

Mid-Western Regional Local Emergency Management Plan



Version Control

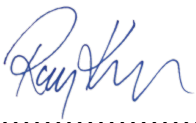
Version	Date	Change/s	Author
1.0	07 June 2021	- Update Neighbourhood Safer Places - Building collapse CMG – update responsible agency to FRNSW	R Kearns
1.1	24 June 2021	- Update Neighbourhood Safer Places (Hargraves and Birriwa)	A Gleeson

Part 1 – ADMINISTRATION

Authority

The MID-WESTERN REGIONAL Local Emergency Management Plan (EMPLAN) has been prepared by the Mid-Western Regional Local Emergency Management Committee in compliance with the State Emergency & Rescue Management Act 1989.

APPROVED



.....

Chair

Mid-Western Regional Local Emergency Management Committee

Dated: 25 June 2021

Official - Sensitive



**Central West
Region Emergency Management Committee**

23 June 2021

The Chairperson,
Mid-Western Local Emergency Management Committee
C/- Mid-Western Shire Council
PO Box 156
Mudgee NSW 2850

Via Email to ray.kearns@midwestern.nsw.gov.au

Dear Sir,

Re: Mid-Western Local Emergency Management Plan

At its meeting held on the 3 June 2021, the Central West Region Emergency Management Committee endorsed the Mid-Western Local Emergency Management Plan and additional Consequence Management Guides, as submitted.

On behalf of the Central West Region Emergency Management Committee, I would like to thank the members of the Mid-Western Local Emergency Management Committee for their efforts in the preparation of this plan. The integrated approach to emergency management planning will benefit the community and help to ensure a coordinated approach to dealing with all emergencies in the area.

Yours sincerely,

A handwritten signature in black ink that reads 'K. N. Wise'.

Kel Wise
Region Emergency Management Officer
Executive Officer
Central West Region Emergency Management Committee

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Purpose

Details arrangements for, prevention of, preparation for, response to and recovery from emergencies within the Local Government Area(s) covered by this plan.

It encompasses arrangements for:

- emergencies controlled by combat agencies;
- emergencies controlled by combat agencies and supported by the Local Emergency Operations Controller (LEOCON);
- emergency operations for which there is no combat agency; and
- circumstances where a combat agency has passed control to the LEOCON.

Objectives

The objectives of this plan are to:

- define participating organisation and Functional Area roles and responsibilities in preparation for, response to and recovery from emergencies;
- set out the control, co-ordination and liaison arrangements at the Local level;
- detail activation and alerting arrangements for involved agencies; and
- detail arrangements for the acquisition and co-ordination of resources.

Scope

The plan describes the arrangements at Local 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:

- 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 Local area or Region if they are needed.
- e) The Local Emergency Operations Controller (LEOCON) is responsible, when requested by a combat agency, to co-ordinate the provision of resources support. LEOCONs 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 Regional Emergency Operations Controller (REOCON) 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.

Test and Review Process

The Mid-Western Regional Local Emergency Management Committee (LEMC) will review this Plan every three (3) years, or following any:

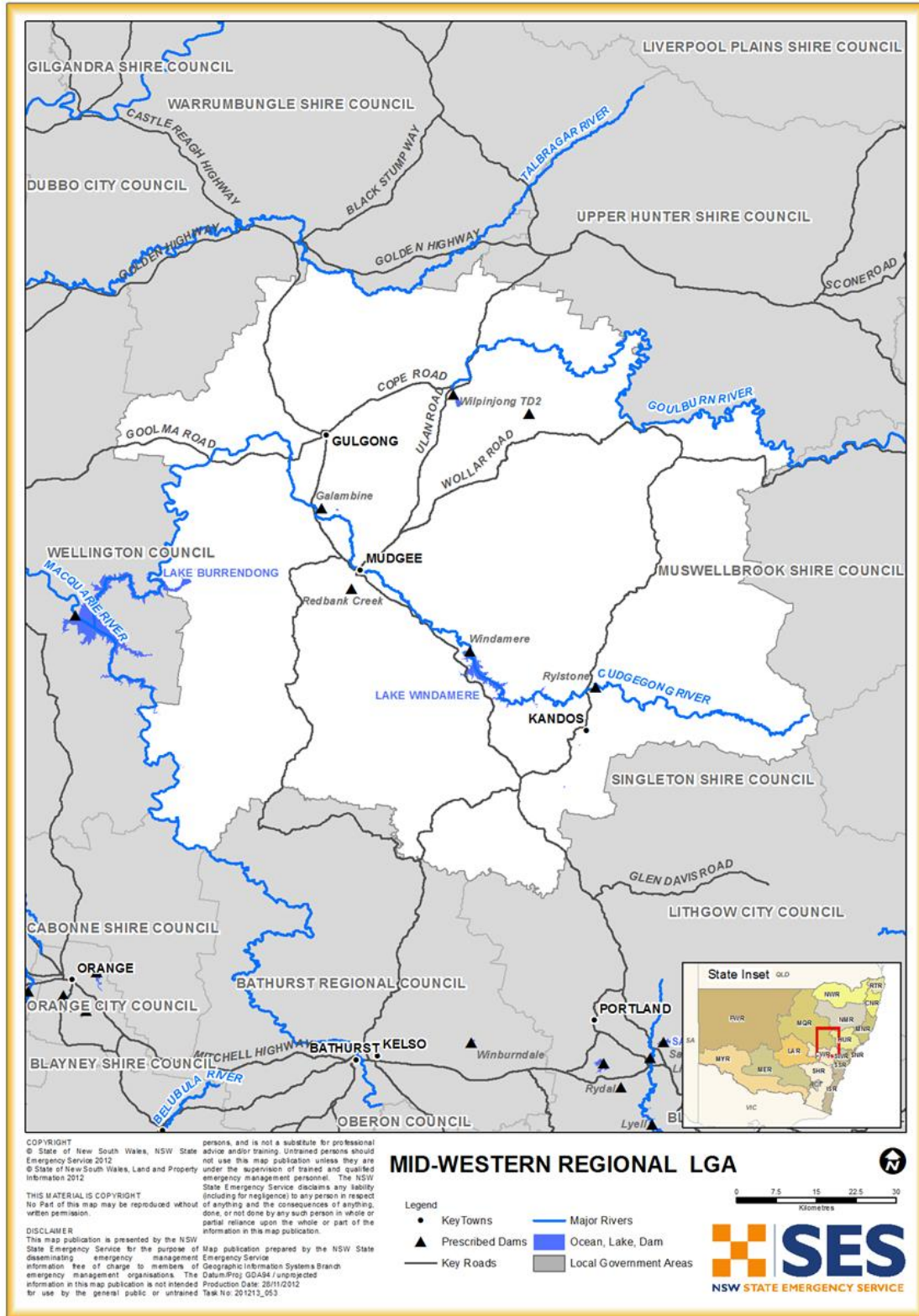
- activation of the Plan in response to an emergency;
- legislative changes affecting the Plan; and
- exercises conducted to test all or part of the Plan.

Part 2 – Community Context

Annexure A – Community Profile

General

The area of the Mid-Western Regional Council covers 875,279ha (approximately 8,737 sq. kms)



The major populated centres are:

- Mudgee
- Gulgong
- Kandos
- Rylstone
- Plus, numerous Villages and rural localities.

Village settlements located within the area:

- Birriwa
- Bylong
- Cooyal
- Clandulla
- Charbon
- Goolma
- Grattai
- Hargraves
- Ilford
- Lue
- Olinda
- Pyramul
- Running Stream
- Tambaroora
- Turill
- Ulan
- Windeyer
- Wollar

and intervening rural areas.

MUDGEE is the major centre in the local government area and Administrative centre for Mid-Western Regional Council.

Mudgee is located 261 kilometres North-West of Sydney.

The Mid-Western Regional area is located within the WEATHER FORECAST District (BOM) of: CENTRAL TABLELANDS.

The Mid-Western Regional area is located within the NSW FIRE AREA (RFS) of: CENTRAL RANGES.

The Mid-Western Regional area is bounded by the following Local Government areas;

LGA Name	EM Region	LGA Name	EM Region
Dubbo Regional	Central West	Bathurst Regional	Central West
Warrumbungle Shire	Central West	Upper Hunter Shire	Hunter
Cabonne Shire	Central West	Muswellbrook Shire	Hunter

Lithgow City	Central West	Singleton Shire	Hunter
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Landform and Topography

The area is predominantly rural with areas of heavy timber through to open grassland.

The landform ranges from 1,070 metres elevation at Baldy Peak to 350 metres at Burrendong Dam foreshore.

There are approximately 1,145.3 sq. kms of Forest and National Parks and 8,757.86 sq. kms of catchment areas.

The main catchment area in the local area is associated with the Cudgegong River system. The catchment forms on the western side of the Great Diving Range.

The Cudgegong River travels from the Catchment areas into the water storage facility of Windamere Dam. Windamere Dam and its storage area is located up-stream of Mudgee.

The Cudgegong River flows down-stream of Windamere Dam through the township of Mudgee and some 98 kilometres through the local government area to finish in Burrendong Dam.

Burrendong Dam Wall is located within the local government area of: Wellington Council.

Four (4) rivers form part of the Mid-Western Regional local government boundaries. These being: Macquarie, Crudine, Goulburn and the Talbragar Rivers.

LAND COVER:

DESCRIPTION / CLASSIFICATION	AREA (ha)
Extraction Sites	664
Inland Waterbodies	3,047
Irrigated Pasture	57
Rainfed Cropping	7,749
Rainfed Pasture	195,444
Sedges – Open	150
Tussock Grasses	43
Shrubs - Sparse	29
Trees – Closed	45,472
Trees – Open	39,1501
Trees – Scattered	7
Trees – Sparse	23,0013
Built-Up Area	1,106
<i>Source: ABS 2015 – 2008 figures</i>	

Variations in landscape, soils and climate across the area have given rise to a great diversity of flora and fauna. There is a vague north – south line of demarcation between eastern and western species of both plants and animals. This roughly follows the line of the Great Divide and forms a limit of distribution for a number of species. The wandering nature of the Great Divide and it's dissection by deep, penetrating valleys from east and west blur the line and create unique natural communities.

There is extensive coal resources underground across the area.

Mining is the major industry within the local area, with both open-cut and underground mining operations.

Climate

The varied land forms and altitudes over the LGA mean that there are many localized variations to the weather patterns. The climate can vary considerably across the area's length and breadth.

In the more extreme eastern areas temperatures can vary from as low as -12°C in winter to the high 30s and low 40s in summer.

In the higher altitude areas, snow falls can occur in winter.

Generally, the area has a climate of warm to hot summers and cool to cold winters.

The hottest months are: November to February.

The coldest months are: June and July.

At MUDGEES:

- Average HIGH Temperature: 23.0 C
- Average LOW Temperature: 8.3 C
- Rainfall is slightly summer dominant, ranging from 68mm in January to 44mm in April.
- Average Rainfall for the area is: 668.1mm (26.72 inches)
- Average Rainy Days: 142 days.

Morning winds are predominately from the south – east throughout the year.

Afternoon winds vary from the south – east during summer and autumn months to the north – west during winter and spring months.

Land Use

The advent of European settlement saw the introduction of changes in land management. As the demands of agricultural pursuits increased, clearing, particularly on the lower slopes and accessible hills and ridges, resulted in extensive areas supporting only grass communities with scattered, individual trees.

There is extensive coal mining operations within the local area, with both open-cut and underground mining operations.

History of gold mining in the southern portion of the shire centred on the villages of Windeyer and Hargraves have resulted in many abandoned underground workings.

Land Use Zone / Type / Classification	Area (ha)	% of LGA
B1 Neighbourhood Centres	0.73	0.000083
B2 Local Centres	11.37	0.001298
B3 Commercial Core	32.79	0.003744
B4 Mixed Use	17.29	0.001974
B5 Business Development	41.84	0.0047788
E1 National Parks and Nature Reserves	96069.21	10.9705
E3 Environmental Management	85160.49	9.7248
IN1 General Industrial	249.16	0.028453
IN2 Light Industrial	11.41	0.001303
IN3 Heavy Industrial	22.5	0.002569
R1 General Residential	1008.95	0.115216
R2 Low Density Residential	1065.89	0.121718
R3 Medium Density Residential	161.9	0.018788
R5 Large Lot Residential	28305.03	3.232258
RE1 Public Recreation	472.95	0.054008
RE2 Private Recreation	77.44	0.008843
RU1 Primary Production	623192.79	71.165726
RU3 Forestry	4620.77	0.527658
RU4 Primary Production Small Lots	14772.53	1.686931
RU5 Villages	914.3	0.104407
SP2 Infrastructure	19455.88	2.223174
SP3 Tourist	12.13	0.001385
Source: Mid-Western Regional Council - 2015	875704.62	

LAND TYPE	SIZE (ha)
Conservation and Natural Environments	292,457
Production from relatively Natural Environments	24,604
Production from Dryland Agriculture & Plantations	511,970
Production from Irrigated Agriculture & Plantations	7,449
Intensive Uses	30,158
Water	8,631
TOTAL	875,269
<i>Source: ABS 2015 – 2008 figures</i>	

LAND MANAGERS:

LAND MANAGER	Approximate % of Local Area
National Parks & Wildlife Service	11.5
Forestry Corporation NSW	1.9
Department of Lands (Crown Lands)	10.1
Local Government	0.1
Private	76.4
All other	2.0
<i>Source: RFS – Cudgegong BFMC Bushfire Risk Management Plan 2020</i>	

The Rural Fire Service – Bushfire Risk Management Plan reports:

- The local area has on average 217 Bushfires per year.
- One (1) Bushfire on average can be considered to be a major fire.

WATERWAYS:

The areas main waterways are:

Capertee River
 Cudgegong River
 Macquarie River
 Nile River
 Carwell Creek
 Lawson Creek
 Pipeclay Creek
 Meroo Creek
 Tongbong Creek
 Wyaldra Creek

Most of the land in the East and South of the local area is undulating or hilly in nature, creek gradients are relatively steep and flood warning times and duration of inundation are short.

In the North-West and North the terrain is flatter, floodplain areas are more extensive and warning times and duration of inundation are longer.

The Cudgegong River, an important tributary of the Macquarie River, rises east of Rylstone and Kandos in the Great Dividing Range at Mt Coricudgy (1,274 metres).

In its upper reaches the river passes through comparatively rugged country until it reaches the section downstream from the site of Windamere Dam.

The local area has a previous history of Flooding

The highest recorded flood on the Cudgegong River occurred in February 1955.

Rylstone is located in mountainous and undulating country, west of the Great Dividing Range. Its numerous creeks and streams are fast flowing and steep, and flooding occurs with little warning. Floodplain areas are narrow and of limited extent, and floods tend to be short duration and cover relatively small areas. Flooding periodically covers public reserves and playing fields located on a narrow floodplain. But houses are generally not affected. It is possible that an extreme flood event could inundate and damage a small number of houses in and near Rylstone.

Generally, in the Mudgee area, the extent of inundation in major floods is little different from that in lesser events.

Around Mudgee, extensive river flats have been developed along both the Cudgegong River and Lawson Creek upstream from their confluence with Pipeclay Creek. The valley floor then narrows as the river flows in a loop, north, west and south through undulating country en-route to Burrendong Dam, being joined by major tributaries Wyaldra and Meroo Creeks on the way. The lower portion of the Cudgegong River valley forms a sizeable arm of Lake Burrendong.

DAMS / WATER STORAGE:

There are four (4) major water stores, Windamere Dam, Dunns Swamp and Rylstone Dam which largely serves the area for flood mitigation and Burrendong Dam which lies on the areas western border and is fed by the Macquarie River.

STORAGE AREA	LOCATION	RIVER SYSTEM
Windamere Dam	15km south east of Mudgee	Cudgegong River
Dunns Swamp	30km east of Rylstone	Cudgegong River
Rylstone Dam	1km north east of Rylstone	Cudgegong River
Burrendong Dam	70km west of Mudgee	Cudgegong / Macquarie Rivers
Moolarbin Dam	50km north of Mudgee	Goulburn River
Redbank Creek Dam (no longer in use and only a façade remains)	4km south of Mudgee	Avisford Reserve Catchment

DAM OWNERS:

Dam	Owner
Windamere	NSW Water
Burrendong	NSW Water
Redbank Creek	NPWS & MID-WESTERN REGIONAL COUNCIL
Rylstone	Mid-Western Regional Council
Dunns Swamp	NPWS and Private Lease
Moolarbin	Private property

DAM PROFILES [DAMS located in Local Area]:

DAM	CONSTRUCTION TYPE / DETAILS	COMMENTS
WINDAMERE	<p>Earth & Rock Fill embankment 69 metre high. Rock Wall embankments at each end. Completed in 1984 Catchment size: 1,030 square kms Capacity: 368,000 megalitres at 552metres.</p> <p>The reservoir is ungated. Once it is filled its overflow is uncontrolled.</p>	<p>Located on Cudgegong River. Located 19km south-west of Rylstone. Located 22kms upstream of Mudgee. Constructed to supplement Burrendong Dam storage; Water supply for Mudgee; downstream irrigators.</p> <p>The Dam is very seldom filled to capacity. Regular transfers of water downstream to Burrendong occur.</p>
RYLSTONE	<p>Concrete Arch Dam with earth fill embankments at each end.</p> <p>The reservoir is ungated. Once it is filled its overflow is uncontrolled.</p> <p>The Dam is a “declared dam” under the NSW Dams Safety Act (2015) and associated Dams Safety Regulation (2019, with a Consequence Category High C.</p>	<p>Located on Cudgegong River. Located approximately 1.5 kilometres above Rylstone.</p> <p>Provides water supply to Rylstone, Kandos Charbon and Clandulla.</p> <p>Dam could fail in an extreme flood of a magnitude which would be likely to occur only very rarely. An event that would be more severe than any flood so far experienced in Rylstone’s history.</p> <p>If the Dam were to fail, a large volume of water would be released and would travel down the valley as a flood wave inundating large areas close to the river.</p>
REDBANK	<p>Concrete Arch Dam with earth fill embankments at each end. This dam has had a large section removed so that it is unable to be filled and is no longer a storage facility.</p> <p>The dam has subsequently been removed from the Dam Safety NSW list of declared dams .</p>	<p>Located approximately 2 kilometres south of Mudgee. Located in Avisford Nature Reserve on Redbank Creek.</p> <p>Originally constructed to provide water supplies to Mudgee.</p>

Population and People

The population of the local government area is 25,381 people.

[Males: 50.3%/ Females:49.7%]

Population density (Persons / square km): 2.9

[Source: ABS 2016 figures]

The population is centred in the towns (and Village / Rural Areas) of:

CENTRE / TOWN	POPULATION (Source: ABS 2015 – 2011)
MUDGEES	17644
GULGONG	3543
KANDOS	1315
RYLSTONE	920
Villages / Rural areas	654
TOTAL	24,076

The population in 2009 was 22,469 people.

The current population of 24,076 represents a 13% increase over the past 10 years.

The population increase in recent years is largely due to the expansion of existing coal mining activities and new coal mining projects. Recent government reports estimates that the population of the Mid-Western Region will increase to 26,205 people by 2031.

KEY POPULATION INFORMATION (Percent of population):

- ABORIGINAL AND /OR TORRES STRAIT ISLANDER: 5.4%.
- BORN OVERSEAS: 18.8%. (Highest percentage are from ENGLAND at 2.3%)
- LANGUAGE OTHER THAN ENGLISH spoken at home: 4.3%.
- POST SCHOOL QUALIFICATIONS: 39.3%
- UNEMPLOYMENT RATE: 3.1%
- MAIN INDUSTRY is Mining: 13.7% of working population work in this Industry.
- INTERNET ACCESS: 74.3% of occupied Private Dwellings have Internet.

[Source: Australian Bureau of Statistics – 2016 Census (except unemployment rate: Small Area Labour Markets)]

POPULATION – AGE GROUPS:

AGE GROUPS	PERCENTAGE POPULATION (%)
Age 0 - 4	7.0
5 - 9	7.0
10 – 14	6.3
15 – 19	5.5
20 – 24	4.6
25 – 29	5.3
30 - 34	5.8
35 – 39	5.5
40 - 44	5.9
45 – 49	7.1
50 – 54	7.1
55 – 59	7.0
60 – 64	6.2
65 – 69	6.4
70 - 74	5.4
75 – 79	3.6
80 – 84	2.3
85 plus	2.0
TOTAL	24,076
60.0% of population at Working Age (Age 15 - 64)	

POPULATION AGE GROUPS:

The average age for the local area is: 41.4 years. (National Average is: 37.3)

Population by Age Group	Percent of Population (%)
Age 0 to 14	20.3
Age 15 to 24	10.1
Age 25 to 34	11.1
Age 35 to 44	11.4
Age 45 to 54	14.2
Age 55 to 64	13.2
Age 65 to 74	11.8
Age 75 to 84	5.9
Age 85+	2.0
<i>Source: Australian Bureau of Statistics – 2016 Census</i>	

FAMILIES:

FAMILY TYPE	NUMBER
Couple Family without children	2,573
Couple Family with children	2,485
One parent families with non-dependent children	945
Other Family	77
TOTAL	6038
Average Family 2.9 people	

HOUSEHOLDS:

TYPE	NUMBER
LONE PERSON households	2,531
GROUP households	248
FAMILY households	5,993
TOTAL	8,772
AVERAGE HOUSEHOLD SIZE: 2.4 people	
<i>Source: Australian Bureau of Statistics – 2016 Census</i>	

HOUSING AVERAGE HOUSEHOLD MONTHLY:

Rent Payment: \$1,080

Mortgage Payment: \$1,690

REGISTERED MOTOR VEHICLES:

TYPE OF VEHICLE	%	
1 motor vehicle	31.0	2,716
2 motor vehicles	38.0	3,330
3 motor vehicles or more	21.0	1,839
None	4.9	427
<i>Source: ABS 2016 – figures</i>		

MODE OF TRAVEL TO WORK:

TYPE OF TRAVEL	PERCENTAGE (%)
Car, as driver	65.9
Worked at home	7.4
Car, as passenger	5.9
Walked only	4.4
Truck	1.6
Public transport	0.4
By car as driver or passenger	72.5
<i>Source: Australian Bureau of Statistics – 2016 Census</i>	

GOVERNMENT PENSION, ALLOWANCES PAYMENTS:

TYPE	NUMBER of RECIPIENTS
Age Pension	3,000
Family Tax Benefit	1,915
Carer Pension	314
Disability Support Pension	1,204
Newstart Allowance	652
72.7% of recipients receiving Newstart Allowance have received allowance greater than 1 year.	
Single Parent Support Allowance	420
Youth Allowance	243
DVA Service Pension / DVA Income Support Allowance	293
<i>Source: ABS 2015 – 2012 figures</i>	

Number of rateable properties in the LGA area: [figure from MID-WESTERN REGIONAL COUNCIL]

13,984

Number of residential properties in major centres: [figure from MID-WESTERN REGIONAL COUNCIL]

Mudgee: 5,318

Gulgong: 905

Kandos: 851

Rylstone: 337

Total residential properties: [figure from MID-WESTERN REGIONAL COUNCIL]

11,367

Number of Rural Properties: [figure from MID-WESTERN REGIONAL COUNCIL]

1,912 Farmland

3,956 Residential Rural

DWELLING TYPES:

TYPE		NUMBER (Dwellings)	NUMBER (Persons)
Total Private Dwellings		10,426	21,123
Total Occupied Private Dwellings		8,768	21,123
Separate House		8,005	19,872
Semi Detached, Terrace House, Town House etc TOTAL		337	548
	One storey	319	521
	Two or more storeys	17	29
Flat, Unit or Apartment TOTAL		219	339
	One or two storey	211	330
	Three storey	10	9
	Four or more storey	0	0
	Attached to a house	0	0
Other Dwelling TOTAL		78	198
	Caravan, Cabin, Houseboat	84	119
	Improvised Home, Tent, or Sleepers Out	9	29
	House or Flat Attached to A Shop or Office	27	56
	Dwelling Structure not stated	78	168
Unoccupied Private Dwellings		1660	
Source: ABS 2016			

TENURE TYPE and LANDLORD TYPE by DWELLING STRUCTURE:

TYPE		Total Occupied Private Dwellings (total)	Separate House	Semi Detached Row or Terrace House, Town House Etc (total)	Flat, Unit or Apartment (total)	Other Dwelling (total)	Dwelling structure not stated
TOTAL		8,760	8,005	336	221	120	78
Owned Outright		3,332	3157	46	59	56	25
Owned with a Mortgage		2,681	2611	24	17	17	16
Rented TOTAL		2,402	1975	242	139	32	20
	Real Estate Agent	1387	1123	163	90	9	0
	State or Territory Housing Authority	245	180	34	28	0	0
	Person not in same household	532	482	23	19	3	7
	Housing Co-operative / Community Church Group	32	16	74	10	0	0
	Other Landlord Type	108	77	7	0	3	3
	Landlord Type not stated	95	77	7	0	3	3
Other Tenure Type		58	51	3	0	6	4
Tenure Type Not stated		294	232	28	11	22	5
Source: ABS 2016							

Transport Routes and Facilities

UTILITIES:

Mudgee is fully serviced with reticulated water, sewerage, and electricity.

Village profiles:

TOWN / VILLAGE	WATER [Reticulated]	SEWERAGE	ELECTRICITY [Grid Supply]
Gulgong	YES	YES	YES
Rylstone	YES	YES	YES
Kandos	YES	YES	YES
Lue	NO	NO	YES
Hargraves	NO	NO	YES
Ulan	NO	NO	YES
Clandulla	YES	NO	YES
Charbon	YES	NO	YES
Goolma	NO	NO	YES
Ilford	NO	NO	YES
Wollar	NO	NO	YES

RAIL:

Western to Northern Rail link, travels Muswellbrook via Ulan through Gulgong to Dubbo transporting freight. This line is part of the national rail system.

This line services:

- Coal trains from Ulan Mines transporting coal to Newcastle.
- Super Freighter Trains that operate from Brisbane / Queensland and Newcastle on route to South Australia and Western Australia.

A rail line travels from Lithgow to Kandos / Rylstone to service coal mines in the south-east area of the local government area.

ROAD NETWORK:

The main transport route through the area is the Castlereagh Highway (leads to Sydney), whilst the Golden Highway (leads to Newcastle) transverses the area in the far north – east section.

The Castlereagh Highway (TR55) traverses the area in a south-east to north direction and passes through Mudgee, Gulgong, Ilford and Birriwa. The road carries extensive traffic including heavy commercial transport and a high volume of tourist traffic year round.

The Ulan Road (MR214) travels from Mudgee to join with the Golden Highway between Dunedoo and Denman. This road is used extensively by freight and passenger vehicles that service the Ulan Mines and logistic systems based on Newcastle. This includes Hazardous Materials, Inflammable fuels and hazardous materials.

Bathurst to Ilford Road (MR 54), Bylong Valley Way (MR 215 & 208), Lue Road (Rural Road – Rylstone to Mudgee), Gulgong to Goolma (Wellington Road MR 233) and Gulgong to Ulan Road (Cope Road MR 598) also carry extensive traffic movements.

The major road network comprises both Main Roads and State Roads:

Road / Highway Name	Transport Route
Gollan Road (MR7512) Golden Highway (State Road 84)	Goolma to Dubbo
Cope Road (MR 598)	Gulgong to Ulan
Wellington Road (MR 233)	Gulgong to Goolma
Castlereagh Highway (State Road 86 -TR55) / Golden Highway (State Road 84)	Gulgong to Dunedoo
Sofala Road. (MR 54)	Ilford to Sofala
Castlereagh Highway (State Road 86 -TR55)	Mudgee to Lithgow
Castlereagh Highway (State Road 86 -TR55)	Mudgee to Dunedoo
Castlereagh Highway (State Road 86 -TR55) MR 233 and MR 565	Mudgee to Wellington
Castlereagh Highway (State Road 86 -TR55)	Mudgee to Rylstone
MR 214, Golden Highway (State Road 84)	Mudgee to Cassilis
Wollar Road (MR 208)	Mudgee to Wollar
Hill End Road (MR 216)	Mudgee to Hill End
Bylong Valley Way (MR 215)	Rylstone to Ilford
Glen Davis Road, Glen Alice Road	Rylstone to Capertee
Bylong Valley Way (MR 215)	Rylstone to Bylong

AIR:

Mudgee has a secured airport which is used extensively for commercial and general aviation operations.

An aero club, helicopters and charter flights operators are located on and utilise the Mudgee airport. Mudgee Airport has navigational aids located on ground which is used for both military and commercial flight paths.

Major Domestic and International air routes traverse the area.

Mudgee is serviced by a daily commercial passenger aircraft operated by Fly Pelican. This operation operates six days per week to Sydney and return utilising a J32 Jetstream 19 passenger turbo prop aircraft service with two crew members.

The Defence Force regularly use the Mudgee Airport for Exercises and Training purposes. Main aircraft are: Herculeses, Falcon 7X and KingAir

Private aviation companies regularly use the Mudgee Airport for and regularly training activities, especially landing “touch and go’s”.

Largest aircraft would be: King Air and Citation Jet

Largest size aircraft that use the airport on a regular basis are:

Falcon 2000, Challenger (24,000kg), occasionally SAAB 340 Aircraft and Falcon 7X

Rural Fire Service contracted fire-fighting aircraft are regularly pre-positioned at Mudgee Airport on stand-by for quick deployment operational duty, or when operational for water supply re-filling

or fuel re-filling during the designated Bushfire Season. It is used by the Rural Fire Service as a base during the time of a bushfire event and training purposes.

Ambulance NSW, Royal Flying Doctors and Toll Rescue Helicopters utilise the airport on a regular basis for emergency patient transfers.

Mudgee Airport.

Number of aircraft movements each year: between 4000 and 4500. The main sealed runway is 1,739m in length and has a Code C3 rating, the grass runway strip is 1,075m in length and has a Code 2C rating.

Quantity of aviation fuel stored on the airport environment:

- Jet A1 – 20,000 litres
- Avgas – 20,000 litres

Rylstone has a grass airstrip that is used by private light aircraft operators, and is not operated by MID-WESTERN REGIONAL COUNCIL.

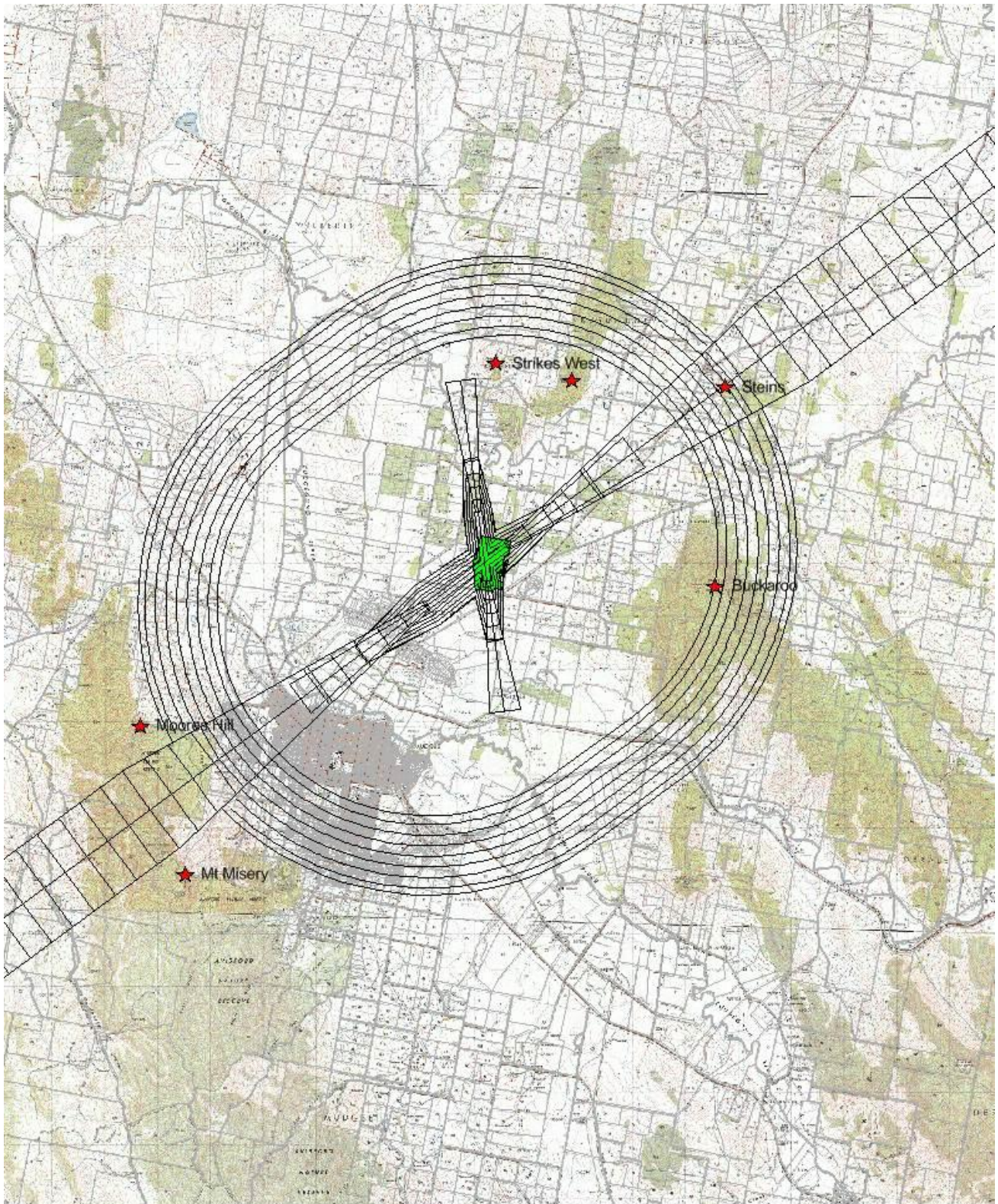
A landing strip and associated Gliding Club, located approximately 12kms north of Gulgong caters for local, national and international Gliding operations and competitions.

There are numerous private air strips throughout the area.

There is extensive use of Ultra-Light and Recreational Aircraft (single and twin person aircraft) within the local area.

Location of Mudgee Airport Beacon Lighting

There are six beacon lights, two flashing and two steady red located at the following points;



Economy and Industry

EMPLOYMENT BY INDUSTRY: [Source: ABS 2016]

Six (6) biggest employment Industries by percentage of population are:

- Mining: 15.1%
- Retail: 10.4%
- Health Care & Social Assistance 9.8%
- Agriculture; Forestry & Fisheries:8.8%
- Construction: 8%
- Accommodation and Food Services: 7.8%

AVERAGE WAGE: \$48,953 pa [Source: ABS 2015]

AVERAGE VALUE OF PRIVATE SECTOR HOUSES being constructed: \$339,700.
[Source: ABS 2015]

LABOUR FORCE: [Source: Small Area Labour Markets 2020]

Employed: 12,837

Unemployed: 439

Unemployment rate: 3.4%

NUMBER OF REGISTERED BUSINESSES: 2,599

Number of Businesses that employ 1-19 employees: 945

Number of Businesses that employ 20 or greater employees: 49

Number of Businesses that are non-employing: 1,600

[Source: ABS 2019]

EMPLOYMENT CLASSIFICATIONS: (Employed persons)

CLASSIFICATION	PERCENTAGE (%)
Managers	13.5
Professionals	13.5
Technicians and Trade Workers	17.7
Community & Service Personal	9.5
Clerical & Administration	10.4
Sales	8.8
Machinery Operators & Drivers	14.7
Labourers	11.6
Other not described	0.3
TOTAL Employed	10,095
<i>Source: Australian Bureau of Statistics – 2016 figures</i>	

NUMBER OF BUSINESSES BY INDUSTRY:

INDUSTRY	NUMBER
Accommodation and Food Services	123
Administrative & Support Services	61
Agriculture, Forestry and Fishing	905
Arts & Recreation Services	20
Construction	338
Education & Training	19
Electricity, Gas, Water & Waste Services	9
Financial & Insurance Services	77
Health Care & Social Assistance	63
Information Media & Telecommunications	6
Manufacturing	95
Mining	29
Not Classified	45
Other Services	104
Professional Scientific & Technical Services	126
Public Administration & Safety	9
Rental, Hiring & Real Estate Services	148
Retail Trade	175
Transport, Postal and Warehousing	113
Wholesale Trade	54
TOTAL:	2,519
<i>Source: ABS 2015 – 2012 figures</i>	

EMPLOYED BY INDUSTRY:

INDUSTRY	Percentage of Population (%)
Agriculture, Forestry and Fishing	9.5
Mining	13.8
Manufacturing	6.0
Electricity, Gas, Water & Waste Services	1.2
Construction	7.8
Wholesale Trade	2.5
Retail Trade	11.3
Accommodation and Food Services	8.2
Transport, Postal and Warehousing	3.3
Information Media & Telecommunications	0.8
Financial & Insurance Services	1.2
Rental, Hiring & Real Estate Services	1.3
Professional Scientific & Technical Services	3.5
Administrative & Support Services	2.2
Public Administration & Safety	4.2
Education & Training	7.3
Health Care & Social Assistance	9.2
Arts & Recreation Services	0.7
Other Services	3.9
TOTAL EMPLOYED	9363
<i>Source: ABS 2015 – 2011 figures</i>	

MINING:

The main employing industry is MINING. This industry employs 18.1 % of the working population.

- Production and transport of export coal from the Ulan area, approximately 45km north of Mudgee town (Ulan, Wilpinjong & Moolarben Coal Mines).
- Ulan Mining Operations consist of Ulan West, Ulan No. 3 and Ulan Surface Operations.
- Moolarben Open Cut, Coal Handling Plant and Underground Mine commencing 2016.
- Wilpinjong Coal Mine is located approximately 64 km north east of Mudgee Town.
- Coal is also mined at Charbon Colliery (Due to cease operations September 2015), south of Kandos.
- Ulan, Moolarben and Wilpinjong Coal Mines all have expansion plans either underway or in the planning stages which will significantly increase the production of coal in the Region.
- There are coal mining projects identified for the Region in the future.
- Clay mining at various locations in the southern area.
- Magnetite mining, north of Gulgong to service Ulan Coal.
- Dolomite lime is mined at Buckaroo, North of Mudgee.
- History of gold mining in the southern portion of the area centred on the villages of Windeyer and Hargraves resulting in many abandoned underground workings.
- History of gold mining and abandoned under-ground workings surround Gulgong.

RURAL INDUSTRY:

Agriculture has long played a major role in the district's economy.

Production includes beef, prime lambs, meat goats, wool, goat fibres, alpacas, cereal production, pasture hay, lucerne, and honey. Horticulture plays an important role with fruit production; viticulture and olives recently becoming major contributors, as do their associated industries of wine and oil produce.

The area contains an extensive number of hobby farming on 25 acre rural subdivisions.

There is a large number of absentee landowners associated with these small hobby farm and 25 acre rural properties.

Many rural residential estates are HIGH risk to BUSHFIRE due to large numbers of small blocks in areas of dense vegetation, with limited access.

TOURISM:

Tourism is now an established industry. There are 655,000 visitors to the Mid-Western Region LGA per annum. Tourism produces an annual economic output of \$157.6million (3.3% of the regions output)

Tourism is based on the encompassing rural, urban and natural landscapes; wine industry and boutique cottage and accommodation sectors.

There are regularly large events, sporting, cultural and exhibitions that are held in the region that can attract significant numbers of visitors that can impact on local resources.

Major Events in Mid-Western Regional area:

Refer to the following Mid-Western Regional Council webpage

<http://www.midwestern.nsw.gov.au/community--recreation/Events/>

.....LEMC determined Risks - 2020:

Source of Risk	Risk Level	COMBAT AGENCY (Key Support Agency)
BUSHFIRE (Grass / Bushfire impinging on residential areas and / or environment)	Extreme	NSW Rural Fire Service
MINES EMERGENCY	Extreme	LEOCON (Mines Safety – Trade & Investment)
PANDEMIC (Human / Animal)	Extreme	Department of Health
FLOOD – Flash (Mudgee / Rylstone / Kandos)	High	NSW SES
STORM	High	NSW SES
HAZMAT (Rail)	High	Fire and Rescue NSW
AGRICULTURAL DISEASE – Animal (Exotic Stock/Animal Disease)	High	DPI (Local Land Services)
AGRICULTURAL DISEASE – Plant (Grapes)	High	DPI (Local Land Services)
UTILITIES FAILURE – Electricity (Sub Stations / Transmission Lines)	High	LEOCON (Essential Energy / Endeavour Energy)
TRANSPORT EMERGENCY – AIR (Regular Passenger Aircraft)	High	LEOCON NSW Police Force
HAZMAT (Major Storage facilities; Orica Explosives Plant; Robert Oatley Winery)	High	Fire and Rescue NSW
HAZMAT (Road transport routes)	High	Fire and Rescue NSW
EXPLOSION	High	Fire and Rescue NSW
UTILITIES FAILURE - Telecommunication	High	LEOCON
UTILITIES FAILURE - Water	High	LEOCON (MID- WESTERN REGIONAL COUNCIL)
TRANSPORT EMERGENCY – ROAD (Passenger & School Coach / Bus)	High	LEOCON
TRANSPORT EMERGENCY – ROAD (Animals)	High	NSW Police Force
FIRE - COMMERCIAL or INDUSTRIAL (Warehouses; Industrial; Orica Explosives Plant, Gas Storage / Shopping Centres; Aged Care, Hospitals)	High	Fire and Rescue NSW
DAM FAILURE (Windamere & Rylstone Dams)	High	NSW SES (Water NSW / MRWC)
EXPLOSION (Mines Complex)	High	LEOCON/ Fire and Rescue NSW/ NSW Rural Fire Service
FLOOD (Major to Max Probable)	Medium	NSW SES
BUILDING COLLAPSE	Medium	Fire and Rescue NSW

LANDSLIDE (Charbon area)	Medium	LEOCON
UTILITIES FAILURE - Sewage	Medium	LEOCON (MID-WESTERN REGIONAL COUNCIL)
EARTHQUAKE	Low	LEOCON
TRANSPORT EMERGENCY – RAIL (Coal Train)	Low	LEOCON / NSW POLICE FORCE JHR / ARTC
FIRE RESIDENTIAL TRANSPORT EMERGENCY – RAIL (Coal Train)	Low	Fire and Rescue NSW NSW Rural Fire Service LEOCON / NSW POLICE FORCE JHR / ARTC
FIRE RESIDENTIAL	Low	Fire and Rescue NSW NSW Rural Fire Service

Annexure B – Hazards and Risks Summary

A Local Emergency Risk Management (ERM) Study has been undertaken by the Mid-Western Regional Local 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 as having the potential to create an emergency. The Name Emergency Risk Management Study should be referenced to identify the complete list of consequences and risk descriptions.

Hazard	Risk Description	Likelihood Rating	Consequence Rating	Risk Priority	Combat / Responsible Agency
Agricultural Disease (Animal)	An agriculture incident that results, or has potential to result, in the spread of a communicable disease or infestation.	Possible	Moderate	High	Department of Primary Industries (DPI) (DPI)
Agricultural Disease (Plant)	An horticulture incident that results, or has potential to result, in the spread of a communicable disease or infestation.	Possible	Moderate	High	Department of Primary Industries (DPI)
Building Collapse	Collapse of building owing to structural failure or impact from external/internal event of other hazards /incidents.	Unlikely	Moderate	Medium	FIRE AND RESCUE NSW
Communicable Disease (Human)	Pandemic illness that affects, or has potential to affect, large portions of the human or animal population	Possible	Major	Extreme	Department of Health

Hazard	Risk Description	Likelihood Rating	Consequence Rating	Risk Priority	Combat / Responsible Agency
Dam Failure	A dam is compromised that results in localised or widespread flooding.	Rare	Catastrophic	High	NSW SES Water NSW MID-WESTERN REGIONAL COUNCIL
Earthquake	Earthquake of significant strength that results in localised or widespread damage.	Rare	Minor	Low	LEOCON
Fire (Bush or Grass)	Major fires in areas of bush or grasslands impacting on residential properties or environment.	Likely	Major	Extreme	NSW RFS
Fire (Industrial or commercial)	Serious industrial or commercial fire in office complexes, shopping centres, aged persons units, nursing homes, hospitals, warehouses and the Orica explosives facility.	Likely	Moderate	High	FIRE AND RESCUE NSW NSW RFS
Fire (Residential)	Serious residential fire in medium/high rise apartments.	Likely	Minor	Low	FIRE AND RESCUE NSW NSW RFS

Hazard	Risk Description	Likelihood Rating	Consequence Rating	Risk Priority	Combat / Responsible Agency
Flood (Flash)	Heavy rainfall causes excessive localised flooding with minimal warning time	Likely	Minor	High	NSW SES
Flood (Riverine)	River flows exceed the capacity of normal river systems resulting in flood waters escaping and inundating river plains	Possible	Minor	Medium	NSW SES
Hazardous Materials Release (ROAD)	Hazardous material released as a result of an incident or accident results in environmental damage and major recovery operation.	Likely	Moderate	High	FIRE AND RESCUE NSW
Hazardous Materials Release (RAIL)	Hazardous material released as a result of an incident or accident results in environmental damage and major recovery operation.	Likely	Moderate	High	FIRE AND RESCUE NSW
Hazardous Materials Release (Commercial Storage Facilities)	Hazardous material released as a result of an incident or accident results in environmental damage and major recovery operation.	Likely	Moderate	High	FIRE AND RESCUE NSW
Landslip	Landslip/landslide resulting in localised or widespread damage.	Unlikely	Moderate	Medium	LEOCON

Hazard	Risk Description	Likelihood Rating	Consequence Rating	Risk Priority	Combat / Responsible Agency
Storm	Severe storm with accompanying lightning, hail, wind, and/or rain that causes severe damage and/or localised flooding.(includes tornado)	Likely	Moderate	High	NSW SES
Transport Emergency (AIR)	Aircraft crashes in LGA resulting in large number of fatalities, injuries and/or damage to property.	Unlikely	Major	High	LEOCON
Transport Emergency (ROAD) Human	A major accident in LGA resulting in large number of fatalities, injuries and/or damage to property.	Unlikely	Major	High	LEOCON (TfNSW / MID-WESTERN REGIONAL COUNCIL)
Transport Emergency (ROAD) Animals	A major accident in LGA resulting in large number of fatalities, injuries and/or damage to property.	Unlikely	Major	High	LEOCON / LLS
Transport Emergency (RAIL)	A major accident in LGA resulting in damage to property and environment. [Coal Trains]	Unlikely	Minor	Low	LEOCON John Holland Rail ARTC

Hazard	Risk Description	Likelihood Rating	Consequence Rating	Risk Priority	Combat / Responsible Agency
Utilities Failure (Electricity)	Major failure of essential utility for unreasonable periods of time as a result of a natural or man-made occurrence.	Possible	Moderate	High	LEOCON Endeavour Energy Essential Energy
Utilities Failure (Water)	Major failure of essential utility for unreasonable periods of time as a result of a natural or man-made occurrence.	Likely	Moderate	High	LEOCON MID-WESTERN REGIONAL COUNCIL
Utilities Failure (Sewerage)	Major failure of essential utility for unreasonable periods of time as a result of a natural or man-made occurrence.	Unlikely	Moderate	Medium	LEOCON MID-WESTERN REGIONAL COUNCIL
Utilities Failure (Telecommunications)	Major failure of essential utility for unreasonable periods of time as a result of a natural or man-made occurrence.	Possible	Moderate	High	LEOCON

Hazard	Risk Description	Likelihood Rating	Consequence Rating	Risk Priority	Combat / Responsible Agency
Mines Emergency	Major incident at a mine (open cut or underground) that results in serious injury or death, entrapment requiring rescue coordination, environmental, transportation or structural impacts that either affect mining operations or the community.	Possible	Major	Extreme	LEOCON Mines Safety – Trade & Investment
Explosion (Mines Complex)	Major incident at a mine (open cut or underground) that results in serious injury or death, entrapment requiring rescue coordination, environmental, transportation or structural impacts that either affect mining operations or the community.	Unlikely	Major	High	LEOCON FIRE AND RESCUE NSW RFS Mines Safety – Trade & Investment

Annexure C – Local Sub Plans, Supporting Plans and Policies

Responsibility for the preparation and maintenance of appropriate sub and supporting plans rest with the relevant Combat Agency Controller or the relevant Functional Area Coordinator.

The sub/supporting plans are developed in consultation with the Mid-Western Regional LEMC and the community.

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

These plans are retained by the LEMO on behalf of the LEMC.

Plan/Policy	Purpose	Combat / Responsible Agency
NSW RFS CUDGEGONG DISTRICT OPERATIONS PLAN	Bushfire operations	NSW Rural Fire Service
NSW SES LOCAL FLOOD PLAN MID-WESTERN REGIONAL	Flood operations	NSW State Emergency Service
MID-WESTERN REGIONAL COUNCIL AIRPORT EMERGENCY PLAN	Airport operations	MID-WESTERN REGIONAL COUNCIL

Part 3 – Restricted

Operational Information

(not for Public information)

RESTRICTED OPERATIONAL INFORMATION