.8 | 300  |
| Wentworth        | 21.4 | 21.7 | 19.6 | 18   | 27.7 | 26.4 | 24   | 25.8 | 26.8 | 27.2 | 24.9 | 22.4 | 287  |
| Wilcannia        | 25.4 | 32.9 | 27.8 | 16.7 | 19.5 | 29.3 | 18.7 | 15.5 | 17.4 | 21.9 | 22.1 | 20.1 | 267  |
| Broken Hill      | 28.1 | 18.7 | 20.2 | 20.2 | 20   | 15.2 | 17.5 | 18.5 | 21.3 | 24.4 | 21.2 | 21.6 | 251  |
| Tibooburra       | 20.2 | 25.9 | 22.3 | 10.7 | 14.7 | 15.6 | 12.3 | 7.4  | 18.1 | 14.2 | 24.7 | 15.3 | 184  |

Highest and Lowest Monthly Averages.

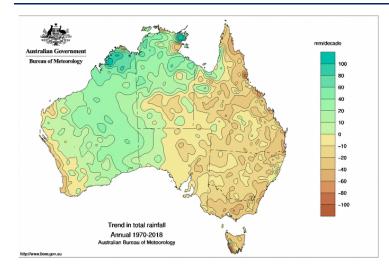
## Average Annual Rainfall in mm



Average annual rainfall in the Far West Region varies widely from 184mm annually in the north of the Unincorporated area at Tibooburra to nearly 450mm in the east of the Region at Nyngan. These extremes contribute to natural disasters such as floods and droughts. These are unevenly and unpredictably distributed throughout the region.

Rainfall across the region is variable and unreliable from year to year. Tibooburra's highest annual rainfall on record was 507mm in 2010 and its lowest was 49mm in 2002. Conversely in the east Nyngan's highest rainfall was 882mm in 1950 and lowest was 118mm in 1881.

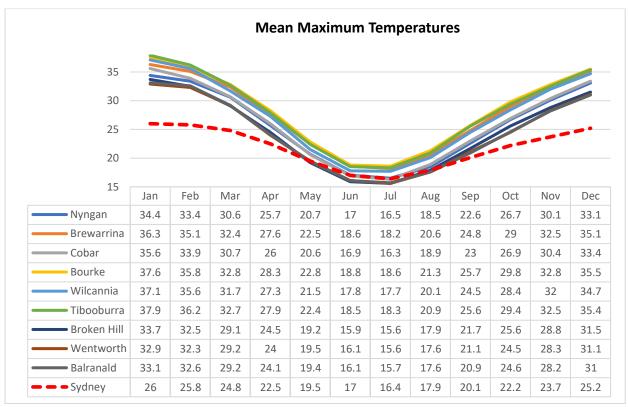
<sup>&</sup>lt;sup>9</sup> Weatherzone.com.au



This variation in rainfall may result in droughts through to widespread flooding across most of the Region. For both flooding and drought several local government areas are usually affected at the same time.

The 50 year trend in rainfall in the far west indicates a pattern of reduced rainfall of between 10mm and 40mm across the region.<sup>10</sup> This reduction underlines the prolonged droughts experienced over this time and would also indicate a continuing drop in rainfall across the Far West Region in the future.

## TEMPERATURES

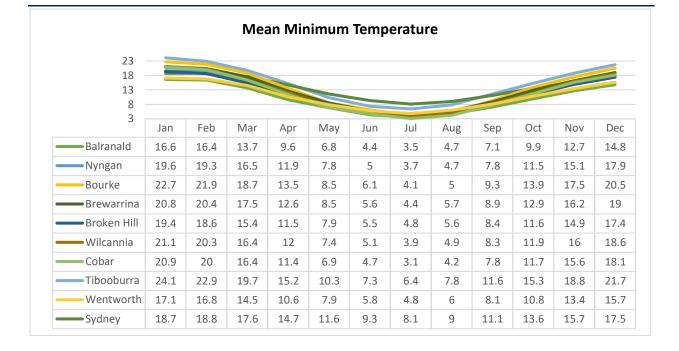


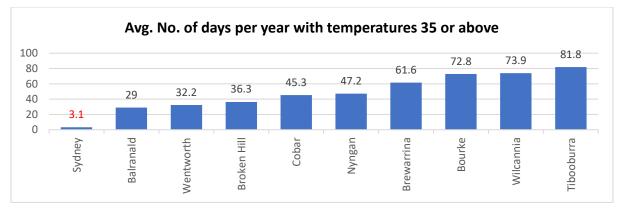
The high mean temperatures experienced in the whole Far West Region are contrasted against the data for Sydney. Most daily temperatures for Far West centres are, on average, more than 10 degrees hotter over summer than Sydney.

These expected high temperatures across the whole Region create challenges for all agency's human and physical resources when responding to emergencies and rescues.

For emergencies such as Land Search and Rescue rapid response is critical to any successful outcome.

<sup>&</sup>lt;sup>10</sup> BOM.gov.au





**Climate Impacts** 

# Land Use

Land Use information below shows the Region is predominantly made up of grazing land (86%).

| Land Use Classification                   | Bogan   | Brewarrina | Bourke    | Cobar     | Central<br>Darling | Broken Hill | Wentworth | Balranald | Unincorp-<br>Orated Area | TOTAL Ha   | % OF<br>REGION |
|---|---------|------------|-----------|-----------|--------------------|-------------|-----------|-----------|--------------------------|------------|----------------|
| 1.1.0 Nature conservation                 | 4,748   | 46,317     | 269,492   | 276,861   | 248,612            | 3           | 176,034   | 58,593    | 534,121                  | 1,614,780  | 5.11%          |
| 1.2.0 Managed resource protection         | 8,709   | 12,931     | 1,239     | 990       | 88                 | 0           | 6,390     | 247       | 0                        | 30,595     | 0.10%          |
| 1.3.0 Other minimal use                   | 24,860  | 21,975     | 0         | 311,356   | 7,229              | 2,380       | 10        | 126       | 9                        | 367,946    | 1.17%          |
| 2.1.0 Grazing native vegetation           | 855,816 | 1,695,136  | 3,763,152 | 3,632,790 | 4,826,634          | 10,522      | 2,157,459 | 1,745,493 | 8,558,405                | 27,245,407 | 86.30%         |
| 2.2.0 Production native forestry          | 39,485  | 3,611      | 0         | 42,648    | 1,459              | 0           | 5,173     | 22,556    | 72,179                   | 187,111    | 0.59%          |
| 3.1.0 Plantation forests                  | 0       | 0          | 0         | 1,251     | 0                  | 0           | 11        | 0         | 0                        | 1,262      | 0.00%          |
| 3.2.0 Grazing modified pastures           | 122,062 | 11,421     | 22,854    | 58,335    | 19,505             | 0           | 31,492    | 8,362     | 5,514                    | 279,546    | 0.89%          |
| 3.3.0 Cropping                            | 375,993 | 71,167     | 7,520     | 184,391   | 5,123              | 0           | 108,043   | 143,741   | 3,205                    | 899,182    | 2.85%          |
| 3.6.0 Land in transition                  | 8       | 0          | 0         | 24        | 38                 | 0           | 739       | 62        | 0                        | 872        | 0.00%          |
| 4.1.0 Irrigated plantation forests        | 0       | 0          | 0         | 0         | 0                  | 0           | 45        | 0         | 0                        | 45         | 0.00%          |
| 4.2.0 Grazing irrigated modified pastures | 103     | 97         | 0         | 989       | 1,452              | 0           | 1,283     | 3,269     | 0                        | 7,193      | 0.02%          |
| 4.3.0 Irrigated cropping                  | 3,363   | 4,585      | 17,516    | 3,665     | 52                 | 0           | 775       | 7,988     | 14,419                   | 52,363     | 0.17%          |
| 4.4.0 Irrigated perennial horticulture    | 47      | 0          | 573       | 0         | 361                | 3           | 10,845    | 4,791     | 32                       | 16,652     | 0.05%          |
| 4.5.0 Irrigated seasonal horticulture     | 0       | 0          | 143       | 0         | 0                  | 0           | 735       | 71        | 0                        | 949        | 0.00%          |
| 4.6.0 Irrigated land in transition        | 0       | 0          | 112       | 0         | 401                | 0           | 676       | 9         | 0                        | 1,197      | 0.00%          |
| 5.1.0 Intensive horticulture              | 0       | 0          | 0         | 0         | 0                  | 0           | 33        | 3         | 0                        | 36         | 0.00%          |
| 5.2.0 Intensive animal production         | 10      | 68         | 3         | 3         | 14                 | 47          | 103       | 11        | 0                        | 259        | 0.00%          |
| 5.3.0 Manufacturing and industrial        | 86      | 0          | 159       | 79        | 3                  | 127         | 50        | 94        | 0                        | 598        | 0.00%          |
| 5.4.0 Residential and farm infrastructure | 1,729   | 1,004      | 3,085     | 1,834     | 3,462              | 1,369       | 2,063     | 1,291     | 3,982                    | 19,820     | 0.06%          |
| 5.5.0 Services                            | 284     | 1,229      | 455       | 381       | 553                | 691         | 677       | 133       | 262                      | 4,666      | 0.01%          |
| 5.6.0 Utilities                           | 301     | 1          | 7         | 15        | 2                  | 32          | 7         | 19        | 208                      | 591        | 0.00%          |
| 5.7.0 Transport and communication         | 9,722   | 10,490     | 15,811    | 13,544    | 11,717             | 645         | 3,061     | 1,789     | 17,809                   | 84,588     | 0.27%          |

## February 2021

# **OFFICIAL: Sensitive**

Far West Region EMPlan

| Land Use Classification            | Bogan | Brewarrina | Bourke | Cobar  | Central<br>Darling | Broken Hill | Wentworth | Balranald | Unincorp-<br>Orated Area | TOTAL Ha | % OF<br>REGION |
|------------------------------------|-------|------------|--------|--------|--------------------|-------------|-----------|-----------|--------------------------|----------|----------------|
| 5.8.0 Mining                       | 676   | 156        | 250    | 1,795  | 1,272              | 749         | 2,764     | 271       | 391                      | 8,324    | 0.03%          |
| 5.9.0 Waste treatment and disposal | 35    | 15         | 65     | 79     | 54                 | 92          | 191       | 49        | 0                        | 580      | 0.00%          |
| 6.1.0 Lake                         | 7     | 3,703      | 4,079  | 889    | 106,164            | 0           | 75,184    | 57,795    | 39,005                   | 286,824  | 0.91%          |
| 6.2.0 Reservoir/dam                | 1,051 | 2,165      | 4,041  | 1,060  | 924                | 23          | 384       | 260       | 1,581                    | 11,488   | 0.04%          |
| 6.3.0 River                        | 4,029 | 15,766     | 9,621  | 11,842 | 11,574             | 124         | 11,547    | 8,928     | 29,640                   | 103,071  | 0.33%          |
| 6.4.0 Channel/aqueduct             | 330   | 1,504      | 1,535  | 144    | 62                 | 0           | 2         | 365       | 477                      | 4,418    | 0.01%          |
| 6.5.0 Marsh/wetland                | 5,661 | 13,534     | 38,094 | 13,837 | 102,060            | 0           | 27,661    | 101,520   | 38,475                   | 340,842  | 1.08%          |

# **Population and People**

# **POPULATION AND PEOPLE<sup>11</sup>**

| 3000<br>2500<br>2000<br>1500<br>1000<br>500 |              |                | LGA            | N Popu         | lation         | by Age         | 2              |                |                |                |                             |
|---|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|
| 0   | 0-9<br>years | 10-19<br>years | 20-29<br>years | 30-39<br>years | 40-49<br>years | 50-59<br>years | 60-69<br>years | 70-79<br>years | 80-89<br>years | 90-99<br>years | 100<br>years<br>and<br>over |
| Balranald                                   | 329          | 290            | 253            | 235            | 279            | 341            | 326            | 143            | 86             | 14             | 0                           |
| Bogan                                       | 389          | 330            | 329            | 263            | 357            | 365            | 257            | 251            | 118            | 17             | 0                           |
| Bourke                                      | 437          | 300            | 344            | 321            | 361            | 368            | 261            | 147            | 74             | 6              | 0                           |
| Brewarrina                                  | 258          | 206            | 269            | 158            | 215            | 266            | 152            | 71             | 36             | 12             | 0                           |
| Broken Hill                                 | 1997         | 1903           | 2078           | 1870           | 2104           | 2639           | 2403           | 1576           | 978            | 157            | 3                           |
| Central Darling                             | 250          | 220            | 223            | 234            | 221            | 263            | 242            | 120            | 38             | 8              | 0                           |
| Cobar                                       | 743          | 539            | 598            | 663            | 528            | 679            | 461            | 270            | 133            | 31             | 0                           |
|   | 150          | 72             | 131            | 151            | 136            | 173            | 148            | 69             | 24             | 13             | 0                           |
| Wentworth                                   | 875          | 801            | 637            | 685            | 879            | 1029           | 1017           | 591            | 226            | 54             | 0                           |

#### INDIGENOUS REPRESENTATION IN COMMUNITIES<sup>12</sup>.

The region has a significant Aboriginal population.

Approximately 14%, or nearly 6,000, of the total population of the region is Aboriginal. Most major towns in the Region have significant aboriginal populations.

The Murdi Paaki Regional Assembly<sup>13</sup> is a regional non-incorporated body that represents the interests of Aboriginal people in 16 communities

| LGA                 | Aboriginal | Total<br>Population | Aboriginal<br>% of total |
|---------------------|------------|---------------------|--------------------------|
| Balranald           | 198        | 2,287               | 9%                       |
| Bogan               | 441        | 2,692               | 16%                      |
| Bourke              | 991        | 2,834               | 35%                      |
| Brewarrina          | 1477       | 1,651               | 89%                      |
| Broken Hill         | 627        | 17,708              | 4%                       |
| Central Darling     | 812        | 1,833               | 44%                      |
| Cobar               | 715        | 4,647               | 15%                      |
| Wentworth           | 627        | 6,794               | 9%                       |
| Unincorporated Area | 36         | 1,056               | 3%                       |
| Total               | 5929       | 41,502              | 14%                      |

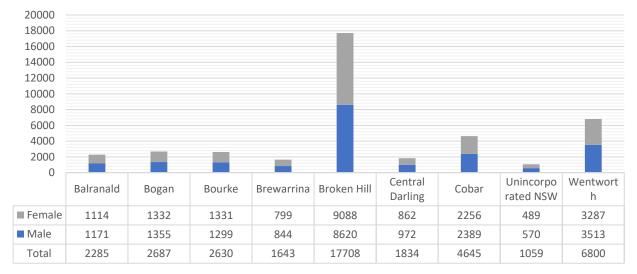
in western NSW, many of which are in the Far West. The Assembly's membership comprises representatives from the Local Aboriginal Land Councils, community working parties and a young leaders program.

<sup>&</sup>lt;sup>11</sup> ABS 2016 Census

<sup>&</sup>lt;sup>12</sup> ABS 2016 Census

<sup>13</sup> Murdi Pakki Regional Assembly, www.mpra.com.au

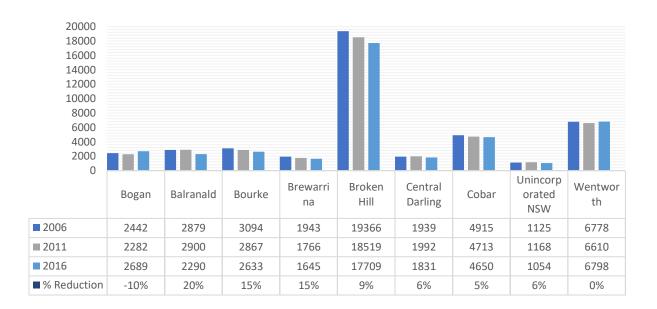
# **POPULATION TRENDS<sup>14</sup>**



## Population of each LGA by sex. Far West EM Region

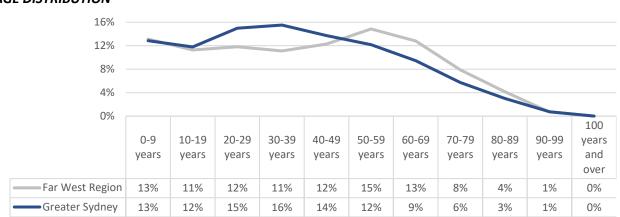
The overall population of the Region has declined by 7% between 2006 and 2016. Broken Hill saw a steady reduction of 9% over the period. Only bogan Shire saw an increase of 10% for the period.

# Population trend for each LGA. Far West Region



<sup>&</sup>lt;sup>14</sup> ABS 2016 Census





The graph above demonstrates how the Far West Region is aging compared with the Metropolitan Area. There is a comparative decline in the percentage of the younger population to 40 years, and a comparative rise in the older population past 40.

## LANGUAGE SPOKEN<sup>16</sup>

The Far West is a predominantly English speaking area with 97% of Census respondents identifying as speaking English at home. Other languages spoken in the area are Italian, Indo-Aryan, Asian and Indigenous languages among many. 35 languages in total are spoken across the Region. There are no local formal interpreter services in the Region

| Language spoken<br>at home – top 10          | Broken Hill | Wentworth | Cobar | Bogan | Bourke | Balranald | Central Darling | Brewarrina | Unincorporated | Total | %      |
|--|-------------|-----------|-------|-------|--------|-----------|-----------------|------------|----------------|-------|--------|
| English                                      | 15705       | 5841      | 3911  | 2335  | 2044   | 1899      | 1482            | 1416       | 902            | 35538 | 96.59% |
| Italian                                      | 42          | 76        | 12    |       | 5      | 68        |                 |            | 3              | 211   | 0.57%  |
| Indo-Aryan                                   | 46          | 13        | 33    | 21    | 19     | 5         |                 | 4          |                | 137   | 0.37%  |
| Southeast Asian<br>Austronesian<br>Languages | 84          | 8         | 15    | 8     |        | 4         |                 |            |                | 118   | 0.32%  |
| Australian Indigenous<br>Languages, nfd      | 6           | 29        | 13    |       |        |           | 9               | 43         |                | 103   | 0.28%  |
| Pacific Austronesian<br>Languages            | 10          | 8         | 3     | 7     | 4      | 28        | 13              |            |                | 69    | 0.19%  |
| Chinese                                      | 19          | 7         | 14    | 7     | 5      | 14        |                 |            | 4              | 64    | 0.17%  |
| Dravidian                                    | 24          |           | 6     | 6     |        | 9         | 3               | 8          |                | 57    | 0.15%  |
| Dutch and Related<br>Languages               | 16          | 3         | 28    | 4     |        |           |                 |            |                | 51    | 0.14%  |
| African Languages                            | 7           | 3         | 19    |       | 7      | 3         |                 |            |                | 42    | 0.11%  |
| Not stated                                   | 1558        | 757       | 550   | 294   | 517    | 237       | 301             | 171        | 118            | 4510  |        |
| Total  | 17709       | 6798      | 4650  | 2689  | 2633   | 2290      | 1831            | 1645       | 1054           | 41302 |        |

<sup>&</sup>lt;sup>16</sup> ABS 2016 Census

## VEHICLES AND MODE OF TRANSPORT<sup>17</sup>

Transport NSW provide bus services between larger centres servicing smaller communities eg, Broken Hill and Wilcannia, Broken Hill and Dubbo. In spite of this most communities rely on their private vehicles for travel for most needs including shopping, medical treatment, work and education. Broken Hill has its own private bus company servicing the city.

| Motor vehicles per dwelling | Balranald | Bogan | Bourke | Brewarrina | Broken Hill | Central Darling | Cobar | Wentworth | Unincorporated | Total |
|-----------------------------|-----------|-------|--------|------------|-------------|-----------------|-------|-----------|----------------|-------|
| No motor vehicles           | 69        | 79    | 108    | 134        | 707         | 99              | 122   | 167       | 29             | 1524  |
| One motor vehicle           | 244       | 316   | 362    | 207        | 3045        | 236             | 585   | 734       | 132            | 5854  |
| Two motor vehicles          | 298       | 336   | 264    | 111        | 2291        | 129             | 636   | 990       | 83             | 5150  |
| Three motor vehicles        | 127       | 132   | 74     | 51         | 638         | 57              | 224   | 331       | 41             | 1673  |
| Four or more motor vehicles | 71        | 72    | 51     | 35         | 254         | 62              | 96    | 196       | 52             | 896   |
| Not stated                  | 136       | 169   | 277    | 78         | 796         | 160             | 289   | 375       | 98             | 2373  |
| Not applicable              | 275       | 205   | 235    | 113        | 1919        | 308             | 520   | 505       | 178            | 4263  |

## HOME OWNERSHIP AND RENTERS<sup>18</sup>

| Home Ownership                         | Balranald | Bogan | Bourke | Brewarrina | Broken Hill | Central<br>Darling | Cobar | Wentworth | Unincorp. | Total |
|--|-----------|-------|--------|------------|-------------|--------------------|-------|-----------|-----------|-------|
| Owned outright                         | 355       | 402   | 305    | 142        | 3110        | 255                | 578   | 1007      | 151       | 29.0% |
| Owned with a mortgage                  | 196       | 221   | 188    | 44         | 2139        | 52                 | 416   | 774       | 71        | 18.9% |
| Being purchased - shared equity scheme | 6         | 0     | 0      | 0          | 11          | 0                  | 0     | 0         | 0         | 0.1%  |
| Rented                                 | 217       | 286   | 320    | 300        | 1658        | 228                | 609   | 566       | 76        | 19.6% |
| Being occupied rent-free               | 41        | 32    | 44     | 44         | 105         | 43                 | 55    | 62        | 26        | 2.1%  |
| Being occupied - life tenure scheme    | 0         | 0     | 0      | 0          | 8           | 0                  | 3     | 7         | 0         | 0.1%  |
| Other tenure type                      | 3         | 9     | 19     | 9          | 38          | 19                 | 20    | 27        | 9         | 0.7%  |
| Not stated                             | 133       | 157   | 257    | 73         | 669         | 145                | 268   | 350       | 95        | 9.9%  |
| Not applicable                         | 275       | 205   | 235    | 113        | 1919        | 308                | 520   | 505       | 178       | 19.6% |
| Total                                  | 1222      | 1317  | 1369   | 734        | 9654        | 1058               | 2466  | 3295      | 613       | 21731 |

<sup>&</sup>lt;sup>17</sup> ABS 2016 Census

<sup>&</sup>lt;sup>18</sup> ABS 2016 Census

# EMPLOYMENT AND EMPLOYMENT TYPES<sup>19</sup>

The primary employment in the Far West is in the Agriculture sector. Due to the aging and vulnerable population of the Region Health Care and Social Assistance is a significant employer in the area. Mining, retail, education and public administration are also significant employers in the Region.

| Employment Type                            | Balranald | Bogan | Brewarrina | Broken Hill | Bourke | Central<br>Darling | Cobar | Unincorp-<br>orated | Wentworth | Total % |
|--|-----------|-------|------------|-------------|--------|--------------------|-------|---------------------|-----------|---------|
| Not applicable                             | 1301      | 1521  | 1148       | 10807       | 1633   | 1267               | 2637  | 461                 | 4010      | 60.0%   |
| Agriculture, Forestry and Fishing          | 290       | 265   | 123        | 118         | 146    | 214                | 236   | 246                 | 558       | 5.3%    |
| Health Care and Social Assistance          | 100       | 102   | 79         | 1260        | 137    | 44                 | 144   | 18                  | 276       | 5.3%    |
| Mining                                     | 8         | 166   | 0          | 746         | 9      | 3                  | 647   | 4                   | 47        | 3.9%    |
| Retail Trade                               | 85        | 93    | 10         | 829         | 84     | 9                  | 137   | 17                  | 226       | 3.6%    |
| Education and Training                     | 75        | 101   | 90         | 581         | 148    | 72                 | 119   | 22                  | 223       | 3.5%    |
| Accommodation and Food Services            | 69        | 62    | 18         | 662         | 61     | 32                 | 124   | 107                 | 206       | 3.2%    |
| Public Administration and Safety           | 52        | 90    | 74         | 492         | 146    | 67                 | 137   | 47                  | 158       | 3.1%    |
| Construction                               | 47        | 52    | 17         | 349         | 42     | 14                 | 71    | 29                  | 192       | 2.0%    |
| Other Services                             | 26        | 34    | 14         | 295         | 35     | 12                 | 62    | 9                   | 90        | 1.4%    |
| Transport, Postal and Warehousing          | 45        | 39    | 12         | 265         | 10     | 9                  | 55    | 10                  | 118       | 1.4%    |
| Administrative and Support Services        | 17        | 18    | 15         | 211         | 31     | 15                 | 46    | 27                  | 107       | 1.2%    |
| Inadequately described                     | 36        | 27    | 8          | 146         | 21     | 17                 | 45    | 15                  | 95        | 1.0%    |
| Manufacturing                              | 37        | 23    | 0          | 147         | 16     | 0                  | 32    | 0                   | 134       | 1.0%    |
| Professional, Scientific and Tech Services | 11        | 30    | 5          | 135         | 23     | 7                  | 34    | 3                   | 71        | 0.8%    |
| Electricity, Gas, Water and Waste Services | 19        | 12    | 6          | 147         | 17     | 8                  | 22    | 0                   | 61        | 0.7%    |
| Not stated                                 | 23        | 18    | 13         | 101         | 24     | 9                  | 28    | 18                  | 45        | 0.7%    |
| Wholesale Trade                            | 8         | 11    | 0          | 130         | 14     | 5                  | 18    | 5                   | 63        | 0.6%    |
| Financial and Insurance Services           | 11        | 9     | 9          | 90          | 8      | 3                  | 15    | 0                   | 36        | 0.4%    |
| Total                                      | 2290      | 2689  | 1645       | 17709       | 2633   | 1831               | 4650  | 1054                | 6798      | 41302   |

# PEOPLE IN THE WORKFORCE<sup>20</sup>

| Employed                               | Balranald | Bogan | Brewarrina | Broken Hill | Bourke | Central<br>Darling | Cobar | Unincorp-<br>orated | Wentworth | Total |
|--|-----------|-------|------------|-------------|--------|--------------------|-------|---------------------|-----------|-------|
| Not in the labour force                | 556       | 670   | 571        | 6075        | 546    | 612                | 1055  | 168                 | 1935      | 29.5% |
| Employed, worked full-time             | 612       | 798   | 346        | 4230        | 720    | 426                | 1410  | 402                 | 1688      | 25.8% |
| Not applicable                         | 484       | 552   | 377        | 2944        | 614    | 349                | 1029  | 184                 | 1279      | 18.9% |
| Employed, worked part-time             | 304       | 324   | 109        | 2175        | 231    | 103                | 452   | 136                 | 890       | 11.4% |
| Not stated                             | 213       | 236   | 104        | 1116        | 398    | 235                | 432   | 93                  | 618       | 8.3%  |
| Employed, away from work               | 63        | 56    | 44         | 494         | 48     | 34                 | 153   | 56                  | 207       | 2.8%  |
| Unemployed, looking for full-time work | 34        | 41    | 41         | 453         | 44     | 53                 | 89    | 8                   | 123       | 2.2%  |
| Unemployed, looking for part-time work | 19        | 19    | 50         | 216         | 28     | 13                 | 40    | 4                   | 54        | 1.1%  |
| Total                                  | 2290      | 2689  | 1645       | 17709       | 2633   | 1831               | 4650  | 1054                | 6798      | 41302 |

<sup>&</sup>lt;sup>19</sup> ABS 2016 Census

<sup>&</sup>lt;sup>20</sup> ABS 2016 Census

# **Transport Routes and Facilities**

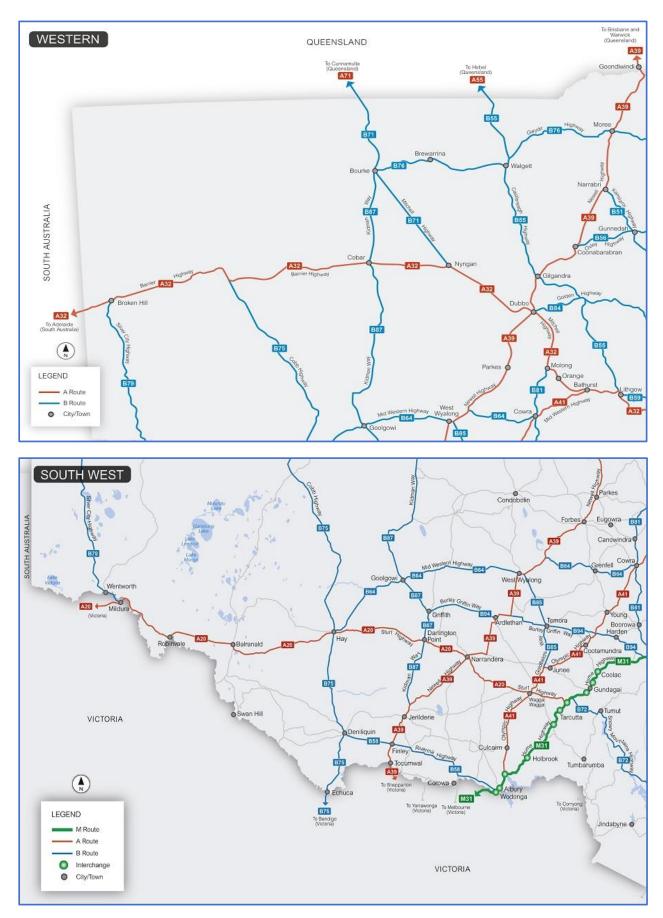
# RAIL TRANSPORT



Rail transport (in **blue** above) in the Region is through the Indian/Pacific Rail link passing Broken Hill in the west, Menindee and on through Ivanhoe. The line is run by the Australian Rail Track Corporation (ARTC).

The rail line from Cobar east to Dubbo is managed by John Holland Group. The line is mostly freight and mining products but passenger charter trains occasionally use the line.

## ROADS



#### Highways and other main roads

Two significant (A) highways traverse the Far West Region;

- Barrier Highway which passes east to west in the region through Broken Hill, and
- Sturt Highway which also passes east to west through Buronga and Balranald.

Both highways are major transportation routes with significant freight passing between the western states of Australia and New South Wales.

Other significant (B) roads travel generally north to south in the Region;

- Silver City Hwy between Wentworth, through Broken Hill and north to Tibooburra and Queensland
- Cobb Highway between Ivanhoe and Wilcannia
- Kidman Way between Cobar and Bourke and on to Queensland.

The (B) roads are important transport routes in the region and carry large amounts of local and interstate freight including stock, grain, industrial supplies, and tourists.

#### **Unsealed Roads**

Many local roads are unsealed due to the expensive cost of sealing and maintenance. Unsealed roads are generally more vulnerable to closure than sealed roads during weather events, which may cause lengthy detours and isolation for remote communities<sup>21</sup>.

Government have identified that sealing strategically identified portions of the region's roads could help the efficiency of the road network. This will result in increased traffic, especially heavy vehicle traffic, on minor roads in the far west by opening up the region more for tourism and industry.

| Highway                                       | Location where counted                    | All<br>Vehicles<br>per day | Heavy<br>Vehicles |
|---|---|----------------------------|-------------------|
| Sturt Highway Balranald to Buronga            | Wentworth & Balranald Shire boundary      | 2200                       | 566 (27%)         |
| Barrier Highway Broken Hill to Cobar          | Argent St, Broken Hill                    | 3760                       | 293 (8%)          |
|   | West of Dry Lake Road (west of Wilcannia) | 580                        | 211 (36%)         |
|   | East of Tilpa Road (west of Cobar)        | 615                        | 238 (39%)         |
| Silver City Highway Broken Hill to Wentworth  | 5km South of Broken Hill                  | 520                        | 85 (16%)          |
| Silver City Highway Broken Hill to Tibooburra | North of Mutawintje Road                  | 73                         | 10 (14%)          |
| Cobb Highway Ivanhoe to Wilcannia             | Barrier Highway intersection              | 40                         | 5 (13%)           |
| Kidman Way south of Cobar                     | Carrathool/Cobar Shire Boundary           | 115                        | 47 (41%)          |
| Kidman Way north of Cobar                     | 5km north of Cobar                        | 338                        | 171 (51%)         |

#### APPROXIMATE HIGHWAY VEHICLE TRAFFIC<sup>22</sup>

<sup>&</sup>lt;sup>21</sup> Far West Region Plan 2036 (2017)

<sup>&</sup>lt;sup>22</sup> Transport NSW 2019

## DISTANCE BETWEEN CENTRES MATRIX<sup>23</sup>

|             | Balranald  | Bourke | Brewarrina | Broken Hill | Cobar | Condobolin | Dubbo | Enngonia | Griffith | Hay    | lvanhoe | Louth | Menindee | Mildura | Nyngan | Pooncarie | Sydney | Tibooburra | Tilpa      | Wagga  | Walgett | Wanaaring | Wentworth | Wilcannia |
|-------------|------------|--------|------------|-------------|-------|------------|-------|----------|----------|--------|---------|-------|----------|---------|--------|-----------|--------|------------|------------|--------|---------|-----------|-----------|-----------|
| Balranald   | $\nearrow$ | 716    | 814        | 452         | 557   | 458        | 648   | 815      | 269      | 134    | 341     | 688   | 409      | 163     | 643    | 287       | 846    | 783        | 751        | 396    | 919     | 834       | 185       | 525       |
| Bourke      | 716        |        | 98         | 618         | 160   | 422        | 373   | 99       | 525      | 583    | 562     | 99    | 575      | 879     | 205    | 698       | 749    | 425        | 166        | 683    | 232     | 191       | 882       | 421       |
| Brewarrina  | 814        | 98     | $\nearrow$ | 715         | 258   | 427        | 379   | 195      | 623      | 681    | 659     | 197   | 673      | 977     | 210    | 795       | 729    | 521        | 264        | 688    | 134     | 287       | 980       | 518       |
| Broken Hill | 452        | 618    | 715        | Ϊ           | 458   | 758        | 759   | 716      | 577      | 585    | 319     | 418   | 114      | 296     | 590    | 236       | 1131   | 332        | 353        | 848    | 824     | 489       | 267       | 198       |
| Cobar       | 557        | 160    | 258        | 458         | Ζ     | 247        | 301   | 258      | 365      | 423    | 274     | 132   | 416      | 719     | 132    | 539       | 676    | 786        | 194        | 530    | 367     | 278       | 723       | 262       |
| Condobolin  | 458        | 422    | 427        | 758         | 247   | Ζ          | 209   | 519      | 227      | 325    | 331     | 432   | 583      | 621     | 219    | 531       | 454    | 1085       | 494        | 261    | 439     | 577       | 643       | 561       |
| Dubbo       | 648        | 373    | 379        | 759         | 301   | 209        | Ϊ     | 471      | 417      | 515    | 540     | 432   | 716      | 811     | 170    | 867       | 380    | 797        | 495        | 406    | 275     | 563       | 834       | 561       |
| Enngonia    | 815        | 99     | 195        | 716         | 258   | 519        | 471   | Ϊ        | 624      | 681    | 660     | 197   | 674      | 977     | 302    | 796       | 846    | 722        | 264        | 779    | 329     | 276       | 981       | 519       |
| Griffith    | 269        | 525    | 623        | 577         | 365   | 227        | 417   | 624      | Ϊ        | 133    | 257     | 496   | 462      | 430     | 451    | 554       | 588    | 904        | 559        | 189    | 686     | 715       | 452       | 440       |
| Hay         | 134        | 583    | 681        | 585         | 423   | 325        | 515   | 681      | 133      | $\geq$ | 209     | 554   | 414      | 296     | 510    | 421       | 717    | 916        | 617        | 268    | 744     | 700       | 319       | 391       |
| Ivanhoe     | 341        | 562    | 659        | 319         | 274   | 331        | 540   | 660      | 257      | 209    | $\geq$  | 533   | 205      | 504     | 489    | 200       | 733    | 647        | 391        | 476    | 723     | 679       | 526       | 183       |
| Louth       | 688        | 99     | 197        | 418         | 132   | 432        | 432   | 197      | 496      | 554    | 533     | Ζ     | 327      | 851     | 264    | 669       | 806    | 381        | 67         | 661    | 331     | 146       | 854       | 217       |
| M enindee   | 409        | 575    | 673        | 114         | 416   | 583        | 716   | 674      | 462      | 414    | 205     | 327   |          | 262     | 547    | 122       | 929    | 442        | 311        | 681    | 782     | 448       | 240       | 156       |
| Mildura     | 163        | 879    | 977        | 296         | 719   | 621        | 811   | 977      | 430      | 296    | 504     | 851   | 262      |         | 806    | 140       | 992    | 627        | 573        | 559    | 1040    | 782       | 29        | 418       |
| Nyngan      | 643        | 205    | 210        | 590         | 132   | 219        | 170   | 302      | 451      | 510    | 489     | 264   | 547      | 806     |        | 670       | 545    | 628        | 326        | 480    | 237     | 656       | 828       | 393       |
| Pooncarie   | 287        | 698    | 795        | 236         | 539   | 531        | 867   | 796      | 554      | 421    | 200     | 669   | 122      | 140     | 670    | Ϊ         | 925    | 564        | 434        | 683    | 904     | 571       | 118       | 278       |
| Sydney      | 846        | 749    | 729        | 1131        | 676   | 454        | 380   | 846      | 588      | 717    | 733     | 806   | 929      | 992     | 545    | 925       | Ϊ      | 1161       | 844        | 483    | 627     | 938       | 1013      | 935       |
| Tibooburra  | 783        | 425    | 521        | 332         | 786   | 1085       | 797   | 722      | 904      | 916    | 647     | 381   | 442      | 627     | 628    | 564       | 1161   | Ϊ          | 447        | 1179   | 655     | 234       | 598       | 342       |
| Tilpa       | 751        | 166    | 264        | 353         | 194   | 494        | 495   | 264      | 559      | 617    | 391     | 67    | 311      | 573     | 326    | 434       | 844    | 447        | $\nearrow$ | 724    | 398     | 213       | 618       | 156       |
| Wagga       | 396        | 683    | 688        | 848         | 530   | 261        | 406   | 779      | 189      | 268    | 476     | 661   | 681      | 559     | 480    | 683       | 483    | 1179       | 724        | $\geq$ | 677     | 807       | 581       | 791       |
| Walgett     | 919        | 232    | 134        | 824         | 367   | 439        | 275   | 329      | 686      | 744    | 723     | 331   | 782      | 1040    | 237    | 904       | 627    | 655        | 398        | 677    | Ζ       | 421       | 1063      | 627       |
| Wanaaring   | 834        | 191    | 287        | 489         | 278   | 577        | 563   | 276      | 715      | 700    | 679     | 146   | 448      | 782     | 656    | 571       | 938    | 234        | 213        | 807    | 421     |           | 753       | 538       |
| Wentworth   | 185        | 882    | 980        | 267         | 723   | 643        | 834   | 981      | 452      | 319    | 526     | 854   | 240      | 29      | 828    | 118       | 1013   | 598        | 618        | 581    | 1063    | 753       | $\geq$    | 499       |
| Wilcannia   | 525        | 421    | 518        | 198         | 262   | 561        | 561   | 519      | 440      | 391    | 183     | 217   | 156      | 418     | 393    | 278       | 935    | 342        | 156        | 791    | 627     | 538       | 499       | $\geq$    |

## AIR TRANSPORT

The Broken Hill Airport is located 6km from the City and is the major airport in the Far West Region. The airport is owned and operated by Broken Hill Council and is also a major base for the Royal Flying Doctor Service. There are several smaller airports throughout the region primarily used for emergency services, recreational and private aviation.<sup>24</sup>

| Certificate number | Aerodrome name | Operator name                      | Certificate date |  |  |  |  |
|--------------------|----------------|------------------------------------|------------------|--|--|--|--|
| CASA.ADCERT.0025   | Bourke         | Bourke Shire Council               | 27/04/06         |  |  |  |  |
| CASA.ADCERT.0181   | Broken Hill    | Council of the City of Broken Hill | 05/04/06         |  |  |  |  |
| CASA.ADCERT.0195   | Cobar          | Cobar Shire Council                | 07/08/15         |  |  |  |  |

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<sup>&</sup>lt;sup>23</sup> Google Maps

<sup>&</sup>lt;sup>24</sup> Agribusiness growth and diversification in far west NSW - Regional Development Australia – Far West - 2016

<sup>&</sup>lt;sup>25</sup> Certificate issued by CASA under CASR 139.050 - Rpt or frequent charter with more than 30 passengers, aerodrome manual, SMS, inspection and Reporting Officer required.

| Registration<br>Number | Aerodrome<br>Location | Operator Name Date Register           |                  |  |  |  |  |  |
|------------------------|-----------------------|---------------------------------------|------------------|--|--|--|--|--|
| R049                   | Balranald NSW         | Balranald Shire Council               | 06 August 2004   |  |  |  |  |  |
| R161                   | Brewarrina NSW        | Brewarrina Shire Council              | 25 October 2011  |  |  |  |  |  |
| CASA.ADREG.0148        | Ivanhoe NSW           | Central Darling Shire Council         | 05 December 2019 |  |  |  |  |  |
| R007                   | Nyngan NSW            | Bogan Shire Council                   | 23 March 2004    |  |  |  |  |  |
| R051                   | Pooncarie NSW         | Shire of Wentworth                    | 06 August 2004   |  |  |  |  |  |
| R013                   | Tibooburra NSW        | NSW Trade and Investment, Crown Lands | 05 April 2004    |  |  |  |  |  |
| R052                   | Wentworth NSW         | Shire of Wentworth                    | 06 August 2004   |  |  |  |  |  |
| CASA.ADREG.0149        | White Cliffs NSW      | Central Darling Shire Council         | 03 December 2019 |  |  |  |  |  |
| CASA.ADREG.0150        | Wilcannia NSW         | Central Darling Shire Council         | 13 December 2019 |  |  |  |  |  |

# Registered<sup>26</sup> Aerodromes

## All Weather airstrips

There are numerous other private all weather airstrips utilised by local property owners, and the RFDS for medical treatment or casualty extraction. A reliable register of these strips is maintained by the RFDS who could be contacted to confirm the location, status and suitability of these airstrips.

# Highway Airstrip Shannon's Creek

In 2015 an emergency airstrip was constructed by the Transport for NSW on the Silver City Highway 225km north of Broken Hill. The airstrip is sealed with navigation lights available to set it up for night operations. The airstrip was primarily constructed for use by the RFDS for emergency casualty extraction. Activation of the airstrip, which involves closing the highway, is arranged through the RFDS, Broken Hill Police Station or the Packsaddle Roadhouse.

# FUEL SUPPLIES

The Far West Region is serviced by several national fuel companies including Caltex(AMPOL), BP, Mobil and Shell. There are also several independent companies. Several isolated communities have customer operated bowsers with 24/7 availability. Fuel in isolated communities is usually limited to Diesel or Unleaded-91 fuel.

Aviation fuels are mainly available at Certified Aerodromes but can be carted to remote locations for use in emergencies. Most agency aviation support services have arrangements in place for refuelling and resupply to airstrips as necessary for operations.

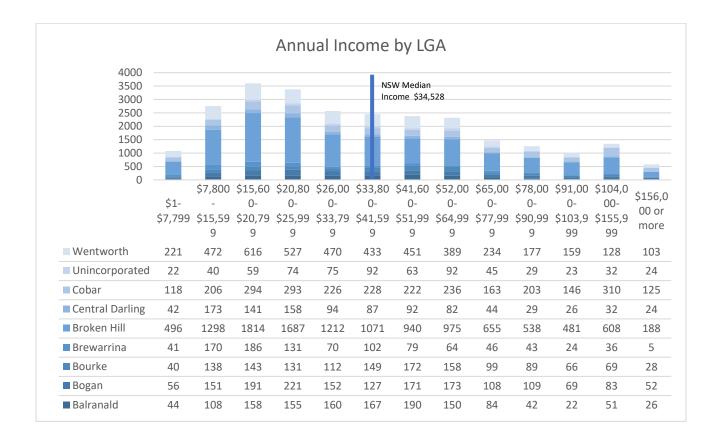
<sup>&</sup>lt;sup>26</sup> Registered by CASA under CASR 139.265

# **Economy and Industry**

<sup>27</sup>The Far West contributes over A\$2 billion to the NSW economy in gross value added, 17% from agribusiness and food, 22% from construction and infrastructure and 19% from mining and resources. The Far West has a workforce of over 17,405.

With over 30% of NSW territory, the Far West is the largest NSW region geographically. Irrigated farming is diversifying agribusiness and food manufacturing, supported by key water security projects. The region is strategically placed at the crossroads of Australia's largest state economies of NSW, Victoria, Queensland and South Australia.

While mining and agribusiness are the largest contributors to regional economic output, renewable energy, particularly solar and wind, offers significant potential. Visitor numbers have increased on average 5.7% annually since year ended June 2019, with expenditure increasing on average 7.1% annually in the same period to A\$357 million in year ending June 2019. Tourism growth is supported by the region's natural heritage, national parks and rich Aboriginal culture and artefacts. The Far West has the highest Aboriginal population in NSW giving the region a unique cultural and historical identity.



## AGRICULTURE

In 2014-15, total agricultural production in the Far West & Orana SA4 was \$1.3 billion. Production was dominated by three main production categories: Broad acre crops (Excl. hay production), Livestock - Slaughtered and other disposals, and Livestock products.

<sup>28</sup>Beef cattle, sheep and goats were the predominant livestock holdings in the region, with very few other types of livestock. In 2014-15 stock holding numbers were; Beef Cattle - 80,931, Goats - 140,898, and Sheep - 1,529,369.

<sup>&</sup>lt;sup>27</sup> https://www.investregional.nsw.gov.au/regions/far-west/

<sup>&</sup>lt;sup>28</sup> Agribusiness growth and diversification in far west NSW - Regional Development Australia – Far West - 2016

#### HORTICULTURE

A range of horticultural products has been produced in the region, although this can be dependent on water availability in any given year and has been impacted over recent years with production of certain products ceasing. Past production has included: stone fruit, citrus, table and wine grapes, quandongs, table and oil olives, potatoes, and Lucerne.<sup>29</sup>

The most substantial barrier to the development of the horticultural sub-sector in the region is access to water. Low rainfall periods and changes to New South Wales' agricultural water licencing system have resulted in substantial reductions in water available to horticultural producers in the region. Anecdotal evidence suggests that many of the larger horticultural operations have shuttered or reduced operations and some family owned farms have been put up for sale.

#### MINING

The mining industry is the primary economic driver in Broken Hill (silver, lead and zinc), Cobar (copper and gold), and White Cliffs (opal). Mining of mineral sands occurs within the Broken Hill, Balranald and Wentworth local government areas. There is also the opportunity for iron ore, copper, gold, cobalt and magnetite mining around Broken Hill<sup>30</sup>.

Cobar Shire has been an important copper, gold, lead, zinc and silver mining district for nearly 140 years. Peak, CSA, Endeavour, Manuka, Tritton, Mount Boppy and Hera mines operate in the Shire and there is potential for further development in the area. Potential exists for further discoveries of gold, copper, silver, lead and zinc in two belts of north-west to south-east trending prospective rocks, referred to as the Cobar–Nymagee and Mount Drouin potential resource areas.

### TOURISM & HOSPITALITY

Tourism research is available for the Broken Hill Local Government Area (LGA). As at 2014 the Broken Hill LGA had 162 tourism related businesses that had employees.

Key statistics for the region are:

- The most important visitor group were domestic overnight visitors (135,000).
- The primary reason for visiting the region was for a holiday (78,000).
- The majority of accommodation nights were spent in a hotel or similar lodging (138,000).
- The majority travel party type were couples (46,000).

 <sup>&</sup>lt;sup>29</sup> Agribusiness growth and diversification in far west NSW - Regional Development Australia – Far West - 2016
 <sup>30</sup> Far West Regional Plan 2036 (2017)

## Annexure B – Hazards and Risks Summary

A Regional Emergency Risk Management (ERM) Study has been undertaken by the Far West Regional Emergency Management Committee identifying the following hazards as having risk of causing loss of life, property, utilities, services and/or the community's ability to function within its normal capacity. These hazards have been identified within Local EMPLANs (which have been endorsed by the REMC) as having the potential to create an emergency. The table below provides a Regional level summation and priority for identified hazards and risks. The Local Emergency Risk Management Study for each LGA should be referenced to identify the complete list of consequences and risk descriptions.

| Hazard                                    | Risk Description   | Risk Controls  | Residual<br>Risk Priority | Combat/<br>Responsible<br>Agency       |
|---|--|--|---------------------------|--|
| Agricultural<br>Disease<br>(Animal/Plant) | An agriculture/horticulture incident that<br>results, or has potential to result, in the<br>spread of a communicable disease or<br>infestation with broad community impacts. | <ul> <li>Biosecurity sub pan in place</li> <li>State-wide control room on standby at Orange</li> <li>Biosecurity &amp; Food Authority infrastructure</li> <li>Import restriction and quarantine</li> <li>Livestock movement restrictions</li> <li>Referral to NPWS for wildlife disease</li> </ul> | Medium                    | Department of<br>Primary<br>Industries |
| Bridge Collapse                           | Failure of a major bridge structure with or<br>without warning owing to structural failure<br>or as a result of external/ internal events or<br>other hazards/ incidents.    | <ul> <li>CMG &amp; Local EMPLAN</li> <li>RMS major structures</li> <li>RMS engineering</li> <li>LG Engineering</li> <li>Response capability with ESOs</li> <li>TMP for diversions by TMC</li> </ul>  | Low                       | LEOCON                                 |
| Building Collapse                         | Collapse of building owing to structural failure or impact from external/internal event of other hazards /incidents.   | <ul> <li>USAR trained ESO, RFS, FRNSW, SES, Ambulance<br/>Rescue agencies</li> <li>ED health facilities</li> <li>ESOs to respond</li> <li>CMG in Local EMPLAN</li> <li>Building codes</li> </ul>   | Low                       | FRNSW (USAR)<br>LEOCON                 |

### February 2021

| Hazard                          | Risk Description  | Risk Controls  | Residual<br>Risk Priority | Combat/<br>Responsible<br>Agency |
|---------------------------------|---|--|---------------------------|----------------------------------|
| Communicable<br>Disease (Human) | Pandemic illness that affects, or has potential<br>to affect, large portions of the human<br>population | <ul> <li>Utilities ability to respond and assist.</li> <li>Council Engineering services</li> <li>Public works advisory service NSW engineers</li> <li>Media management (build into all hazards)</li> <li>CMG local for EMPLAN across Region</li> <li>Vaccination programs</li> <li>PPE</li> <li>Media</li> <li>Working with External agencies as advisors</li> <li>Assist with immunisation</li> <li>Social Distancing</li> <li>Disinfection</li> <li>NSW cache of immunisation and other resources, eg field hospital</li> <li>Pandemic state sub plan</li> </ul> | High                      | Department of<br>Health          |
| Dam Failure                     | A dam is compromised that results in localised or widespread flooding.                                  | <ul> <li>DSEP – 5 registered dams in Far West but approx. 25 dams in far west including tailings and farm storages.</li> <li>Menindee lakes</li> <li>SES local flood plans</li> </ul>  | Low                       | Dam Owners<br>NSW SES            |
| Earthquake                      | Earthquake of significant strength that results in localised or widespread damage.                      | <ul> <li>Building Codes</li> <li>Historical mapping of faults</li> <li>USAR training with FRNSW &amp; SES, RFS. AMBOs, health</li> <li>Current health, rescue agencies and infrastructure</li> <li>RA for Mineral Resources</li> <li>Seismic monitoring</li> <li>Local Mines seismic monitoring</li> <li>Existing EM Plans for weir and dams, roads</li> </ul>   | Low                       | LEOCON                           |

| Hazard                  | Risk Description   | Risk Controls  | Residual<br>Risk Priority | Combat/<br>Responsible<br>Agency |
|-------------------------|--|--|---------------------------|----------------------------------|
|                         |  | Dam safety committee RA major dams, weirs reservoirs<br>structures   |                           |                                  |
| Fire (Bush or<br>Grass) | Major fires in areas of bush or grasslands.  | <ul> <li>Local CMG for Bush fire</li> <li>Bush Fire RMP</li> <li>Bush Fire s52 plan (operations plan)</li> <li>Fire danger rating index. 4 day outlook from BOM prediction.</li> <li>Weather district</li> <li>Media distribution of dangers via RFS Website</li> <li>Media fire prevention campaigns</li> <li>RFS resourcing and training. Preparedness.</li> <li>BFMCF</li> <li>Operation Tronto (Police &amp; RFS)</li> <li>Relationships with NPWS to close public areas in times of high risk</li> <li>Interagency relationships</li> <li>Radio comms infrastructure in place and growing.</li> <li>Mobile radio facilities to increase isolated radio coverage in fire areas.</li> </ul> | Low                       | NSW RFS<br>FRNSW                 |
| Fire (Industrial)       | Serious industrial fire in office complexes and/or warehouses within industrial estates.             | <ul> <li>FRNSW in place</li> <li>Relationships with all ESOs</li> <li>Hazmat capability of FRNSW</li> <li>Building codes</li> <li>Fire regulations</li> </ul>  | Low                       | FRNSW<br>NSW RFS                 |
| Fire<br>(Commercial)    | Serious commercial fires in shopping centres,<br>aged persons units, nursing homes and<br>hospitals. | <ul> <li>FRNSW in place</li> <li>Relationships with all ESOs</li> <li>Hazmat capability of FRNSW</li> <li>Building codes</li> </ul>  | Low                       | FRNSW<br>NSW RFS                 |

| Hazard             | Risk Description   | Risk Controls   | Residual<br>Risk Priority | Combat/<br>Responsible<br>Agency |
|--------------------|--|---|---------------------------|----------------------------------|
|                    |  | Fire regulations  |                           |                                  |
| Fire (Residential) | Serious residential fire in medium/high rise                                 | FRNSW in place  | Low                       | FRNSW                            |
|                    | apartments.  | <ul> <li>Relationships with all ESOs</li> </ul>                                   |                           | NSW RFS                          |
|                    |  | Hazmat capability of FRNSW  |                           |                                  |
|                    |  | Building codes  |                           |                                  |
|                    |  | Fire regulations  |                           |                                  |
| Flood (Flash)      | Heavy rainfall causes excessive localised                                    | <ul> <li>Flood emergency sub plans volume 1,2,3</li> </ul>                        | Low                       | NSW SES                          |
|                    | flooding with minimal warning time   | Flood mitigation  |                           |                                  |
|                    |  | Local CMGs  |                           |                                  |
|                    |  | Media management for warnings and media messaging                                 |                           |                                  |
|                    |  | SES in place.   |                           |                                  |
| Flood (Riverine)   | River flows exceed the capacity of normal                                    | <ul><li>Flood emergency sub plans volume 1,2,3</li><li>Flood mitigation</li></ul> | Low                       | NSW SES                          |
|                    | river systems resulting in flood waters escaping and inundating river plains | <ul> <li>Flood mitigation</li> <li>Local CMGs</li> </ul>                          |                           |                                  |
|                    | escaping and inditidating river plains                                       | <ul> <li>Media management for warnings and media messaging</li> </ul>             |                           |                                  |
|                    |  | <ul> <li>SES in place.</li> </ul>   |                           |                                  |
|                    |  | <ul> <li>Media warning</li> </ul>   |                           |                                  |
|                    |  | <ul> <li>Stock and farm preparation</li> </ul>                                    |                           |                                  |
| Hazardous          | Hazardous material released as a result of an                                | FRNSW combat agency   | Low                       | FRNSW                            |
| Release            | incident or accident.  | Council regs for storage  | 2011                      |                                  |
|                    |  | • Planning & Environment Resource Reg mine site audits,                           |                           |                                  |
|                    |  | & RA  |                           |                                  |
|                    |  | MSDS requirements   |                           |                                  |
| Heatwave           | A sequence of abnormally hot conditions                                      | Heatwave state sub plan   | Low                       | REOCON                           |
|                    | having the potential to affect a community                                   | Community monitoring  |                           |                                  |
|                    | adversely.   | Resilience of community   |                           |                                  |
|                    |  | BOM weather reports   |                           |                                  |
|                    |  | Media management.   |                           |                                  |

| Hazard                           | Risk Description  | Risk Controls  | Residual<br>Risk Priority | Combat/<br>Responsible<br>Agency |
|----------------------------------|---|--|---------------------------|----------------------------------|
| Landslip                         | Landslip/landslide resulting in localised or widespread damage.   | Council codes  | Low                       | LEOCON                           |
| Major Hazard<br>Facility (MHF)   | Major Hazard Facility within area creates [ID facility and risk]  | <ul> <li>Registered Contaminated sites?</li> <li>Mine sites with explosives and chemicals</li> <li>Natural gas pipeline and pumping station near Cobar –<br/>Bulla Park.</li> <li>Location specific Emergency Management Plans</li> </ul>                | Low                       | REOCON                           |
| Storm                            | Severe storm with accompanying lightning,<br>hail, wind, and/or rain that causes severe<br>damage and/or localised flooding.(includes<br>tornado)   | <ul> <li>State Storm Plan</li> <li>Mitigation projects through LGA, Water NSW.</li> <li>BOM weather warnings</li> <li>(early warning hole on radar coverage. Increase coverage BH, Cobar)</li> </ul>   | Medium                    | NSW SES                          |
| Transport<br>Emergency (Air)     | Aircraft crashes in LGA resulting in large<br>number of fatalities, injuries and/or damage<br>to property.  | <ul> <li>CASA regulations</li> <li>Local Airport Plans</li> <li>AusSAR</li> </ul>  | Low                       | LEOCON                           |
| Transport<br>Emergency<br>(Road) | A major vehicle accident that disrupts one or<br>more major transport routes that can result<br>in risk to people trapped in traffic jams,<br>restrict supply routes and/or protracted loss<br>of access to or from the area. | <ul> <li>ESOs &amp; rescue capability</li> <li>Traffic management plans</li> <li>RMS engineering and maintenance</li> <li>Wide load</li> <li>Barrier Highway Committee</li> <li>Media road safety campaigns</li> <li>Drug and alcohol testing</li> </ul> | Low                       | LEOCON                           |
| Transport<br>Emergency (Rail)    | A major rail accident that disrupts one or<br>more major rail routes that can result in risk<br>to restriction of supply routes and/or<br>protracted loss of access to or from the area.                                      | Pacific national, John Holland, ARTC control centres.  | Low                       | LEOCON                           |

| Hazard                               | Risk Description   | Risk Controls  | Residual<br>Risk Priority | Combat/<br>Responsible<br>Agency       |
|--------------------------------------|--|--|---------------------------|--|
| Transport<br>Emergency<br>(Maritime) | A major accident that results in<br>environmental damage and major recovery<br>operation                                   | No issues  | Low                       | Relevant Port /<br>Maritime /<br>FRNSW |
| Tsunami                              | A tsunami wave of magnitude that presents a risk to land and marine elements.  | No issues  | Low                       | NSW SES                                |
| Utilities Failure                    | Major failure of essential utility for<br>unreasonable periods of time as a result of a<br>natural or man-made occurrence. | <ul> <li>Backup supply in vulnerable facilities</li> <li>Desalination plant for water, pipelines</li> <li>Telecomm – landlines to cover mobile,</li> </ul> | Medium                    | LEOCON                                 |

### **Historical Events**

### **RIVERINE FLOODS**

Riverine flooding in the Far West Region usually affects several Local Government Areas concurrently in a relatively slow rolling impact as flood waters travel along the main river systems and tributaries of the Darling/ Barwon River.

Riverine flooding can affect large parts of the Murray Darling River Basin however usually only impacts a relatively small number of people due to the sparsely populated Far West Region.

Recent historical events have realised evacuations of some smaller townships eg, Weilmoringle and Goodooga in 2010, 2011 and 2012 primarily due to the impacts of isolation. Although evacuations remain an option, NSW SES provide aerial and land support to these isolated communities allowing them to remain in place during smaller flood events.

Historical events have also led to larger evacuations eg, Nyngan in 1990 where the whole township was evacuated to Dubbo after the levee was breached and the town inundated.

Riverine flood events typically last for months throughout the Region due to the relatively flat flood plain.

### LOCALISED FLASH FLOODING

Localised severe thunderstorm activity can result in flash flooding of many towns in the Far West. Flash flooding of these towns often results in minor building inundation, brief traffic diversions, vehicle damage and land erosion. Broken Hill and Cobar are often subject to flash flooding several times a year.

#### FIRES

Historically, large fire events in the region are generally grass and scrub fires linked directly to high rainfall years prior to the events. High fuel loads dry off over the hotter months causing higher risk of large scale fire events. The higher summer temperatures with low humidity over a lengthy summer season also increase the fire risks in the area, especially when high fuel loads are evident.

Periods of hot, dry weather after high rainfall seasons have resulted in large scale fire events eg, 1974/5 where huge tracts of grasslands were burnt across the region.

Large Scale events usually occur in the north of the region in the flat grass and scrub lands.

RFS is well resourced to combat these fire events with rural brigades spread throughout the region.

Larger fire events in the Far West are usually controlled from the Fire Control Centres at Bourke, Cobar or Dareton.

### MOTOR VEHICLE COLLISIONS

Motor vehicle collisions occur regularly on region highways, main, local and private roads. Risks from a Region perspective may include;

- Large multi-trailer haulage vehicles with complex loads.
- Oversize transports that may disrupt traffic flow,
- Heavy vehicles with hazardous loads,
- Fatally or critically injured occupants from collisions,
- Stock transport rollovers with injured and dead animals.

Challenges for Responders to Motor Vehicle collisions in the Far West Region will include;

- Location
  - Distance to an incident results in travel delays for responders.

- Identifying the exact incident location so that responders may be activated from the closest, most appropriate location.
- Delays for Region resources to assist due to compounded distance to the incident location.
- Resources
  - Local resources may not exist or are unavailable, and may require escalation to a Region resource.
  - Investigation resources may be required from outside the local area.
  - Inadequate local response resources may require escalation to region or state level resources.
- Casualties
  - RFDS may be required for patient transport.
  - Patients may need to be transported Intrastate or interstate due to inadequate local medical facilities.
- Traffic
  - Road closures may be necessary
  - Traffic management and control may need to be coordinated and/or escalated to Region.
  - Traffic diversions may need to be established and/or engineered.
- Clean-up
  - Clean-up of waste or hazardous material may need Region support
  - Round-up, triage or transportation of stock may require Region Support
  - Towing may need to be arranged from outside the local area.

## Part 3 – Local Emergency Management Plans

## Annexure C – Local EMPLAN Inventory

It is inherent that the Regional EMPLAN have a strong link to the Local EMPLANs to ensure that the community requirements and major hazards and risks identified are catered for. The REMC have clear Governance responsibilities to ensure that the standard of all Local EMPLANs meet the prescribed standard and enable the Region to prepare for and provide support to LEMCs as anticipated. Annexure C provides a summary of all endorsed Local EMPLANs and supplement Consequence Management guides and key regional planning considerations.

| LEMC Local<br>EMPLAN | CMG's for this Hazard for each LEMC   | Responsible Agency                    |
|----------------------|---------------------------------------|---------------------------------------|
| Balranald            | Bridge Closure – Balranald Bridge     | NSW Police                            |
|                      | Fire - Commercial                     | Fire + Rescue NSW                     |
|                      | Fire - Residential                    | Fire + Rescue NSW                     |
|                      | Flood                                 | NSW State Emergency Service           |
|                      | Hazardous material                    | Fire + Rescue NSW                     |
|                      | Pandemic                              | NSW Health                            |
|                      | Transport Accident - Air              | Local Emergency Operations Controller |
|                      | Transport Accident - Heavy<br>Vehicle | NSW Police                            |
| Bogan                | Flood                                 | NSW State Emergency Service           |
|                      | Mine Emergency                        | Local Emergency Operations Controller |
|                      | Storm                                 | NSW State Emergency Service           |
| Bourke               | Fire - Bush                           | NSW Rural Fire Service                |
|                      | Fire - Structural                     | Fire + Rescue NSW                     |
|                      | Flood                                 | NSW State Emergency Service           |
|                      | Hazardous materials                   | Fire + Rescue NSW                     |
|                      | Storm                                 | NSW State Emergency Service           |
|                      | Transport Accident – Air              | Local Emergency Operations Controller |
| Brewarrina           | Fire - Structural                     | Fire + Rescue NSW                     |
|                      | Flood                                 | NSW State Emergency Service           |
|                      | Hazardous materials                   | Fire + Rescue NSW                     |
|                      | Storm                                 | NSW State Emergency Service           |
| Broken Hill          | Earthquake                            | Local Emergency Operations Controller |
|                      | Fire - Commercial                     | Fire + Rescue NSW                     |
|                      | Fire -Industrial                      | Fire + Rescue NSW                     |
|                      | Hazardous materials                   | Fire + Rescue NSW                     |

### **Endorsed Local EMPLANS and CMGs**

| LEMC Local<br>EMPLAN | CMG's for this Hazard for each LEMC | Responsible Agency                    |
|----------------------|-------------------------------------|---------------------------------------|
|                      | Mine Emergency                      | Local Emergency Operations Controller |
|                      | Pandemic                            | NSW Health                            |
|                      | Storm                               | NSW State Emergency Service           |
|                      | Structural Collapse                 | Fire + Rescue NSW                     |
| Central Darling      | Flood                               | NSW State Emergency Service           |
|                      | Storm                               | NSW State Emergency Service           |
| Cobar                | Flood                               | NSW State Emergency Service           |
|                      | Hazardous materials                 | Fire + Rescue NSW                     |
|                      | Mine Emergency                      | Local Emergency Operations Controller |
|                      | Transport Accident – Air            | Local Emergency Operations Controller |
| Wentworth            | Flood                               | NSW State Emergency Service           |
|                      | Hazardous materials                 | Fire + Rescue NSW                     |
|                      | Storm                               | NSW State Emergency Service           |
|                      | Structural Collapse                 | Fire + Rescue NSW                     |

# Key Regional Planning Considerations for Hazards.

The following table recognises key regional planning considerations identified after analysis of hazards and risks in Far West Region Local EMPLANs and Consequence Management Guides. These tables deal with hazards generic to all LGAs in the Region, as well as hazards specific to some LGAs.

| Hazard            | Regional Hazards<br>Overview   | Key Regional Planning Considerations  | LEMCs <sup>31</sup> | References  |
|-------------------|--|---|---------------------|---|
| Bridge<br>Closure | The closure of bridges over the<br>Murray River for protracted<br>periods may pose significant<br>inconvenience to local<br>communities, and inhibit<br>economic continuity by delaying<br>cross border freight and people<br>movement. Some local<br>communities also rely on cross<br>border emergency services in<br>communities. TfNSW have pre-<br>planned Traffic Management<br>Plans for all border river<br>crossings on the Murray River. | <ul> <li>See "Heavy Vehicle Accident" and "Hazardous Material" hazards above – cause and effect.</li> <li>Engineers may be required from a Region level to assist with advice on impacted infrastructure.</li> <li>An EOC may be required to manage event, especially in initial stages. Region resources will be required to assist with EOC.</li> <li>Victorian Emergency Management resources may be required to assist. Coordination through EOC.</li> <li>Local river crossings may be desirable. Region resources from SES or VRA may be required to assist.</li> <li>Out of area support may be required from police to facilitate security of the site.</li> <li>Other support agencies may require out of area or Region resources to support a protracted closure.</li> </ul> | Balranald           | <ul> <li>Relevant Local</li> <li>EMPLAN "Bridge</li> <li>Closure" CMG</li> <li>TfNSW Traffic</li> <li>Management Plans</li> </ul>   |
| Earthquake        | A significant earthquake is<br>possible in any part of the<br>Region. A sizable quake could<br>potentially decimate<br>communities and infra-<br>structure, cause substantial loss<br>of life, and result in lengthy,<br>complex rescue operations,  | <ul> <li>Urban Search and Rescue resources may be required from Region and State Level.</li> <li>An EOC may be required to manage event. Region resources will be required to assist with EOC.</li> <li>Engineers may be required from a Region level to assist with advice on impacted infrastructure.</li> <li>Damage to utilities may require Region level assistance to contain and/or repair.</li> </ul>   | Broken Hill         | <ul> <li>Relevant local<br/>EMPLAN<br/>"Earthquake" CMG.</li> <li>State "Major<br/>Structural Collapse"<br/>Sub Plan.</li> <li>Evacuation Centre<br/>Guidelines.</li> </ul> |

<sup>31</sup> List of LEMCs who have identified this hazard as a significant risk in their LGAs.

| Hazard               | Regional Hazards<br>Overview   | Key Regional Planning Considerations  | LEMCs <sup>31</sup>      | References  |
|----------------------|--|---|--------------------------|---|
|                      | evacuations and protracted and<br>costly recovery. All communities<br>in the Region will require Region<br>and State resources to assist in<br>the event of a damaging<br>earthquake.  | <ul> <li>Any Evacuation Centre established will require Region support especially with Functional Areas.</li> <li>Region health support from FWLHD may be required for advice on health impacts as required.</li> <li>State PIFAC resources may be required to assist media requirements.</li> <li>Region level EPA resources may be required for environmental pollution advice.</li> <li>DPI/LLS support for domestic or companion animal welfare issues</li> <li>Recovery support may be required from the Region or State level.</li> <li>Remote impacted locations may be impossible to airlift support resources into.</li> <li>If ADF assistance is considered there is a 10 hour lead time plus travel time. Resources will come out of Sydney. Utilise DACC arrangements. Requests through REMC JOSS Liaison.</li> </ul> |                          |   |
| Fire - Bush          | NSW RFS are well resourced and<br>prepared to combat bush fires in<br>the Region. Brigades are<br>distributed throughout the<br>region. Significant incidents in<br>areas west of Bourke, Cobar or<br>Dareton will be controlled from<br>an RFS FCC in one of those<br>towns. Much of the Region is<br>broad areas of scrub and<br>grasslands. | <ul> <li>Transport of heavy plant may be needed throughout the region.</li> <li>Air assets for a large operation will be deployed from Dubbo.</li> <li>Any EOC established may require Region level support, especially from Functional Areas.</li> <li>Damage to utilities may require Region level assistance to contain and/or repair.</li> <li>Any Evacuation Centre established will require Region support especially with Functional Areas.</li> <li>Protracted operations may require operational support from Region assets.</li> </ul>  | Bourke                   | <ul> <li>Local EMPLAN<br/>"Bush Fire" CMG</li> <li>Local "Bush Fire"<br/>Plans</li> <li>State "Bush Fire"<br/>Sub Plan</li> </ul> |
| Fire -<br>Commercial | There are very few commercial<br>premises in the Far West Region<br>that are more than two stories<br>in height. Generally local   | <ul> <li>Presence of Hazardous materials. May required support from region or state resources.</li> <li>If investigators are required the may come from out of area.</li> </ul>   | Balranald<br>Broken Hill | <ul> <li>Balranald Local</li> <li>EMPLAN</li> <li>"Commercial Fire"</li> <li>CMG</li> </ul>                                       |

| Hazard                | Regional Hazards<br>Overview   | Key Regional Planning Considerations   | LEMCs <sup>31</sup>     | References   |
|-----------------------|--|--|-------------------------|--|
|                       | resources should manage most<br>commercial fires unless the fires<br>become too large or complex.<br>Out-of-area or region resources<br>may be required for fire-fighting<br>or hazmat. RFS may be<br>requested to assist FRNSW.<br>Where FRNSW assets do not<br>exist in smaller communities<br>NSW RFS are primary fire<br>responders for those<br>communities. FRNSW have a<br>footprint in most larger<br>communities in the region.<br>Some types of fires may also<br>challenge local resources and<br>require additional specialist<br>Region or State support. | <ul> <li>Current MOU with Victorian CFA if cross border assistance is required. Similar assistance may be offered into Queensland and South Australia.</li> <li>Any EOC established may require Region level support, especially from Functional Areas.</li> <li>Region level Transport for NSW resources may be required to assess any infrastructure damage.</li> <li>TfNSW may need to implement existing Traffic Management Plans, or assist with traffic management planning in consultation with Incident Controller for FRNSW.</li> <li>Damage to utilities may require Region level assistance to contain and/or repair.</li> <li>Any Evacuation Centre established will require Region support especially with Functional Areas.</li> <li>Region health support from FWLHD may be required for advice on health impacts as required.</li> <li>State PIFAC resources may be required to assist media requirements.</li> <li>Region level EPA resources may be required for environmental pollution advice.</li> <li>DPI/LLS support for domestic or companion animal welfare issues</li> <li>Recovery support may be required from the Region or State level.</li> </ul> |                         | <ul> <li>Fire Brigades Act</li> <li>SERM Act</li> <li>FRNSW Pre Incident<br/>Plans and Standard<br/>Operational<br/>Guidelines.</li> </ul>                   |
| Fire -<br>Residential | There are very few residential<br>premises in the Far West Region<br>that are more than two stories<br>in height. Generally local<br>resources should manage most<br>residential fires unless the fires<br>spread and become too large to<br>for local resources to cope. Out-<br>of-area or region resources may  | <ul> <li>Presence of Hazardous materials. May required support from region or state resources.</li> <li>Are investigators required. May come from out of area.</li> <li>Current MOU with Victorian CFA if cross border assistance is required.</li> <li>Less likely to require assistance external to the local area for this particular hazard.</li> <li>Region assistance may be required if an EOC is necessary, especially with functional areas.</li> </ul>   | Balranald<br>Brewarrina | <ul> <li>Relevant Local<br/>EMPLAN</li> <li>"Residential Fire"</li> <li>CMG</li> <li>Fire Brigades Act.</li> <li>SERM act/ Fire<br/>Brigades act.</li> </ul> |

| Hazard | Regional Hazards<br>Overview   | Key Regional Planning Considerations   | LEMCs <sup>31</sup>  | References  |
|--------|--|--|--|---|
|        | be required for fire-fighting. RFS<br>may be requested to assist<br>FRNSW. Where FRNSW assets<br>do not exist in smaller<br>communities NSW RFS are<br>primary fire responders for<br>those communities. FRNSW<br>have a footprint in most larger<br>communities in the region.  | <ul> <li>Transport for NSW may be needed to assist with traffic management and/or implementing existing Traffic Management Plans.</li> <li>Engineers may be required from a Region level to assist with advice on impacted infrastructure.</li> <li>Region support will be necessary if Evacuation Centre/s are required.</li> <li>Region health resources may be required for public health advice and warnings.</li> <li>State level PIFAC may be required to assist with media liaison.</li> <li>Region level EPA resources may be required for environmental pollution advice.</li> <li>Region resources may be required from DPI/LLS for assistance with companion or domestic animals.</li> <li>Recovery support may be required from the Region or State level.</li> </ul>  |  | <ul> <li>Site Pre Incident<br/>Plans – Accessible<br/>electronically by<br/>FRNSW staff.</li> <li>Local Disaster<br/>Welfare Plan.</li> </ul> |
| Flood  | Riverine flooding in the Far West<br>Region usually affects several<br>Local Government Areas<br>concurrently in a relatively slow<br>rolling impact as flood waters<br>travel along the main river<br>systems and tributaries of the<br>Darling/ Barwon River.<br>Riverine flooding can affect large<br>parts of the Murray Darling River<br>Basin however usually only<br>impacts a relatively small<br>number of people due to the<br>sparsely populated Far West<br>Region. SES are well-practised | <ul> <li>Flood may concurrently cross over many different LGA or Region boundaries.</li> <li>Any Evacuation Centre established will require Region support especially with Functional Areas.</li> <li>Possibly need to work with Victorian agencies. The Victorian CFA has a good MOU with FRNSW. MOUs are also in place with SES and other ESOs.</li> <li>Bases for Aerial operations including fuel, security, accommodation or hangars. Will need Region and State assistance with coordination.</li> <li>Augmentation of local resources from Region locations.</li> <li>Any EOC established may require Region level support, especially from Functional Areas.</li> <li>Where to accommodate resources that are brought in from agencies to assist.</li> <li>DPI/LLS support for domestic or companion animal welfare issues for isolated or quarantined people.</li> <li>Specialist vehicles may need to be brought in. Consider vehicle capability. May need to be coordinated at the Region level.</li> </ul> | Balranald<br>Bogan<br>Bourke<br>Brewarrina<br>Central<br>Darling<br>Cobar<br>Wentworth | <ul> <li>SES Local "Flood"<br/>Plan (relevant<br/>LGAs).</li> <li>State "Flood" Plan.</li> <li>Dept. of Defence –<br/>DACC manual.</li> </ul> |

| Hazard                | Regional Hazards<br>Overview  | Key Regional Planning Considerations   | LEMCs <sup>31</sup>  | References  |
|-----------------------|---|--|--|---|
|                       | and prepared to respond to flood events in the region.  | <ul> <li>Flood Rescue capability may be required from Region Level.</li> <li>Sewer plant impact – possibly need resources from other LGAs.</li> <li>If ADF assistance is considered there is a 10 hour lead time plus travel time.<br/>Resources will come out of Sydney. Utilise DACC arrangements. Requests through REMC JOSS Liaison.</li> <li>May need Region support to sustain resources - Fuel, accommodation, replacement staffing etc.</li> <li>Command and control arrangements. Structure, Liaison, ICT location.<br/>Command and Control may be regionalised to cover several LGAs.</li> <li>May require Region resources to set up evacuation centres if required.</li> <li>Evacuations may be directed to Dubbo for northern river towns.</li> </ul>   |  |   |
| Hazardous<br>Material | The Far West Region is a main<br>thoroughfare for freight<br>travelling east/west and<br>north/south inter and intrastate.<br>Both road and rail lines in the<br>region carry large tonnages of<br>freight. FRNSW have hazmat<br>capability in locations where<br>they have a footprint and can<br>call on further Region and State<br>resources as required. | <ul> <li>Extreme heat on roads may affect response.</li> <li>Large distances may increase response times.</li> <li>FRNSW may require additional Region or out-of-area specialist resources.</li> <li>Any EOC established may require Region level support, especially from Functional Areas.</li> <li>Region level Transport for NSW resources may be required to assess any infrastructure damage.</li> <li>TfNSW may need to implement existing Traffic Management Plans, or assist with traffic management planning in consultation with Incident Controller for FRNSW.</li> <li>Damage to utilities may require Region level assistance to contain and/or repair.</li> <li>Any Evacuation Centre established will require Region support especially with Functional Areas.</li> <li>Region health support from FWLHD may be required for advice on health impacts as required.</li> <li>State PIFAC resources may be required to assist media requirements.</li> </ul> | Balranald<br>Cobar<br>Brewarrina<br>Bourke<br>Broken Hill<br>Wentworth | <ul> <li>Relevant Local<br/>EMPLAN<br/>"Hazardous<br/>Material" CMG.</li> <li>Fire Brigades Act</li> <li>Site Pre Incident<br/>Plans – Accessible<br/>electronically by<br/>FRNSW staff</li> <li>State "Hazardous<br/>Materials/Chemical,<br/>Biological,<br/>Radiological and<br/>Nuclear" Sub Plan</li> </ul> |

| Hazard   | Regional Hazards<br>Overview   | Key Regional Planning Considerations  | LEMCs <sup>31</sup> | References                    |
|----------|--|---|---------------------|-------------------------------|
|          |  | <ul> <li>Region level EPA resources may be required for environmental pollution advice.</li> <li>DPI/LLS support for domestic or companion animal welfare issues</li> <li>Recovery support may be required from the Region or State level.</li> </ul>   |                     |                               |
| Heatwave | All local governments areas in<br>the Far West Region have<br>experience with prolonged<br>extreme heat events and these<br>are experienced significantly<br>more often than a Heatwave<br>Sub-Plan activation occurs. In<br>the main these communities are<br>relatively resilient to heatwave<br>events where, generally,<br>contemporary government and<br>private infrastructure is<br>constructed with extreme heat<br>in mind. Most Far West<br>agencies, especially health, have<br>robust lines of communication<br>with vulnerable community<br>members through the LHD and<br>small Community Health<br>Services. Heatwave Events are<br>considered High Risk! | <ul> <li>High temperature events in the Far West are usually more numerous, more severe and last longer than events in the eastern parts of the state. However, they generally do not meet the BoM criteria for a "Heatwave"<sup>32</sup>.</li> <li>Most Far West Communities expect prolonged high temperature events each summer and for this reason are relatively resilient in regard to them.</li> <li>Local Health Services, NSW Ambulance, and other local emergency services, are well informed about members of the community who may be vulnerable to prolonged hot weather and Heatwaves.</li> <li>Heatwaves will impact on the ability of agencies to respond and sustain operators and equipment into impacted areas.</li> <li>Historically, communications infrastructure may be impacted by excessive heat causing agencies difficulties with contacting first responders, especially those that rely on mobile phones.</li> </ul> | Nil<br>recognised.  | State "Heatwave"<br>Sub-Plan. |

<sup>&</sup>lt;sup>32</sup> BoM – "A heatwave occurs when the maximum and the minimum temperatures are unusually hot over a three-day period at a location".

| Hazard            | Regional Hazards<br>Overview   | Key Regional Planning Considerations  | LEMCs <sup>31</sup>                   | References  |
|-------------------|--|---|---------------------------------------|---|
| Mine<br>Emergency | There is a variety of<br>underground and open cut hard<br>rock mining in the far west. All<br>commercial operations are well<br>prepared with, generally, their<br>own mines rescue units. Mines<br>are monitored by the Resources<br>Regulator. An underground<br>incident that causes a protracted<br>rescue will result in significant<br>local, state, national and<br>international interest.   | <ul> <li>A protracted mine emergency will see significant media interest at the site.</li> <li>Local company rescue resources will likely be quickly overwhelmed in a protracted event requiring specialist support from across the state and the country.</li> <li>If needed it is likely an EOC will need Region support to function.</li> <li>In a protracted mine rescue emergency Region, State or Commonwealth support will be required for security, media, health and mental health, welfare, transport, air safety, rescue and more.</li> <li>Many mine sites contain large storages of industrial chemicals and explosives. Emergencies involving any of these may require Region level support.</li> <li>Transport of industrial chemicals and explosives to and from mine sites also poses a risk on outback roads.</li> <li>Hazmat emergencies at or near mine sites may also require specialist Region or state resources to assist.</li> </ul> | Bogan<br>Broken Hill<br>Cobar         | <ul> <li>Relevant Local<br/>EMPLAN "Mine<br/>Emergency" CMG.</li> <li>State Mine Sub Plan</li> </ul>  |
| Pandemic          | It is recognised that any<br>pandemic will likely impact all<br>local government areas in the<br>Region. Response will be<br>coordinated by the Local Health<br>District as Combat Agency with<br>appropriate support from Local<br>and Regional resources. The<br>general isolation of most<br>communities in the far west may<br>provide some insulation to the<br>impact of the pandemic, or slow<br>down the impact. Conversely<br>agencies should recognise the<br>pandemic may limit effective | <ul> <li>Any incident will be controlled by LHD resources, likely to be based in Broken Hill (Far West LHD) or Dubbo (Western LHD).</li> <li>Region resources may be required to staff any EOC, in particular from Functional Areas.</li> <li>Police may require Region support to undertake required security measures for isolation and quarantine measures.</li> <li>Police may require Region support for any necessary border closures if and when considered.</li> <li>Region Transport for NSW support will be required to support traffic control measures in the case of quarantine or border closures.</li> <li>Ambulance may require Region support for enhanced transport requirements.</li> <li>Region DPI/LLS support may be required to monitor animal to human/human to animal transmission.</li> </ul>   | Balranald<br>Broken Hill<br>Wentworth | <ul> <li>Relevant Local<br/>EMPLAN<br/>"Pandemic" CMG</li> <li>NSW Health<br/>Influenza Pandemic<br/>Plan.</li> <li>Far West LHD<br/>Influenza Pandemic<br/>Plan.</li> <li>State "Health<br/>Services<br/>(Healthplan)<br/>"Supporting Plan.</li> </ul> |

| Hazard | Regional Hazards<br>Overview   | Key Regional Planning Considerations  | LEMCs <sup>31</sup>   | References  |
|--------|--|---|---|---|
|        | response due to limited<br>resources and infrastructure in<br>communities. There may be a<br>limit to the ability of region<br>resources to response if this is a<br>state wide event.   | <ul> <li>DPI/LLS support for domestic or companion animal welfare issues for isolated or quarantined people.</li> <li>Region Welfare support for persons in isolation, quarantine or evac centres.</li> <li>For larger events gas, water and electrical support may be required from out of area resources.</li> <li>Transport for NSW may be needed to support mass transportation if required.</li> </ul>   |   | <ul> <li>NSW Recovery Plan</li> <li>Aus. Health<br/>Manage. Plan for<br/>Pand. Influenza.</li> <li>NSW State<br/>EMPLAN.</li> </ul> |
| Storms | Storms affect all areas of the Far<br>West Region to varying degrees.<br>SES, as the combat agency, are<br>well practiced and resourced for<br>storm impacts in the Region and<br>have units in most large towns in<br>each LGA. | <ul> <li>Any Evacuation Centre established will require Region support especially with Functional Areas.</li> <li>Any EOC established may require Region level support, especially from Functional Areas.</li> <li>Possibly need to work with Victorian agencies. The Victorian CFA has a good MOU with FRNSW. MOUs are also in place with SES and other ESOs.</li> <li>Bases for Aerial operations including fuel, security, accommodation or hangars. Will need Region and State assistance with coordination.</li> <li>Augmentation of local resources may be required from Region locations.</li> <li>Where to accommodate resources that are brought in from agencies to assist.</li> <li>DPI/LLS support for domestic or companion animal welfare issues for isolated or quarantined people.</li> <li>Specialist vehicles may need to be brought in. Consider vehicle capability. May need to be coordinated at the Region level.</li> <li>If ADF assistance is considered there is a 10 hour lead time plus travel time. Resources will come out of Sydney. Utilise DACC arrangements. Requests through REMC JOSS Liaison.</li> <li>May need Region support to sustain resources - Fuel, accommodation, replacement staffing etc.</li> <li>Command and control arrangements. Structure, Liaison, ICT location. Command and Control may be regionalised to cover several LGAs if required.</li> </ul> | Bogan<br>Bourke<br>Brewarrina<br>Broken Hill<br>Central<br>Darling<br>Wentworth | <ul> <li>Relevant Local<br/>EMPLAN "Storm"<br/>CMG</li> <li>State Storm Sub<br/>Plan</li> </ul>                                     |

| Hazard                         | Regional Hazards<br>Overview  | Key Regional Planning Considerations  | LEMCs <sup>31</sup>          | References   |
|--------------------------------|---|---|------------------------------|--|
| Structural<br>Collapse         | A significant collapse of a<br>building(s) or structure(s)<br>requiring a coordinated multi-<br>agency response for search &<br>rescue purposes or to control<br>further collapse / damage and is<br>beyond the capability of the<br>local resources will require<br>additional Region level<br>resources.  | <ul> <li>A significant structural collapse may require additional USAR resources from<br/>Region or state level.</li> <li>Large distances may increase response times.</li> <li>FRNSW may require additional Region or out-of-area specialist resources.</li> <li>Any EOC established may require Region level support, especially from<br/>Functional Areas.</li> <li>TfNSW may need to implement existing Traffic Management Plans, or assist<br/>with traffic management planning in consultation with Incident Controller for<br/>FRNSW.</li> <li>Any Evacuation Centre established will require Region support especially with<br/>Functional Areas.</li> <li>State PIFAC resources may be required to assist media requirements.</li> </ul>   | Broken Hill<br>Wentworth     | <ul> <li>Relevant Local<br/>EMPLAN "Structural<br/>Collapse" CMG</li> <li>Major Structure Col<br/>lapse State Sub<br/>Plan.</li> </ul>   |
| Transport<br>Accident -<br>Air | In an Air Transport Emergency of<br>any significance local emergency<br>resources in Far West<br>communities will be quickly<br>overwhelmed. Local EOC's may<br>coordinate the response but<br>they will require significant<br>region level resources. The<br>activation of the ROC may be<br>necessary in spite of the<br>distances involved to any impact<br>site. | <ul> <li>Any EOC established may require Region level support, especially from<br/>Functional Areas.</li> <li>Damage to utilities may require Region level assistance to contain and/or<br/>repair.</li> <li>Any Evacuation Centre established will require Region support especially with<br/>Functional Areas.</li> <li>Larger events may require liaison with Federal aviation agencies.</li> <li>State PIFAC resources may be required to assist media requirements.</li> <li>FRNSW may require additional Region or out-of-area specialist resources.</li> <li>Ambulance may require out of area or Region support resources for large<br/>scale incidents.</li> <li>Site security may require additional out-of-area police resources.</li> <li>Recovery support may be required from the Region or State level.</li> </ul> | Balranald<br>Bourke<br>Cobar | <ul> <li>Relevant Local<br/>EMPLAN "Aircraft<br/>Accident" CMG</li> <li>Relevant Local<br/>Airport Emergency<br/>Plan.</li> <li>Evacuation Centre<br/>Guidelines</li> <li>Aviation Emergency<br/>Sub Plan</li> </ul> |
| Transport<br>Accident -        | The region has a large amount of commercial, industrial, horticultural, stock and mining  | <ul> <li>A load containing Hazardous Materials may require additional out of area or<br/>Region support for F+R NSW.</li> <li>Heavy lifting for vehicles may need to come from out of area.</li> </ul>  | Balranald                    | Balranald Local<br>EMPLAN "Heavy   |

| Hazard           | Regional Hazards<br>Overview   | Key Regional Planning Considerations  | LEMCs <sup>31</sup> | References  |
|------------------|--|---|---------------------|---|
| Heavy<br>Vehicle | freight traversing the area. The<br>Barrier Highway is a major<br>transportation route from east<br>to west on the Barrier Hwy.<br>There is also significant freight<br>hauled north and south on the<br>Kidman Way and Silver City Hwy.<br>Most road freight in the area is<br>hauled using multi trailer<br>configurations and often with<br>complex, oversize or hazardous<br>loads. Stock truck rollovers are<br>not uncommon. | <ul> <li>An EOC may be required for a large scale incident. Region resources may be required to staff it.</li> <li>Region level Transport for NSW resources may be required to assess any infrastructure damage, implement existing Traffic Management Plans, or assist with traffic management planning.</li> <li>State PIFAC resources may be required to assist media requirements.</li> <li>Damage to utilities may require Region level assistance to contain and/or repair.</li> <li>Ambulance may require out of area or Region support resources for large scale incidents.</li> <li>DPI/LLS support for domestic or companion animal welfare issues</li> <li>Region LHD support may be required for mental health support.</li> <li>Any Evacuation Centre established will require Region support especially with Functional Areas.</li> </ul> |                     | <ul> <li>Vehicle Accident"</li> <li>CMG.</li> <li>TfNSW existing<br/>Traffic</li> <li>Management Plans.</li> <li>Council Traffic</li> <li>Management Plans.</li> <li>Evacuation Centre<br/>Guidelines.</li> </ul> |

### Part 4 – Sub Plans and Supporting Plans

Responsibility for the preparation and maintenance of appropriate sub and supporting plans rests with the relevant Combat Agency Controller or the relevant Functional Area Coordinator. They form a critical element that outlines the arrangements that are in place to deliver support or control at a Regional and Local level as emergencies arise. There are some specific REMC sub and supporting plans that have also been developed to assist with delivering the outcomes of this EMPLAN. The sub/supporting plans are developed in consultation with the Far West REMC and the community.

The plans listed in Annexure D are supplementary to this EMPLAN. The sub/supporting plans have been endorsed by the REMC and are determined as compliant and complimentary to the arrangements listed in this EMPLAN.

These plans are accessible by the REMO on behalf of the REMC and public release versions are available on the NSW Emergency Website.

## Annexure D – Regional Sub Plan and Supporting Plan Matrices

### **Major Hazard Facilities**

There are no Major Hazard Facilities in the Far West Region.

### Sub and Supporting Plans

Matrices Description

- Combat Agency/Functional Area The entity that is responsible for sub plan or supporting plan.
- Sub-Supporting Plan The name/title of the plan.
- *Triggers* Events or occurrences will result in the activation of the plan.
- Access who from the agency or area will be the contact for activating and maintaining the plan.

# **Combat Agency Sub Plans**

| Combat<br>Agency                           | Sub Plan   | Triggers   | Access                |
|--|--|--|-----------------------|
| Fire & Rescue<br>NSW                       | NSW State Asbestos<br>Emergency Sub<br>Plan                                  | An event involving the release or<br>disturbance of significant amounts of<br>asbestos containing materials requiring<br>a multi-agency coordinated response<br>utilising specialised resources such as<br>occupational hygienists, and licensed<br>asbestos assessors and/or<br>appropriately licensed asbestos<br>removalists.   | FRNSW<br>EnvSFAC      |
| EOCON                                      | NSW State Aviation<br>Emergency Sub<br>Plan                                  | An aviation incident requiring<br>application of the special<br>arrangements for the control and co-<br>ordination of the response within the<br>boundaries of New South Wales<br>(including New South Wales waters).  | REOCON                |
| NSW Department<br>of Primary<br>Industries | Biosecurity (Animal<br>& Plant) Emergency<br>Sub Plan – Version<br>5 – 2017. | An event which threatens Animal,<br>Aquatic or Plant Biosecurity or<br>invertebrate and invasive species.  | NSW DPI               |
| NSW Rural Fire<br>Service                  | Bush Fire Plan   | Any Class 2 or 3 Bushfire or grassfire.  | NSW RFS               |
| NSW State<br>Emergency<br>Service          | Flood Sub Plan   | An event where a relatively highwater<br>level overtops the natural or artificial<br>banks in any part of a stream, river,<br>estuary, lake or dam, and/or local<br>overland flooding associated with<br>drainage before entering a  | NSW SES               |
| NSW Food<br>Authority                      | Food Industry<br>Emergency Sub<br>Plan                                       | Any event which threatens a food<br>industry emergency such as:<br>Microbial, chemical or physical<br>contamination of food deemed to pose<br>a high risk to consumers;<br>Unsafe levels of natural toxins in food;<br>Contagious zoonotic disease outbreak<br>in animals used for the production of<br>food for human consumption;<br>Bioterrorism, sabotage or extortion<br>involving food products;<br>Food supply shortage due to<br>widespread disruption (eg pandemic<br>influenza). | NSW Food<br>Authority |

| Combat<br>Agency                  | Sub Plan  | Triggers   | Access     |
|-----------------------------------|---|--|------------|
| Fire & Rescue<br>NSW              | Hazardous<br>Materials/Chemical,<br>Biological,<br>Radiological and<br>Nuclear Sub Plan | Any imminent or actual, accidental or<br>deliberate release of a hazardous<br>material.  | FRNSW      |
| EOCON                             | Heatwave Sub Plan   | Any heatwave events, or<br>periods of extreme heat where<br>SEOCON considers that activation of<br>this subplan is<br>appropriate and deals specifically with<br>the coordination of information<br>between agencies and to the public in<br>relation to these events.             | EOCON      |
| NSW Health                        | Human Influenza<br>Pandemic Plan  | Any threat or actual human influenza<br>pandemic requiring measures and<br>mitigating strategies to protect the<br>community and minimise the impact of<br>an influenza pandemic on NSW. It<br>encompasses government, non-<br>government services, business and the<br>community. | NSW Health |
| Fire & Rescue<br>NSW              | Major Structure<br>Collapse Sub Plan  | Any event where the collapse of a<br>building(s) or structure(s) requires a<br>coordinated multi-agency response for<br>search & rescue purposes or to control<br>further collapse / damage and is<br>beyond the capability of the local<br>resources.                             | REOCON     |
| EOCON                             | Mine Sub Plan   | Any event at a mine where the<br>arrangements detailed in the individual<br>Mine Emergency Plan are inadequate<br>to deal with the event.  | REOCON     |
| NSW State<br>Emergency<br>Service | NSW Storm Plan  | Any weather event accompanied by<br>wind, tornadoes, intense rain, hail,<br>snow or marine wave/water action of<br>sufficient severity to threaten lives and<br>cause damage to property, vehicles,<br>infrastructure, vegetation and the<br>coastal environment.                  | NSW SES    |

# **Functional Area Supporting Plans**

| Functional Area                    | Supporting Plan   | Area(s)   | Access                                 |
|------------------------------------|---|---|--|
| Agriculture and<br>Animal Services | DPI Management of livestock transport accident responses  | All LGAs in the Far<br>West Region  | Primary<br>Industries<br>Biosecurity   |
|                                    | LLS Procedure – Attendance at<br>truck accidents requiring<br>assessment and destruction of<br>injured livestock. | All LGAs in the Far<br>West Region  | Western LLS –<br>Operations<br>Manager |
|                                    | Local Land Services Policy –<br>Livestock Transport Incidents   | All LGAs in the Far<br>West Region  | Western LLS –<br>Operations<br>Manager |
|                                    | LLS – Livestock Transport incidents<br>: Cost Recovery  | All LGAs in the Far<br>West Region  | Western LLS –<br>Operations<br>Manager |
|                                    | NSW State Agriculture and Animal<br>Services Area Supporting Plan,<br>Ver. 2 - 2017                               | All LGAs in the Far<br>West Region  | Regional AASFAC                        |
| Engineering Services               | NSW State Engineering Services<br>Supporting Plan   | All LGA's in Far West<br>Emergency<br>Management Region   | Regional ESFAC                         |
| Environmental<br>Services          | NSW State Environmental Services<br>(ENVIROPLAN) Supporting Plan  | All LGA's in Far West<br>Emergency<br>Management Region   | Regional EnvSFAC                       |
|                                    | Interim advice regarding animal mass carcass disposal.  | All LGAs in the Far<br>West Region  | Central West<br>Region Unit Head.      |
| Health Services                    | Far West Local Health District<br>Health Services Functional Area<br>Supporting Plan                              | Balranald LGA,<br>Wentworth LGA,<br>Broken Hill LGA,<br>Central Darling LGA,<br>Unincorporated<br>Area of NSW | Far West LHD<br>Disaster<br>Manager.   |
|                                    | NSW State Health Services<br>(HEALTHPLAN) Supporting Plan   | All LGA's in Far West<br>Emergency<br>Management Region   | Regional HSFAC                         |
| Public Information<br>Services     | NSW State Public Information<br>Services Supporting Plan  | All LGA's in Far West<br>Emergency<br>Management Region   | REOCON or Police<br>Commander          |
| Transport Services                 | NSW State Transport Services<br>Supporting Plan   | All LGA's in Far West<br>Emergency<br>Management Region   | Regional TSFAC                         |
| Welfare Services                   | NSW State Welfare Services<br>Functional Area Supporting Plan   | All LGA's in Far West<br>Emergency<br>Management Region   | Regional WELFAC                        |

| Functional Area                  | Supporting Plan  | Area(s)   | Access                                     |
|----------------------------------|--|---|--|
| Energy and Utilities<br>Services | NSW State Energy and Utilities<br>Services Supporting Plan | All LGA's in Far West<br>Emergency<br>Management Region     | State EUSFAC<br>through REOCON             |
| Maritime Services                | N/A  | N/A   | Not required in<br>the Far West<br>Region. |
| Telecommunications<br>Services   | Telecommunication Services<br>(TELCOPLAN) Supporting Plan  | All LGA's in Central<br>West Emergency<br>Management Region | State TelcoFAC<br>through REOCON           |