



**Snowy Monaro
Local Emergency
Management Plan
May 2023**

Part 1 – Administration

Authority

The Snowy Monaro Local Emergency Management Plan (EMPLAN) has been prepared by the Snowy Monaro Local Emergency Management Committee in compliance with the *State Emergency & Rescue Management Act 1989*.

APPROVED

.....

Chair

Snowy Monaro Local Emergency Management Committee

Dated:

ENDORSED

.....

Chair

South East Regional Emergency Management Committee

Dated:

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Purpose

Details arrangements for, prevention of, preparation for, response to and recovery from emergencies within the Snowy Monaro Regional Council Area

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
- 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, recover from emergencies, and 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. EOCs 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 Snowy Monaro 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;
- exercises conducted to test all or part of the Plan.
- in the event that deficiencies are identified; and
- as roles and responsibilities change.

Part 2 – Community Context

Annexure A – Community Profile

General

This Plan covers the area of the Snowy Monaro Regional Council and is bounded by Bega Valley Shire Council, Queanbeyan-Palerang Regional Council, and Snowy Valleys Council, the ACT, and the Victorian borders. The Amalgamated area covers approximately 15162 square KMs

The townships and villages are Cooma, Bombala, Berridale, Jindabyne, Bredbo, Cathcart, Delegate, Bibbenluke, Michelago, Nimmitabel, Numeralla, East Jindabyne, Dalgety, Adaminaby, Kalkite, Old Adaminaby and Anglers Reach.

The mountain villages of Thredbo, Perisher Valley, Smiggin Holes, Guthega and Charlotte's Pass are located within the Snowy Monaro Regional Council area, but administered by the National Parks and Wildlife Service within Kosciuszko National Park. The Snowy Monaro Regional Council's western boundary follows the Great Divide through the Kosciuszko National Park, including through Mt. Kosciuszko.

The main industries of the region are Primary Production, Forestry, Tourism and Hospitality and Hydro Electricity Generation. The area encompasses the bulk of Snowy Hydro Limited, which generates hydro-electric power to the NSW and Victorian power grids.

Geographic Context

There are a number of matters of particular concern to the region that arise because of its location. These provide a context for many of the issues identified in this Plan, and affect the strategies able to be developed. They include:

- Four distinct seasons featuring very cold winters. This particularly affects older members of the community and has implications for building standards, regulations and costs.
- An extremely large visitor and seasonal worker population during the winter months, plus increasing visitor populations in other seasons. These populations affect the provision of physical infrastructure, services, and facilities – both by Council and by other service providers – as well as social wellbeing in the region.
- Kosciuszko National Park, its urbanised ski resort centres, and growing permanent population within the boundaries of the Council area. While the park brings a large amount of business to the region, the resort villages also compete directly with retail and accommodation centres outside the park, and provide no rates income to the Council. The extent of the economic and social impact of development inside the National Park is the subject of some debate. Proposed increases in bed numbers and expansion to scope of activities undertaken in the park are intensifying this debate.
- The corporatisation of the Snowy Mountains Hydro-Electric Authority, now Snowy Hydro, and its position as the key landholder in the Shire and The Snowy 2.0 expansion projects.

- The travel distance for services and products manufactured or produced elsewhere translates into higher prices for many goods and services, and impacts on the cost of living.

Landform and Topography

The area consists of treeless plains, undulating mountainous terrain with heavily forested areas. Many areas are inaccessible by vehicles or only accessible via fire trails. Large areas of grassland plains extend throughout the area. The Kybeyan and Gourcock Ranges (Great Dividing Range network) form the eastern border of the area. Other major mountain spurs include the Monaro Range (south), Tinderry Mountains (north) and Bobeyan Divide, Yaouk Bill Range and Clear Range (north-northwest)

Climate

The area is climatically diverse and is predominantly cool temperate, with higher elevation areas having greater daily extremes (colder winters and hotter summers). The area historically experiences variations in precipitation with higher rainfall predominantly occurring during spring and winter. Some parts, particularly mountainous areas and higher elevations, are subject to snowfalls during winter.

Climate Change

Expected Climate Change Impacts within the area propose that:

- Temperatures may rise 2-3°C in autumn, winter and spring and 1.5-2°C in summer.
- Rainfall likely to decrease in autumn and winter by 20-50% and increase in summer by 20-50%. Spring rainfalls may decline 5-20%.
- Reduction in snow cover due to higher temperatures.
- Hydrological droughts likely to be more severe.
- Flooding behaviour likely to change. Increases in rainfall intensities, particularly in short duration storms, are likely to cause additional flooding from local streams. Floodwaters are likely to rise more rapidly, potentially increasing the danger of these floods to the community.
- Fire regimes are likely to change.
- Increased occurrence and intensity of storm activity.

TABLE 1 – Average Rainfall and Temperatures (1991-2020) Source: Bureau of Statistics & BOM

Community Name	Mean Rainfall (mm)				Mean Max. Temperature (°)			
	Summer	Autumn	Winter	Spring	Summer	Autumn	Winter	Spring
Bombala	57.5	42.4	46.7	55.1	26.8	19.4	12.0	19.7
Bredbo	61.0	29.4	28.1	39.4	28.0	19.6	11.5	19.8
Cathcart	57.5	42.4	46.7	55.1	26.8	19.4	12.0	19.7
Cooma	61.0	29.4	28.1	39.4	28.0	19.6	11.5	19.8
Delegate	69.3	71.8	77.39	72.6	No Data Available			
Michelago	54.1	34.4	38.2	53.9	29.8	21.0	12.4	21.1
Nimmitabel	58.0	36.9	38.8	51.9	No Data Available			
Numeralla	61.0	29.4	28.1	39.4	28.0	19.6	11.5	19.8

Land Use

Suburbs of the Snowy Monaro Regional Council Area

TABLE 2 – Suburbs within Snowy Monaro Regional Council and their former LGA

Former LGA	Suburb name	Formerly Shared With LGA	Area Ha in LGA
Column1	Column2	Column3	Column4
BEGA VALLEY	NUNGATTA	BOMBALA	20090.3
BEGA VALLEY	WADBILLIGA	COOMA-MONARO	21426.3
BEGA VALLEY	GREENLANDS	COOMA-MONARO	1935
BEGA VALLEY	CATHCART	BOMBALA	8717.2
BEGA VALLEY	STEEPLE FLAT	COOMA-MONARO	3121.2
BOMBALA	BYADBO WILDERNESS		60598.6
BOMBALA	CAMBALONG		5635.5
BOMBALA	CORROWONG		36263.3
BOMBALA	CRAIGIE		9801.2
BOMBALA	DELEGATE		27324.4
BOMBALA	TOMBONG		13063.3
BOMBALA	ROSEMEATH		4114.5
BOMBALA	PALARANG		9251.2
BOMBALA	MILA		19293.7
BOMBALA	BOMBALA		11981.4
BOMBALA	LORDS HILL		8913.1
BOMBALA	BUKALONG		7221
BOMBALA	BONDI FOREST		16346.5
BOMBALA	QUIDONG		10472.9
BOMBALA	MERRIANGAAH		7066
BOMBALA	ROCKTON		8288.6
BOMBALA	PADDYS FLAT		16783.5
BOMBALA	JINCUMBILLY		4449.1
BOMBALA	BOCO		8802
BOMBALA	MOUNT COOPER		7168.8
BOMBALA	HOLTS FLAT		3476.5
BOMBALA	BIBBENLUKE		5378.2
BOMBALA	CREEWAH		3536.5
BOMBALA	ANDO		11212.7
BOMBALA	COOLUMBOOKA		8402.3
BOMBALA	BUNGARBY		31350
BOMBALA	GUNNINGRAH		9014.7
BOMBALA	NUNGATTA	BEGA VALLEY	6145.2
BOMBALA	CATHCART	BEGA VALLEY	10097.9
BOMBALA	GLEN ALLEN	COOMA-MONARO	13196.3
COOMA-MONARO	TANTANGARA		14076
COOMA-MONARO	GLEN FERGUS		5939.1
COOMA-MONARO	NUMERALLA		17460.4

COOMA-MONARO	ROCK FLAT		21299.6
COOMA-MONARO	MAFFRA		7639.9
COOMA-MONARO	DANGELONG		7486.6
COOMA-MONARO	CARLAMINDA		7923.1
COOMA-MONARO	DAIRYMANS PLAINS		3487.5
COOMA-MONARO	WINIFRED		4495.1
COOMA-MONARO	NIMMITABEL		13991.4
COOMA-MONARO	BREDBO		24606.1
COOMA-MONARO	ROSE VALLEY		7244.6
COOMA-MONARO	CHAKOLA		12186.6
COOMA-MONARO	SPRINGFIELD		19900.6
COOMA-MONARO	BUNYAN		7228.3
COOMA-MONARO	MIDDLE FLAT		3887.4
COOMA-MONARO	POLO FLAT		282.9
COOMA-MONARO	TUROSS		10720
COOMA-MONARO	KYBEYAN		30330.1
COOMA-MONARO	BILLILINGRA		6480.8
COOMA-MONARO	SHANNONS FLAT		20959.7
COOMA-MONARO	JERANGLE		35962.2
COOMA-MONARO	CLEAR RANGE		4742.7
COOMA-MONARO	PEAK VIEW		26071.7
COOMA-MONARO	BUMBALONG		5022.9
COOMA-MONARO	COLINTON		8687.9
COOMA-MONARO	MICHELAGO		23551.4
COOMA-MONARO	COUNTEGANY		16932.8
COOMA-MONARO	BINJURA		2363.5
COOMA-MONARO	MURRUMBUCCA		15017.6
COOMA-MONARO	BOLARO		12800
COOMA-MONARO	THE ANGLE		2254
COOMA-MONARO	JINGERA		10409.4
COOMA-MONARO	ANEMBO		17177.5
COOMA-MONARO	BADJA		13063.6
COOMA-MONARO	LONG PLAIN	TUMUT	6403.4
COOMA-MONARO	WADBILLIGA	BEGA VALLEY	4819.1
COOMA-MONARO	GREENLANDS	BEGA VALLEY	4202.6
COOMA-MONARO	COOMA	SNOWY RIVER	4872.1
COOMA-MONARO	TINDERRY	PALERANG	20981.6
COOMA-MONARO	WILLIAMSDALE	PALERANG	2519.4
COOMA-MONARO	STEEPLE FLAT	BEGA VALLEY	8269.4
COOMA-MONARO	BURRA	PALERANG	2488.4
COOMA-MONARO	GLEN ALLEN	BOMBALA	1695.9
COOMA-MONARO	YAOUK	SNOWY RIVER	20071.6
PALERANG	TINDERRY	COOMA-MONARO	6303.2
PALERANG	WILLIAMSDALE	COOMA-MONARO	2728.1

PALERANG	BURRA	COOMA-MONARO	7406.2
SNOWY RIVER	EUCUMBENE		475.3
SNOWY RIVER	INGEBIRAH		25609.1
SNOWY RIVER	SNOWY PLAIN		10385.3
SNOWY RIVER	PROVIDENCE PORTAL		1155.5
SNOWY RIVER	KALKITE		2538.7
SNOWY RIVER	NIMMO		3721.4
SNOWY RIVER	ROCKY PLAIN		13381.6
SNOWY RIVER	GROSSES PLAIN		4463.9
SNOWY RIVER	CRACKENBACK		8462.4
SNOWY RIVER	KOSCIUSZKO NATIONAL PARK		195721.2
SNOWY RIVER	JINDABYNE		11215.2
SNOWY RIVER	MOONBAH		15556.6
SNOWY RIVER	MYALLA		8015.5
SNOWY RIVER	MIDDLINGBANK		7165.2
SNOWY RIVER	PAUPONG		15403.8
SNOWY RIVER	BOBUNDARA		12601.4
SNOWY RIVER	PINE VALLEY		298.7
SNOWY RIVER	NUMBLA VALE		12111.8
SNOWY RIVER	COOLRINGDON		10832.1
SNOWY RIVER	HILL TOP		3966
SNOWY RIVER	BELOKA		6752.1
SNOWY RIVER	COOTRALANTRA		16206.4
SNOWY RIVER	DALGETY		21146.9
SNOWY RIVER	BERRIDALE		23346.9
SNOWY RIVER	ARABLE		11942.3
SNOWY RIVER	THE BROTHERS		11962.3
SNOWY RIVER	ANGLERS REACH		1744.5
SNOWY RIVER	OLD ADAMINABY		2508.9
SNOWY RIVER	BRAEMAR BAY		6693.4
SNOWY RIVER	ADAMINABY		35969.7
SNOWY RIVER	BUCKENDERRA		8423.3
SNOWY RIVER	DRY PLAIN		11884
SNOWY RIVER	FRYING PAN		6480.5
SNOWY RIVER	RHINE FALLS		4365
SNOWY RIVER	WAMBROOK		8193.5
SNOWY RIVER	IRONMUNGY		7267.4
SNOWY RIVER	JIMENBUEN		33777.8
SNOWY RIVER	EAST JINDABYNE		4922
SNOWY RIVER	AVONSIDE		5742.4
SNOWY RIVER	COOMA	COOMA-MONARO	4910.3
SNOWY RIVER	YAOUK	COOMA-MONARO	5940
TUMUT	LONG PLAIN	COOMA-MONARO	5061.8

TABLE 3 – Land Use Zones

Land Use Zone / Type / Classification	Area	% of LGA
Former COOMA MONARO SHIRE Council Area		
Zone	Area sq. km	Percentage of former Cooma LGA
RU1 Primary Production	3899.14705	75.26%
E1 National Parks and Nature Reserves	903.36454	17.44%
E3 Environmental Management	129.8627	2.51%
RU3 Forestry	104.20079	2.01%
R5 Large Lot Residential	88.49914	1.71%
E4 Environmental Living	20.93776	0.40%
SP2 Infrastructure	14.57257	0.28%
R2 Low Density Residential	6.3962	0.12%
E2 Environmental Conservation	3.62919	0.07%
RE1 Public Recreation	3.70964	0.07%
RU5 Village	3.27321	0.06%
IN1 General Industrial	1.48814	0.03%
B3 Commercial Core	0.26342	0.01%
B4 Mixed Use	0.40561	0.01%
R1 General Residential	0.67953	0.01%
RE2 Private Recreation	0.50635	0.01%
B1 Neighbourhood Centre	0.00214	0.00%
B2 Local Centre	0.03341	0.00%
B5 Business Development	0.09501	0.00%
Former BOMBALA Council Area		
Zone	Area sq. km	Percentage of former Bombala LGA
RU1 Primary Production	3355	84%
E1 Nat Parks	315	8%
RU3 Forestry	275	7%
IN1 IN2 Industrial		<1%
B2 R1 RU5 residential		<1%
R5 Large lot residential		< 1%
Former SNOWY RIVER SHIRE Council Area		
Zone	Area sq. km	Percentage of former Snowy LGA
RU1 Primary Production	323661.3225	52.63%
E1 National Parks and Nature Reserves	223701.8442	36.38%
R5 Large Lot Residential	35342.65654	5.75%
SP1 Special Activities	20312.38393	3.30%
E3 Environmental Management	8622.641072	1.40%
RU3 Forestry	1737.256433	0.28%
RU5 Village	683.1765225	0.11%
E2 Environmental Conservation	372.6540733	0.06%
R1 General Residential	96.74213	0.02%
RE2 Private Recreation	92.35307847	0.02%
SP3 Tourist	95.9536761	0.02%
IN1 General Industrial	68.92847071	0.01%
R2 Low Density Residential	75.71782996	0.01%
RE1 Public Recreation	63.21675842	0.01%
SP2 Infrastructure	42.2862438	0.01%
B1 Neighbourhood Centre	3.366989823	0.00%
B2 Local Centre	15.20575767	0.00%

Waterways, Water Storage and Lakes

Water Catchments

TABLE 4 – River Systems

River Name	Major Communities on River System
Bombala River	Bombala Township
Bredbo River	Bredbo Township
Coolumbooka	Cathart Village
Cooma Creek	Cooma Township
Delegate River	Delegate Township
McLaughlin	
Murrumbidgee River	Bredbo Community, Bumbalong Road Community, Smiths Road Community (adjacent to and into ACT)
Numeralla River	Numeralla Township
Snowy River	Dalgety Township
Tuross River	

Rivers and Creeks

Where **1** is a Major River **4** is a creek

Note Rivers on boundaries listed in one of the former LGA's only e.g. Murrumbidgee, Bobundara Creek Also in former Snowy River LGA, Snowy River also in former Bombala, Cooma Creek and McLaughlin River in former Cooma-Monaro area.

TABLE 5 – Rivers and Creeks

Former SNOWY RIVER	Former COOMA-MONARO	Former BOMBALA
1	1	2
MURRAY RIVER	MURRUMBIDGEE RIVER	DELEGATE RIVER
SNOWY RIVER	2	3
2	NUMERALLA RIVER	BOMBALA RIVER
EUCUMBENE RIVER	QUEANBEYAN RIVER	GENOA RIVER
3	3	MACLAUGHLIN RIVER
THREDBO RIVER	BREDBO RIVER	4
4	4	BYADBO CREEK
COOMA BACK CREEK	ALUM CREEK	CAMBALONG CREEK
COOMA CREEK	BALLINAFAD CREEK	COOLUMBOOKA RIVER
FRYING PAN CREEK	BIG BADJA RIVER	CORROWONG CREEK
GOORUDEE RIVULET	BOBUNDARA CREEK	JACKSONS BOG
GROSSES PLAIN CREEK	COWRA CREEK	LITTLE PLAINS RIVER
GUNGARLIN RIVER	KYBEYAN RIVER	SAUCY CREEK
INGEEOODBEE RIVER	ROCK FLAT CREEK	UNDOWAH RIVER
IRONPOT CREEK	STRIKE-A-LIGHT RIVER	
JACOBS RIVER		
MATONG CREEK		
MOWAMBA RIVER		
NUNGAR CREEK		
PINCH RIVER		
STONY CREEK		
WOLLONDIBBY CREEK		
WULLWYE CREEK		

Water Storage Infrastructure

TABLE 6 – Water Storage Infrastructure

NAME	River System	Capacity & Supply	Owner/Operator	RISK LEVEL (Dam Safety Emergency Committee rated)
Delegate Flood Retarding Basin	Delegate River	150ML does NOT supply drinking water	Snowy Monaro Regional Council	(Designated)
Tantangara Reservoir	Murrumbidgee River	250 000 ML	Snowy Hydro Ltd	Designated
Coolumbooka Weir	Coolumbooka River	250 ML capacity Suppliers Drinking Water to Bombala	Snowy Monaro Regional Council	
Lake Jindabyne	Snowy River	Drinking water to Jindabyne & East Jindabyne 690 000ML	Snowy Hydro Ltd	Designated
Lake Eucumbene	Snowy River	Drinking Water to Adaminaby 4 800 000 ML	Snowy Hydro Ltd	Designated
Guthega Dam	Snowy River	1830 ML	Snowy Hydro Ltd	Designated
Island Bend Dam	Snowy River	3020 ML	Snowy Hydro Ltd	Designated
3 Mile Dam	Snowy River		Nat Parks	
Lake Wallace Dam	MACLAUGHLIN RIVER	350 ML Drinking water to Nimmitabel	Snowy Monaro Regional Council	

Population and People

The Snowy Monaro Emergency Management area includes all of the major communities and the relevant statistics as shown in **Table 7 and 7.1**, as well as many smaller hamlets and communities dispersed within the area.

TABLE 7 – Population by Town

Town	Population (2021)
Bibbenluke	82
Bombala	1372
Cathcart	106
Delegate	295
Bredbo	392
Cooma	6715
Michelago	642
Nimmitabel	324
Numeralla	254
Jindabyne	2986
East Jindabyne	1067
Kalkite	294
Berridale	1300
Dalgety	252
Adaminaby	339
Anglers Reach	78

TABLE 7.1 – Population Summary and Forecast

Population Summary and Forecast							
Area	Forecast Year					Change between 2021 and 2041	
	2021	2026	2031	2036	2041	Total Change	Avg. annual % change
Snowy Monaro Regional Council	21,300	22,059	22,573	23,384	24,384	+3,816	+0.68
Berridale and surrounds	1,711	1,808	1,902	2,008	2,119	+519	+1.13
Bombala	1,358	1,340	1,325	1,327	1,337	-46	-0.14
Canberra Corridor	1,235	1,284	1,348	1,555	1,830	+630	+1.70
Cooma	7,725	8,015	8,075	8,265	8,493	+1,007	+0.51
Jindabyne	4,373	4,646	4,864	5,100	5,324	+1,254	+1.08
Rural East	2,454	2,512	2,575	2,642	2,700	+323	+0.51
Rural West	2,445	2,454	2,483	2,525	2,580	+130	+0.21

Table downloaded from forecast.id.com.au

Age Profile of the LGA

TABLE 8 – Population Profile

Local Government Area	Population	Over 64		Under 15		Persons living alone		Land Area
		#	%	#	%	#	%	
Snowy Monaro Regional Area	20,218	3,872	19%	3,462	17%	2,294	11%	15163.50 km2

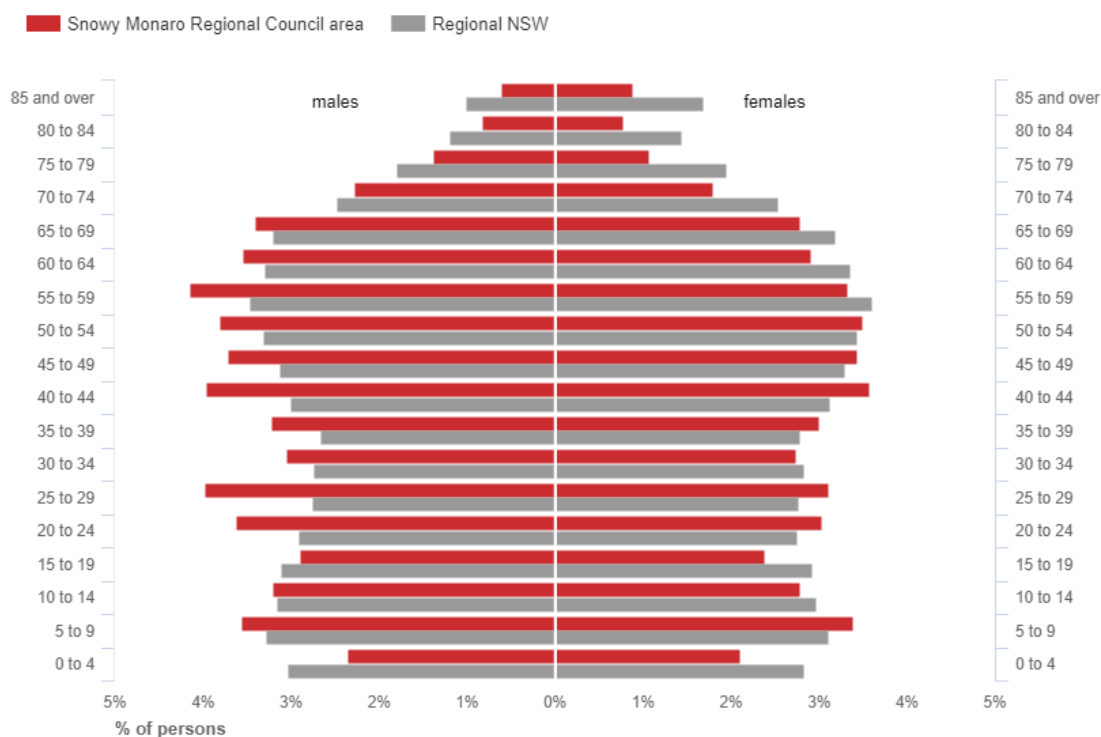
TABLE 9 – Population and Housing

AUSTRALIAN BUREAU OF STATISTICS 2021 Census of Population and Housing			
Snowy Monaro Regional LGA - 15,163.50 sq Kms			
AGE PROFILE			
	Males	Females	Total Persons
Total persons	11,169	10500	21669
Age groups:			
0-4 years			1,005
5-9 years			1,159
10-14 years			1,390
15-19 years			1,200
20-24 years			1,152
25-29 years			1,460
30-34 years			1,349
35-39 years			1,296
40-44 years			1,181
45-49 years			1,448
50-54 years			1,564
55-59 years			1,570
60-64 years			1,614
65-69 years			1,273
70-74 years			1,175
75-79 years			811
80-84 years			538
85 years and over			483

TABLE 10 – Aboriginal and Torres Strait Islander Persons

Indigenous persons:			
Aboriginal			627
Torres Strait Islander			26
Both Aboriginal and Torres Strait Islander(a)			14
<i>Total</i>			665

Age-sex pyramid, 2021



Source: Australian Bureau of Statistics, Census of Population and Housing, selected years between 1991-2021 (Enumerated data). Compiled and presented in profile.id by .id (informed decisions).

Language Profile of the LGA

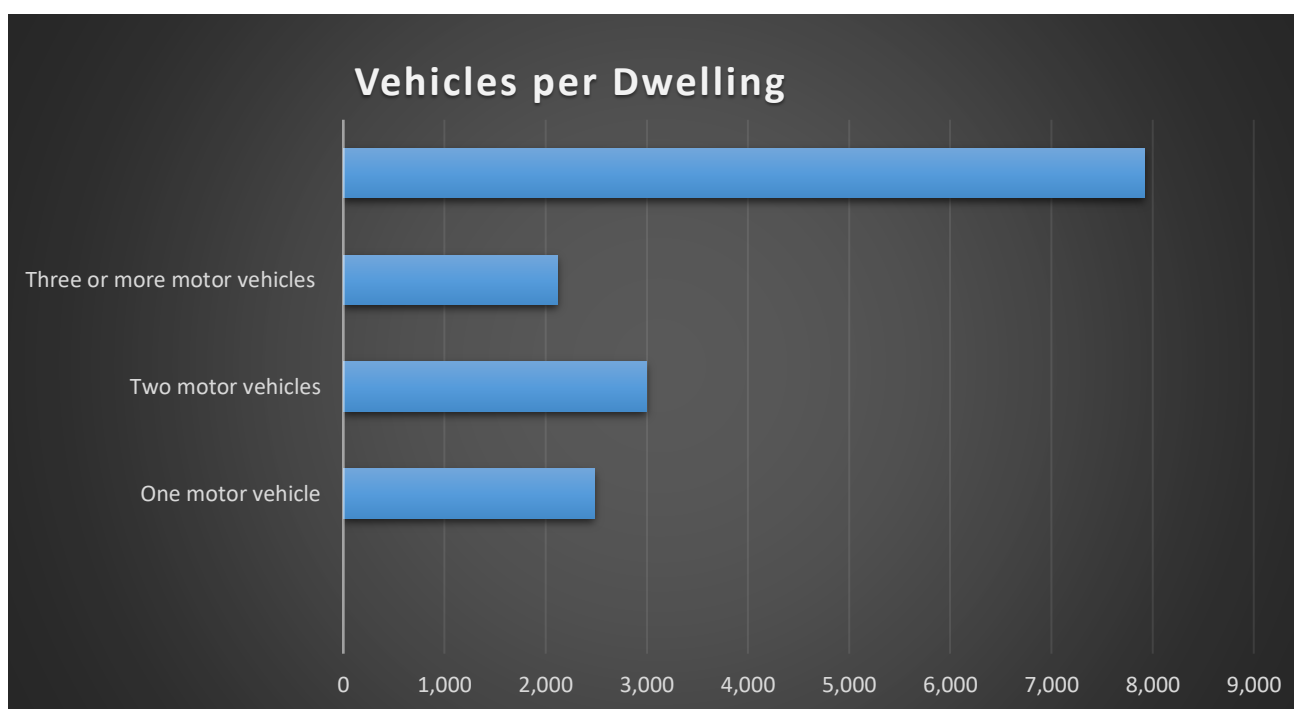
TABLE 11 – Home Languages

Snowy Monaro Regional LGA - 15,163.50 sq Kms Home Language	
Speak English Only - Total persons	18,588
Speak Another language at Home	689
Top 5 Other Languages Spoken:	
German	145
Mandarin	142
Spanish	104
Italian	89
Thai	57

Vehicles per Dwelling of the LGA

TABLE 12 – Vehicles per Dwelling

Vehicles Per Dwelling of the LGA	
Number of motor vehicles per Dwelling by Former LGA:	Snowy Monaro
No motor vehicles	317
One motor vehicle	2,480
Two motor vehicles	2,993
Three or more motor vehicles	2,113
Total	7,918
Number of motor vehicles not stated	134
Total response	8,052



Economy and Industry

The primary economy base of the area is:

- Tourism, Retail, Recreation, Accommodation and Food Services
- Agriculture (primarily sheep and cattle grazing)
- Forestry (including sawmilling)
- Construction and Utilities
- Public Service and Healthcare and Social Assistance

Industry of Employment for the LGA

TABLE 13 – Industry

INDUSTRY TYPE	Snowy Monaro Regional Council
Agriculture, forestry and fishing	954
Mining	47
Manufacturing	311
Electricity, gas, water and waste services	368
Construction	1,093
Wholesale trade	200
Retail trade	975
Accommodation and food services	1,470
Transport, postal and warehousing	394
Information media and telecommunications	90
Financial and insurance services	103
Rental, hiring and real estate services	210
Professional, scientific and technical services	457
Administrative and support services	322
Public administration and safety	967
Education and training	898
Health care and social assistance	867
Arts and recreation services	560
Other services	329
Inadequately described/Not stated	439
Total (employed persons aged 15+)	11,054

Dwelling Types for the LGA

TABLE 14 – Dwelling Types

DWELLING STRUCTURE TYPES	Occupied private dwellings
Separate house	6,995
Semi-detached, row or terrace house, townhouse etc.	385
Flat, Unit or Apartment	551
Other dwelling	60
Dwelling type not stated	52
Total occupied private dwellings	8,043
Unoccupied private dwellings	2,550
Total private dwellings	10,593

Dwellings by Type and Tenure

TABLE 15 – Occupied Dwellings

Count of Occupied Dwellings	Snowy Monaro Regional Council	Percentage
Owned outright	3,232	40.2
Owned with a mortgage(b)	2,501	31.1
Rented	1,920	23.9
Other tenure type	242	3.0
Tenure type not stated	140	1.7
Total	8,035	99.9

Transport Routes and Facilities

During the winter season (June-October) the population increase due to transient persons can exceed 11,000. As many as 25,000 people pass through the Cooma and Berridale Townships daily on their way to and from the snowfields. The main transport corridors for motor vehicles and goods transport through the area are:

- a) Snowy Mountains Highway (To the Snowy Mountains and main route to Bega)
- b) Monaro Highway (From Canberra through Cooma to Victoria through Bombala)
- c) Kosciuszko Rd (From Cooma to Jindabyne & the Snowy Mountain Resorts)
- d) The Alpine Way (From Jindabyne to the Alpine Resorts and beyond)

Transport NSW (TNSW) have produced **Incident Response Plans** for the major transport routes under their responsibility that are within the Southern Monaro. Refer to these plans when implementing major traffic management strategies in response to an emergency.

Major roads within the Snowy Monaro that have Incident Response Plans, are listed below in Table 16.

TABLE 16 – TNSW Incident response Plans within the Snowy Monaro area

ROAD NAME	ROAD No.	No of Plans	Council Area/s
Snowy Mountains Highway		Design Stage	Snowy Monaro Regional Council
Monaro Highway		Design Stage	Queanbeyan Snowy Monaro Regional Council
Kosciuszko Rd		TBA	TNSW & Snowy Monaro Regional Council
Alpine Way		TBA	TNSW & Snowy Monaro Regional Council

The Incident Response Plans developed for roads outside of Southern Monaro Area but in which diversions will affect roadways within the district are listed at Table 17.

TABLE 17 – TNSW Incident response Plans outside of but affecting the Snowy Monaro Regional Council Area

ROAD NAME	ROAD No.	No of Plans	Council Area/s
Princes Highway (Batemans Bay)	HW1	1	Palerang, Snowy Monaro Regional Council, Eurobodalla
Princes Highway (Moruya)	HW1	1	Palerang, Snowy Monaro Regional Council, Eurobodalla
Princes Highway (Narooma to Tilba Tilba)	HW1	3	Palerang, Snowy Monaro Regional Council, Eurobodalla
Princes Highway (Between Tilba Tilba and Bermagui Rd)	HW1	1	Palerang, Snowy Monaro Regional Council, Eurobodalla

Rail

A large extent of de-commissioned and unusable rail line still exists in places between Queanbeyan and Bombala via Cooma and Bungendore to Captains Flat.

Ski Tube (underground electric passenger train) operates between Bullocks Flat (Alpine Way) & Blue Cow Ski Resort (National Parks) 6.3km long tunnel. (The longest & deepest transport tunnel in Australia – 550m at the deepest point.)

Airports

Airports located within, near or with flight paths over the Snowy Monaro Local Emergency Management area that increase the risk of an aviation emergency outside of airport boundaries are detailed at Table18.

TABLE 18 – Airports

NAME	LOCALITY		COORDINATES	ELEVATION	EMERGENCY PLAN
Cooma - Snowy Mountains Airport	Kosciuszko Rd	15km SW of Cooma	S36 ⁰ 08'07" E148 ⁰ 58'19"	2701ft	Yes
Jindabyne Airstrip	Jindabyne	5km SW of Jindabyne	X643576.22 Y5967359.46 Projected Longitude (decimal degrees): 148.601674 Projected Latitude (decimal degrees): -36.428244	TBC	Yes

Bunyan Glider Strip Private Airstrip	Bunyan	15km NE Cooma on Monaro Highway	S36° 08'07" E149° 08'38"	2595ft	No
Bombala Airstrip	Airstrip Road	8km W of Bombala	S36.9° 6'469"	2411ft	No
Private Airstrip	Lower Bendoc Road	3km S of Delegate	-37.062680 +148.940358	2559ft	No

Transport in the Snowy Monaro Regional Council Area - General

According to the latest (2021) data:

- Residents of the region are highly dependent on cars for transportation
- Just 3.9% of households do not have a car compared with 9% for New South Wales
- The Snowy Monaro Regional Council Area is connected by an extensive road network that includes 725 km of sealed and 1793 km of unsealed roads
- Snowy Monaro Regional Council auspices a Community Transport Service for Council residents. In the 2020-2021 financial year, this service provided approximately 9,500 trips and travelled approximately 380,000 kilometres. More than 900 people have used this service.

Annexure B – Hazards and Risks Summary

The Snowy Monaro Local Emergency Management Committee carried out an Emergency Risk Management Assessment (21st April 2022) 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 the potential to create an emergency.

Hazard	Risk Description	Likelihood Rating	Consequence Rating	Risk Priority	Combat / Responsible Agency
Agricultural Disease (Animal/Plant)	An agriculture/horticulture incident that results, or has potential to result, in the spread of a communicable disease or infestation.	Possible	Major	E - Extreme	Department of Primary Industries (Trade)
Communicable Disease (Human/Animal)	Pandemic illness that affects, or has potential to affect, large portions of the human or animal population	Likely	Major	E - Extreme	Department of Health
Fire (Bush or Grass)	Major fires in areas of bush or grasslands.	Likely	Major	E - Extreme	NSW RFS FRNSW
Utilities Failure	Major failure of essential utility for unreasonable periods because of a natural or manmade occurrence.	Possible	Major	E - Extreme	LEOCON
Fire (Industrial)	Serious industrial fire in office complexes and/or warehouses within industrial estates.	Likely	Major	E - Extreme	FRNSW NSW RFS

Fire (Commercial)	Serious commercial fires in shopping centres, aged persons units, nursing homes and hospitals.	Likely	Major	E - Extreme	FRNSW NSW RFS
Fire (Residential)	Serious residential fire in medium / high rise apartments.	Likely	Major	E - Extreme	FRNSW NSW RFS
Transport Emergency (Road)	A major vehicle accident that disrupts one or more major transport routes that can result in risk to people trapped in traffic jams; restrict supply routes and/or protracted loss of access to or from the area.	Likely	Major	E - Extreme	LEOCON
Earthquake	Earthquake of significant strength that results in localised or widespread damage.	Possible	Catastrophic	E - Extreme	LEOCON
Flood (Flash)	Heavy rainfall causes excessive localised flooding with minimal warning time	Likely	Moderate	H - High	NSW SES
Flood (Riverine)	River flows exceed the capacity of normal river systems resulting in flood waters escaping and inundating river plains	Likely	Moderate.	H - High	NSW SES
Building Collapse	Collapse of building owing to structural failure or impact from external/internal event of other hazards /incidents.	Unlikely	Major	H - High	FRNSW (USAR) LEOCON
Dam Failure	A dam compromise results in localised or widespread flooding.	Rare	Catastrophic	H - High	Dam Owners NSW SES

Major Hazardous Release	Hazardous material released because of an incident or accident.	Likely	Moderate	H - High	FRNSW
Landslip	Landslip/landslide resulting in localised or widespread damage.	Likely	Moderate	H - High	LEOCON
Storm	Severe storm with accompanying lightning, hail, wind, snow and/or rain that causes severe damage and/or localised flooding.(includes tornado)	Likely	Moderate	H - High	NSW SES
Transport Emergency (Air)	Aircraft crash in LGA resulting in large number of fatalities, injuries and/or damage to property.	Likely	Major	H - High	LEOCON
Transport (Rail)	Accident or incident on Ski Tube service	Possible	Major	H - High	LEOCON
Bridge Collapse	Failure of a major bridge structure with or without warning owing to structural failure or because of external/ internal events or other hazards/ incidents.	Rare	Moderate	M - Medium	LEOCON
Heatwave	A sequence of abnormally hot conditions having the potential to affect a community adversely.	Unlikely	Minor	L - Low	SEOCON
Evacuation	Generic Evacuation CMG				LEOCON

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

The LEMO retains these plans on behalf of the LEMC and public release versions are made available on the Snowy Monaro Regional Council Website.

Plan/ Policy	Purpose	Responsible Agency	Document Location
<p>Fire (Bush or Grass).</p> <p>Bombala Bush Fire Management Committee Risk Management Plan</p> <p>Snowy Monaro Bush Fire Management Committee Risk Management Plan</p> <p>Snowy Monaro Bush Fire Management Committee Section 52 Operations Coordination Plan</p>	<p><u>Section 52 Operations Coordination Plan</u></p> <p>This Plan is prepared under Section 52 of the Rural Fires Act 1997 and applies to the local government area of Snowy Monaro Regional Council. The Plan outlines the coordinated response to fires within the fire district and the responsibilities of fire services and fire-fighting authorities in that response.</p> <p><u>Bush Fire Risk Management Plan</u></p> <p>These Plans identify assets at risk of bushfire in the local government area and outlines strategies that will be implemented to protect these assets. The strategies adopted range from community engagement events to hazard reduction activities.</p>	<p>Snowy Monaro Bush Fire Management Committee</p>	<p>CM9 23/9521</p> <p>https://www.rfs.nsw.gov.au/_data/assets/pdf_file/0019/2629/Snowy-Monaro-BFRMP.pdf</p> <p>CM9 23/9523</p>

Snowy Monaro Regional Council Flood and Floodplain Risk Management Studies and Plans	The State Floodplain Management Program managed by the OEH funded Council to undertake flood studies and floodplain risk management studies	Snowy Monaro Regional Council	CM9 23/9526
Snowy Monaro Local Flood Plan (Volume 1) Snowy Monaro Local Snow Plan	The Plan covers the preparedness measures, the conduct of response operations and the coordination of immediate recovery measures from flooding and Snow events within the Snowy Monaro regional LGA. It covers operations for all levels of flooding and snowfall within the council area.	NSW SES	CM9 23/9532 CM9 23/90890
Welfare Services Functional Area supporting plan	Welfare Support in the event of any emergency requiring significant and coordinated response.	Department of Community and Justice	https://www.nsw.gov.au/sites/default/files/2021-04/Supporting-Plan-Welfare-Services-Functional-Area.pdf
Utilities Failure: Electricity: - Network Services Escalation and Recovery Plan	To list contacts ,suppliers and stakeholders in the event of a major incident	LEOCON Essential Energy	CM9 23/9537
Biosecurity Emergency (Animal/Plant) AUSVETPLAN AQUAVETPLAN PLANTPLAN	The Snowy Monaro region has multiple animal and plant producers including sheep, beef, cereal cropping and horticulture. Biosecurity measures are in place however, the introduction of certain animal and plant diseases has the potential to damage these industries. The area also has significant numbers of small area landholders, many with horses and other livestock.	DPI - LLS	https://animalhealthaustralia.com.au/ausvetplan/ https://www.agriculture.gov.au/agriculture-land/animal/aquatic/aquavetplan https://www.planthealthaustralia.com.au/wp-content/uploads/2022/12/PLANTPLAN_Full-manual-Issued-13-Dec-2022_updated.pdf

<p>Airport Emergency</p> <p>Snowy Mountains Aerodrome - Emergency Management Plan</p>	<p>To provide a timely and coordinated response to, and initial recovery from, an emergency at Cooma (Snowy Mountains) Aerodrome</p>	<p>LEOCON</p> <p>Snowy Mountains Aerodrome Emergency Committee</p>	<p>CM9 23/9542</p>
<p>Dam Failure/Collapse - Jindabyne Dam Safety Emergency Plan</p> <p>Eucumbene Dam Safety Emergency Plan</p> <p>Island Bend Dam Safety Emergency Plan</p> <p>Guthega Dam Safety Emergency Plan</p>	<p>Dam Failure or Collapse</p>	<p>SES</p> <p>Snowy Hydro</p>	<p>https://www.damsafety.nsw.gov.au/home</p>
<p>Ski Tube Accident/ Breakdown</p>	<p>To provide a timely and coordinated response to, and initial recovery from, an emergency at Perisher Ski Tube</p>	<p>LEOCON</p> <p>Perisher</p>	
<p>Landslip</p>	<p>To provide a timely and coordinated response to, and initial recovery from, an emergency arising from a landslip</p>	<p>LEOCON</p>	<p>See CMG for landslip CM9 23/9544</p>

NSW Disaster Waste Sub-plan	This sub plan sets out the arrangements for managing waste generated from incidents and emergencies in NSW.	EPA, NSW Government	Emergency waste sub plan NSW Government
Rescue Resource Register	To provide a list of Rescue Agency Resources during an emergency	SES	
		RFS	23/85430
		FRNSW	23/85425
		Ambulance	