BERRIGAN LGA
DATABOOK

MPHN HEALTH NEEDS ASSESSMENT
2022-2025

hna community feedback

hna yarns on the couch

CONVERSATIONS ON THE COUCH
TAKING THE PULSE ON PRIMARY HEALTH

phn MURRUMBIDGEE
An Australian Government Initiative

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HEALTH NEEDS ASSESSMENT PROCESS

The Murrumbidgee Health Needs Assessment, in line with the firstHealth Board endorsed framework, with governance provided by Clinical Councils, the Community Advisory Committee and the Planning and Integration sub-committee, uses a population approach to needs assessment using person centred planning with a strong commitment to community input.

Murrumbidgee Primary Health Network (MPHN) analyses data from robust gold standard comparable sources such as the Australian Bureau of Statistics and Australian Institute of Health and Welfare in the first instance supplemented by other sources. A decision-making tool is used at MPHN which identifies and prioritises needs based on variables that score local impact relative to national data, where MPHN is in the lowest third of the nation. Further, a Data Prioritisation Tool (refer page 23 for details) is used at a Local Government Area (LGA) level to identify areas where issues/needs are higher in comparison to the New South Wales (NSW) and Murrumbidgee averages. This highlights the LGAs in the lower half of the Murrumbidgee region and is summarised separately in the region profiles on MPHN's website. The matrix scoring is described at the end of this document in more detail. Throughout this document variables scoring three or greater using the matrix are denoted by their respective colour coding, these variables are likely to have higher impact within this LGA.

The use of an LGA approach ensures we are working in alignment with the Murrumbidgee Local Health District (MLHD) health clusters. This allows a more considered co-ordinated approach to services and reduces on duplication of service delivery.

Inequity in healthcare remains a significant issue for many areas in the Murrumbidgee region. Comprehensive socio-economic profiling allows identification of areas where this may affect uptake of healthcare services and consequent poorer health outcomes for those living in these areas. MPHN emphasises in identification of priorities for the region the particular local government areas where efforts should be concentrated in order to address the inequity.

Monitoring of emerging health conditions remains a priority for MPHN with ongoing consultations aimed at identification of emerging issues and subsequent interventions.

MPHN undertakes consultation with key partners, health professionals and community members. Multiple formats are used to undertake these consultations including:

CONVERSATIONS ON THE COUCH

A community consultation approach to capture the needs of people who would not normally engage through a formal process. Community members are invited to meet in a neutral location with high thoroughfare to allow people to chat MPHN staff in a face-to-face environment to discuss health matters important to them. There is no set agenda or questions and is simply an opportunity for people to let MPHN know about health matters important to them and their community. Information gathered during these conversations is collected and used to help MPHN better understand the health needs of our communities.

YARNS ON THE COUCH

Yarns on the Couch is an extension of our Conversations on the Couch with a focus on Aboriginal health. Data collected at both activities is used to help guide the Health Needs Assessment.

HNA COMMUNITY FEEDBACK

There are two options for survey feedback, one short form survey called HNA Mini, and one longer form survey of 17 questions called HNA Community Feedback. Both these survey mechanisms have also been modified to target Aboriginal and Torres Strait Islander people, or those who care for this population group. All these surveys are available year-round and aim to gather information about emerging health needs.

OTHER FEEDBACK MECHANISMS

There are several other opportunities for MPHN to capture feedback from our stakeholders. This includes, but not limited to:

- Incidental feedback from community and health care practitioners to MPHN staff during the normal course of business operations.
- An audit annually of general practice and health care providers to inform workforce capacity.
- MPHN co-design and formal consultation with specific population groups as part of commissioned project work.
- Engagement with MPHN's partners in our various consortium, alliance and steering committee groups. These groups cover various issues relating to Aboriginal health; older people and aged care; mental health, alcohol and other drug, and suicide prevention and aftercare; chronic disease; and emergency response.
- Engagement and feedback with Local Health Advisory Committees (LHACS) which are situated in 33 locations throughout the Murrumbidgee region.
- Feedback from MPHN's governance members, including Board Directors, and members the Community Advisory Committee and four Clinical Councils.
- Review of data collected by its commissioned services throughout the year and other internal data sources to confirm service provision and identify service gaps that may exist.
- Media and social media monitoring for local emerging health needs and issues.

Once all information is gathered and analysed by MPHN, data is provided back to communities and health providers for validation of the developed priorities from the data.

DATA DISCLAIMER

This report is presented for the purpose of disseminating information for the benefit of people living in Murrumbidgee communities. The report includes data freely available on public websites such as the Australian Institute of Health and Welfare and the Australian Bureau of Statistics.

Data in this report remain confidential and primarily for MPHN's internal use. This report may be shared externally with express permission at the discretion of MPHN's CEO. If the latter is the case data may be used by an external organisation for planning purposes but should not be shared outside that organisation.

Data from Commonwealth secure confidential websites have not been included in this report. Data have not been interpreted.

MPHN has taken all steps to ensure the information in this report is as accurate as possible and correct at time of report. Data may vary to other publically available sources due to differing sources accessed.

MPHN does not guarantee, and accepts no legal liability whatsoever arising from, or connected to, the use of any material contained in this report. MPHN recommends users exercise their own skill and care with respect to use of this report.

Contact for data queries: hna@mphn.org.au

BERRIGAN LGA

ALBURY 123KM
Nearest Regional
Referral Hospital

BAROOGA 30KM

WAGGA WAGGA 180KM

TOCUMWAL 37KM

FINLEY 23KM

BERRIGAN

POSTCODE	TOWNS
2712	Berrigan, Boomanoomana
2713	Finley
2714	Barooga (borders with Murray PHN, 3644), Tocumwal (borders with Murray PHN)

EXECUTIVE SUMMARY

The Berrigan Local Government Area (LGA) includes the towns of Berrigan, Finley and Tocumwal, Barooga and Boomanoomana, with a population of 8,784. Berrigan LGA has the 11th highest population out of the 21 LGAs in the MPHN and is 18th in land area with a fourth highest population density of 4.1 people per square kilometre.

The largest towns in the Berrigan LGA are Tocumwal and Finley, with each having population of over 2,000 people. The closest referral hospital is in Albury in the Murray PHN and as such people from the Berrigan LGA may access this and other health services outside of MPHN's region. Median weekly household income is similar between towns (range = $980 to $1,342). Socioeconomic index for the Berrigan LGA and its towns is lower than the NSW and MPHN average.

The population of Aboriginal and Torres Strait Islander people is lower than the MPHN and NSW average. Estimated growth between 2021 to 2041 in Berrigan LGA is modest and expected to be 12.3 per cent, with the growth greatest among those aged greater than or equal to 65 years. The LGA has higher than MPHN averages for those aged greater than or equal to 65 years and nearly double that of NSW. Given the older population, Berrigan LGA has a higher proportion of pension concession card holders, compared to NSW and the MPHN averages.

Berrigan LGA has a higher total fertility rate compared to the NSW average. Rates of smoking during pregnancy are similar to other MPHN LGAs, which are both higher than the NSW average. Berrigan LGA has a higher proportion of Australian born population compared to NSW, but this region has lower proportions people predominantly non-English speaking countries compared to NSW.

Berrigan LGA residents have higher age standardised rates of premature death for males compared to NSW and MPHN. For females, age standardised rates of premature death are similar to both the NSW and MPHN. Median age of death is similar for males and females compared to the NSW averages. Compared to the NSW and MPHN average, premature deaths from lung cancer, ischaemic heart disease, and circulatory system diseases, are higher among those living in the Berrigan LGA. The proportion of people aged 15 years and over reporting 'fair' or 'poor' self-assessed health is higher in the Berrigan LGA compared to whole MPHN and NSW. Berrigan LGA has a greater proportion of males who report consumed greater than2 standard alcoholic drinks per day on average, when contrasted to the NSW and MPHN data.
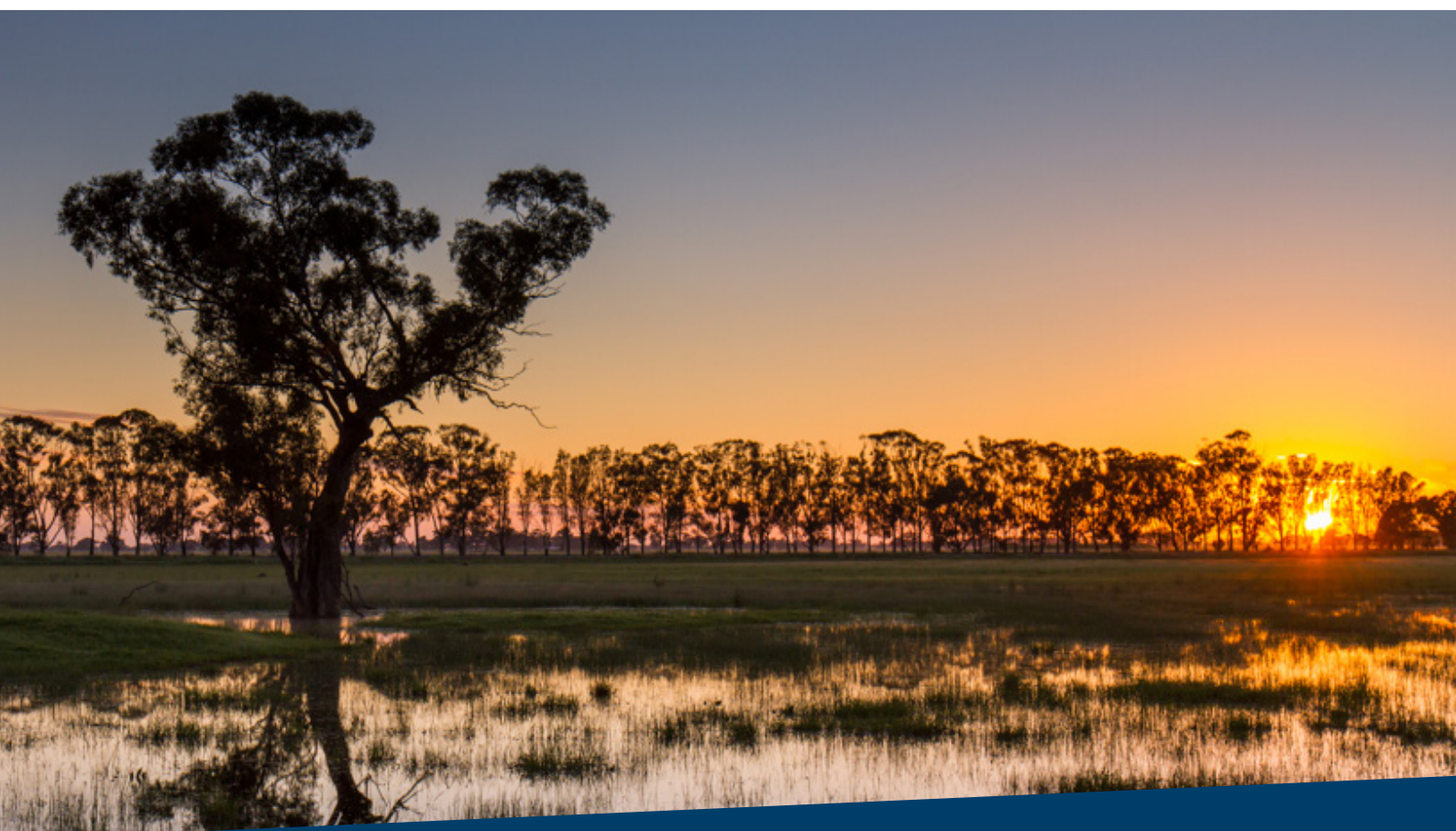
POPULATION AND GEOGRAPHY

ESTIMATED RESIDENT POPULATION	POPULATION CHANGE BETWEEN 2022-2041	LGA AREA KM²	POPULATION DENSITY PERSONS/KM²
AUSTRALIA BUREAU OF STATISTICS 2021 (ABS 2021)			
MPHN total population = 248,740 8,665	1,113 (12.3%)	2,066	4.3

ESTIMATED POPULATION CHANGE 2021-2041			
NSW PLANNING & ENVIRONMENT 2021			
UNDER 19 YEARS	20-64 YEARS	65+ YEARS	TOTAL YEARS
2022 N=1,865 2041 N=1,924 59 (3.2%)	2022 N=4,223 2041 N=4,670 477 (10.6%)	2022 N=2,680 2041 N=3,302 662 (32.2%)	2022 N=8,768 2041 N=9,897 1,129 (12.3%)

TOWN BASED POPULATIONS AND DEMOGRAPHY

	POPULATION	MEDIAN AGE	NUMBER PRIVATE DWELLINGS	AVERAGE PEOPLE PER HOUSEHOLD	NUMBER OF FAMILIES	AVERAGE CHILDREN PER FAMILY
ABS 2021						
Barooga	1,888	47	837	2.3	503	1.8
Berrigan	1,264	55	659	2.2	344	2.2
Finley	2,455	51	1,186	2..2	606	2.4
Tocumwal	2,862	59	1,411	2.2	737	2.2

	MEDIAN WEEKLY HOUSEHOLD INCOME	MEDIAN MONTHLY MORTGAGE REPAYMENT	MEDIAN WEEKLY RENT
ABS 2021			
Barooga	$1,342	$1,360	$270
Berrigan	$980	$933	$173
Finley	$1,066	$953	$175
Tocumwal	$1,067	$1,300	$250

POPULATION OTHER TOWNS	
ABS 2021	
Boomanoomana	116

DEMOGRAPHY

SEIFA			
ABS 2016			
	INDEX SCORE (BASED ON AUSTRALIAN SCORE OF 1000)	MINIMUM SCORE FOR SA1S IN AREA	MAXIMUM SCORE FOR SA1S IN AREA
NSW	*1,017*	*479*	*1,281*
MPHN	*969*	*478*	*1,144*
Berrigan LGA	**954**	**850**	**1,049**
Barooga	971		
Berrigan	908		
Finley	927		
Tocumwal	949		

AGE GROUPS								
ERP 2020								
	PERSONS 0-14 YEARS	PERSONS 15-24 YEARS	PERSONS 25-44 YEARS	PERSONS 45-64 YEARS	PERSONS 65+ YEARS	PERSONS 70+ YEARS	PERSONS 75+ YEARS	PERSONS 85+ YEARS
NSW	*18.5%*	*12.8%*	*28.0%*	*24.6%*	*15.7%*	*10.7%*	*7.0%*	*2.2%*
MPHN	*19.6%*	*12.0%*	*22.6%*	*25.7%*	*18.9%*	*13.3%*	*8.7%*	*2.7%*
Berrigan	**1,416 (16.6%)**	**802 (9.1%)**	**1,657 (18.9%)**	**2,228 (25.4%)**	**2,681 (30.5%)**	**1,593 (22.0%)**	**1,175 (13.4%)**	**338 (3.8%)**

GENDER				
ABS 2021				
	MALES		FEMALES	
	N	%	N	%
NSW	*3,984,166*	*49.4*	*4,087,995*	*50.6*
MPHN	*125,500*	*50.3*	*126,798*	*49.7*
Berrigan	**4,261**	**49.2**	**4,402**	**50.8**

EDUCATION				
ABS 2020				
	PEOPLE WHO LEFT SCHOOL AT YEAR 10 OR BELOW, OR DID NOT GO TO SCHOOL	FULL-TIME PARTICIPATION IN SECONDARY SCHOOL EDUCATION AT AGE 16	PARTICIPATION IN VOCATIONAL EDUCATION AND TRAINING - NON-INDIGENOUS POPULATION	SCHOOL LEAVER PARTICIPATION IN HIGHER EDUCATION
NSW	*33.0 per 100*	*84.1%*	*17.8 per 100*	*28.3%*
MPHN	*42.0 per 100*	*74.2%*	*18.6 per 100*	*10.9%*
Berrigan	**37.0 per 100**	**80.3%**	**15.8 per 100**	**NR***

*Not reported

EMPLOYMENT

ABS 2020		
	LEARNING OR EARNING AT AGES 15 TO 19	UNEMPLOYMENT
NSW	85.0%	4.9%
MPHN	81.7%	4.8%
Berrigan	602 (79.7%)	130 (3.1%)

WEEKLY INCOME

ABS 2021		
	LESS THAN $650 TOTAL HOUSEHOLD WEEKLY INCOME	MORE THAN $3,000 TOTAL HOUSEHOLD WEEKLY INCOME
NSW	16.3%	26.9%
MPHN	22.3%	13.9%
Berrigan	24.9%	10.8%

EMPLOYMENT SUPPORT

ABS 2020			
	AGE PENSIONERS	DISABILITY SUPPORT PENSIONERS	FEMALE SOLE PARENT PENSIONERS
NSW	59.0%	4.6%	3.1%
MPHN	60.3%	6.3%	5.4%
Berrigan	1,805 (67.3%)	355 (7.3%)	88 (5.1%)

ABS 2020			
	PEOPLE RECEIVING AN UNEMPLOYMENT BENEFIT	PEOPLE RECEIVING AN UNEMPLOYMENT BENEFIT LONG-TERM	YOUNG PEOPLE AGED 16 TO 24 RECEIVING AN UNEMPLOYMENT BENEFIT
NSW	6.2%	5.6%	5.0%
MPHN	7.1%	6.4%	6.1%
Berrigan	374 (8.1%)	332 (7.2%)	22 (4.1%)

INCOME SUPPORT

ABS 2020				
	LOW INCOME, WELFARE-DEPENDENT FAMILIES (WITH CHILDREN)	HEALTH CARE CARD HOLDERS	PENSIONER CONCESSION CARD HOLDERS	SENIORS HEALTH CARD HOLDERS
NSW	4.6%	6.7%	21.1%	10.9%
MPHN	5.4%	7.3%	27.3%	10.3%
Berrigan	97 (4.6%)	513 (8.4%)	2,629 (35.7%)	249 (9.3%)

HOUSEHOLDS

ABS 2020		
	HOUSEHOLDS IN DWELLINGS RECEIVING RENT ASSISTANCE FROM THE AUSTRALIAN GOVERNMENT	DWELLINGS RENTED FROM THE GOVERNMENT HOUSING AUTHORITY
NSW	18.3%	4.7%
MPHN	17.9%	3.4%
Berrigan	595 (18.1%)	48 (1.5%)

HOUSEHOLDS		
ABS 2020		
	*MORTGAGE STRESS	*RENTAL STRESS
NSW	9.6%	27.9%
MPHN	8.2%	25.7%
Berrigan	86 (9.9%)	783 (24.3%)

Low income households (households in bottom 40% of income distribution)

FAMILIES			
ABS 2018			
	SINGLE PARENT FAMILIES WITH CHILDREN AGED LESS THAN 15 YEARS	JOBLESS FAMILIES WITH CHILDREN AGED LESS THAN 15 YEARS	*CHILDREN IN FAMILIES WHERE THE MOTHER HAS LOW EDUCATIONAL ATTAINMENT
NSW	19.9%	12.0%	19.6%
MPHN	23.5%	13.2 %	25.0%
Berrigan	164 (24.3%)	89 (13.1%)	269 (18.6%)

Children aged less than 15 years living in families where the female parent's highest level of schooling was year 10 or below/ female parent did not attend school

ETHNICITY			
ABS 2018			
	AUSTRALIAN-BORN POPULATION	PEOPLE BORN (OVERSEAS) IN PREDOMINANTLY ENGLISH SPEAKING COUNTRIES	PEOPLE BORN IN PREDOMINANTLY NON-ENGLISH SPEAKING COUNTRIES
NSW	65.5%	6.7%	21.1%
MPHN	82.2%	3.2%	5.4%
Berrigan	6,864 (81.1%)	353 (4.2%)	302 (3.6%)

ETHNICITY			
ABS 2018			
	PEOPLE BORN IN A PREDOMINANTLY NON-ENGLISH SPEAKING (NES) COUNTRY RESIDENT IN AUSTRALIA FOR FIVE YEARS OR MORE	PEOPLE BORN IN A PREDOMINANTLY NON-ENGLISH SPEAKING (NES) COUNTRY RESIDENT IN AUSTRALIA FOR LESS THAN FIVE YEARS	PEOPLE BORN OVERSEAS REPORTING POOR PROFICIENCY IN ENGLISH
NSW	16.1%	4.1%	3.4%
MPHN	3.6%	1.4%	0.9%
Berrigan	93 (1.6%)	54 (0.9%)	7 (0.1%)

ETHNICITY			
ABS 2021			
COUNTRY	BERRIGAN	NSW	MPHN
China	**10 (>0.1%)**	(3.1%)	(0.2%)
India	**22 (0.3%)**	(1.9%)	(0.9%)
Italy	**9 (>0.1%)**	(0.7%)	(0.6%)
Vietnam	**0**	(1.1%)	(0.1%)
Philippines	**44 (0.2%)**	(1.2%)	(0.5%)
Malaysia	**21 (0.2%)**	(0.4%)	(0.1%)
Germany	**39 (0.5%)**	(0.4%)	(0.2%)
Greece	**0**	(0.4%)	(0.0%)
Sri Lanka	**15 (0.2%)**	(0.4%)	(0.1%)

DWELLINGS WITH NO MOTOR VEHICLE	
ABS 2016	
NSW	*9.2%*
MPHN	*5.4%*
Berrigan	**150 (4.6%)**

ABORIGINAL AND TORRES STRAIT ISLANDER PEOPLE

INDIGENOUS STATUS		
ERP 2020		
ABORIGINAL POPULATION AS PROPORTION OF TOTAL POPULATION		
	NUMBER	%
NSW	288,565	3.5
MPHN	15,408	5.8
Berrigan	**268**	**3.1**

INDIGENOUS STATUS								
ERP (NON-ABS) 2020								
	0-4 YEARS		5-9 YEARS		10-14 YEARS		15-19 YEARS	
	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%
NSW	35,878	12.4	32,475	11.3	30,562	10.6	27,034	9.4
MPHN	2,036	13.2	1,809	11.7	1,754	11.4	1,421	9.2
Berrigan	**31**	**11.8**	**28**	**10.3**	**36**	**13.6**	**27**	**10.1**

ERP (NON-ABS) 2020								
	20-24 YEARS		25-29 YEARS		30-34 YEARS		35-39 YEARS	
	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%
NSW	25,822	8.9	23,468	8.1	18,297	6.3	15,880	5.5
MPHN	1,330	8.6	1,127	7.3	981	6.4	852	5.5
Berrigan	**20**	**7.4**	**16**	**6.1**	**11**	**4.3**	**15**	**5.5**

ERP (NON-ABS) 2020								
	40-44 YEARS		45-49 YEARS		50-54 YEARS		55-59 YEARS	
	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%
NSW	13,315	4.6	14,480	5.0	13,599	4.7	11,881	4.1
MPHN	679	4.4	678	4.4	708	4.6	662	4.3
Berrigan	**11**	**4.1**	**11**	**3.9**	**21**	**8.0**	**9**	**3.3**

ERP (NON-ABS) 2020				
	60-64 YEARS		65+ YEARS	
	NUMBER	%	NUMBER	%
NSW	9,585	3.3	16,290	5.6
MPHN	486	3.2	885	5.7
Berrigan	**8**	**3.0**	**23**	**8.7**

VOCATIONAL EDUCATION		
ABS 2020		
PARTICIPATION IN VOCATIONAL EDUCATION AND TRAINING - ABORIGINAL POPULATION		
	NUMBER	ASR PER 1,000
NSW	50,250	17.8
MPHN	2,715	18.6
Berrigan	**38**	**15.8**

MOTHERS, BABIES AND CHILDREN

TOTAL FERTILITY RATE		
ABS 2020		
	BIRTHS	TOTAL FERTILITY RATE
NSW	*95,459*	*1.73*
MPHN	*2,949*	*2.26*
Berrigan	**87**	**2.23**

MOTHERS AND BABIES	
ABS 2017 TO 2019	
SMOKING DURING PREGNANCY	
	SMOKING DURING PREGNANCY (NUMBER PREGNANCIES)	% SMOKING DURING PREGNANCY
NSW	*25,876*	*9.0*
MPHN	*1,488*	*17.1*
Berrigan	**37**	**15.2**

IMMUNISATION						
ABS 2018						
	CHILDREN FULLY IMMUNISED AT 1 YEAR OF AGE		CHILDREN FULLY IMMUNISED AT 2 YEARS OF AGE		CHILDREN FULLY IMMUNISED AT 5 YEARS OF AGE	
	NUMBER	%	NUMBER	%	NUMBER	%
NSW	*90,965*	*94.0*	*90,512*	*90.2*	*97,477*	*94.6*
MPHN	*2,770*	*95.2*	*2,777*	*93.2*	*2,696*	*96.0*
Berrigan	**83**	**99.0**	**65**	**88.2**	**78**	**93.8**

CHILD CARE				
ABS 2016				
	UNPAID CHILD CARE TO OWN CHILD/ CHILDREN		UNPAID CHILD CARE TO OTHER CHILD/ CHILDREN	
	NUMBER	%	NUMBER	%
NSW	*1,194,612*	*19.6*	*423,262*	*6.9*
MPHN	*34,939*	*18.3*	*14,389*	*7.5*
Berrigan	**1,053**	**15.0**	**468**	**6.7**

RISK FACTORS CHILDREN

ABS 2020

	ESTIMATED NUMBER OF MALES AGED 2-17 YEARS WHO WERE OVERWEIGHT (BUT NOT OBESE) (MODELLED ESTIMATES)*		ESTIMATED NUMBER OF MALES AGED 2-17 YEARS WHO WERE OBESE (MODELLED ESTIMATES)*		ESTIMATED NUMBER OF FEMALES AGED 2-17 YEARS WHO WERE OVERWEIGHT (BUT NOT OBESE) (MODELLED ESTIMATES)*		ESTIMATED NUMBER OF FEMALES AGED 2-17 YEARS WHO WERE OBESE (MODELLED ESTIMATES)*	
	NUMBER	ASR PER 100	NUMBER	ASR PER 100	NUMBER	ASR PER 100	NUMBER	ASR PER 100
NSW	137,863	17.4	59,650	7.5	125,141	16.6	54,849	7.3
MPHN	4,889	18.8	2,866	11.1	4,423	17.7	2,668	10.7
Berrigan	133	16.2	91	11.1	123	16.1	85	11.1

VULNERABLE CHILDREN

AEDC 2021

	DEVELOPMENTALLY VULNERABLE ON ONE OR MORE DOMAINS		DEVELOPMENTALLY VULNERABLE ON TWO OR MORE DOMAINS	
	NUMBER	%	NUMBER	%
NSW	19,067	21.2	9,510	10.5
MPHN	647	23.5	336	12.2
Berrigan	33	36.7	13	14.4

AEDC 2021

	PHYSICAL HEALTH AND WELLBEING - DEVELOPMENTALLY VULNERABLE		PHYSICAL HEALTH AND WELLBEING - DEVELOPMENTALLY AT RISK		PHYSICAL HEALTH AND WELLBEING - DEVELOPMENTALLY ON TRACK	
	NUMBER	%	NUMBER	%	NUMBER	%
NSW	8,513	9.4	11,246	12.4	70,671	78.1
MPHN	278	10.1	314	11.4	2,168	78.5
Berrigan	17	18.9	11	12.2	62	68.9

AEDC 2021

	SOCIAL COMPETENCE - DEVELOPMENTALLY VULNERABLE		SOCIAL COMPETENCE - DEVELOPMENTALLY AT RISK		SOCIAL COMPETENCE - DEVELOPMENTALLY ON TRACK	
	NUMBER	%	NUMBER	%	NUMBER	%
NSW	8,458	9.4	13,175	14.6	68,789	76.1
MPHN	293	10.6	396	14.4	2,070	75.0
Berrigan	12	13.3	12	13.3	66	73.3

AEDC 2021

	EMOTIONAL MATURITY - DEVELOPMENTALLY VULNERABLE		EMOTIONAL MATURITY - DEVELOPMENTALLY AT RISK		EMOTIONAL MATURITY - DEVELOPMENTALLY ON TRACK	
	NUMBER	%	NUMBER	%	NUMBER	%
NSW	6,550	7.3	12,300	13.7	71,203	79.1
MPHN	235	8.5	424	15.4	2,093	76.1
Berrigan	13	14.6	15	16.9	61	68.5

VULNERABLE CHILDREN				
AEDC 2021				
	LANGUAGE AND COGNITIVE SKILLS (SCHOOLS-BASED) - DEVELOPMENTALLY AT RISK		LANGUAGE AND COGNITIVE SKILLS (SCHOOLS-BASED) - DEVELOPMENTALLY ON TRACK	
	NUMBER	%	NUMBER	%
NSW	*8,092*	*9.0*	*76,676*	*84.9*
MPHN	*271*	*9.8*	*2,256*	*81.8*
Berrigan	**7**	**7.8**	**74**	**82.2**

AEDC 2021				
	COMMUNICATION SKILLS AND GENERAL KNOWLEDGE - DEVELOPMENTALLY AT RISK		CHILDREN DEVELOPMENTALLY ON TRACK IN COMMUNICATION DOMAIN	
	NUMBER	%	NUMBER	%
NSW	*14,068*	*15.6*	*68,741*	*76.0*
MPHN	*377*	*13.6*	*2,148*	*77.8*
Berrigan	**20**	**22.2**	**64**	**71.1**

HPV				
2021				
	HPV VACCINE COVERAGE: FEMALES AGED 12-13 YEARS IN MID-2013, WHO RECEIVED DOSE 3 BY 2016		HPV VACCINE COVERAGE: MALES AGED 12-13 YEARS IN MID-2013, WHO RECEIVED DOSE 3 BY 2016	
	NUMBER	%	NUMBER	%
NSW	*36,127*	*83.0*	*35,834*	*78.2*
MPHN	*1,342*	*87.4*	*1,313*	*86.2*
Berrigan	**44**	**81.8**	**47**	**87.6**

OLDER PEOPLE

OLDER PERSONS				
ABS 2016				
	LIVING ALONE, 65+ YEARS		LIVING ALONE; WITH DISABILITY; LOW INCOME, 65+ YEARS	
	NUMBER	%	NUMBER	%
NSW	275,196	24.4	29,883	2.6
MPHN	11,625	25.0	1,088	2.3
Berrigan	**596**	**28.3**	**46**	**2.2**
ABS 2016				
	LIVING ALONE, 85+ YEARS		LIVING ALONE; WITH DISABILITY; LOW INCOME, 85+ YEARS	
	NUMBER	%	NUMBER	%
NSW	52,065	41.8	3,677	2.9
MPHN	11,625	33.2	85	1.3
Berrigan	**596**	**49.5**	**5**	**2.3**

OLDER PERSONS				
ABS 2016				
	PEOPLE WITH A PROFOUND OR SEVERE DISABILITY AND LIVING IN THE COMMUNITY, 65+ YEARS		MODELLED ESTIMATES OF PERSONS WITH ONE OR MORE ACTIVITIES FOR WHICH ASSISTANCE IS NEEDED, 65+ YEARS	
	NUMBER	%	NUMBER	ASR PER 100
NSW	170,636	14.9	414,338	36.7
MPHN	5,293	12.3	15,435	35.4
Berrigan	**237**	**11.4**	**744**	**35.5**

OLDER PERSONS				
ABS 2018				
	PEOPLE WITH MODERATE OR MILD CORE ACTIVITY LIMITATION, 65+ YEARS - MODELLED ESTIMATES		PEOPLE WITH SEVERE CORE ACTIVITY LIMITATION, 65+ YEARS — MODELLED ESTIMATES	
	NUMBER	%	NUMBER	ASR PER 100
NSW	234,212	29.5	98,912	11.8
MPHN	15,650	33.6	6,101	13.0
Berrigan	**781**	**31.9**	**201**	**10.3**

POPULATION HEALTH
MORTALITY

MEDIAN AGE OF DEATH				
ABS 2016 TO 2020				
	MALES		FEMALES	
	NUMBER OF DEATHS	MEDIAN AGE (YEARS)	NUMBER OF DEATHS	MEDIAN AGE (YEARS)
NSW	*138,921*	*79.0*	*129,720*	*85.0*
MPHN	*5,976*	*78.0*	*5,161*	*84.0*
Berrigan	**273**	**80.0**	**190**	**85.5**

'Premature mortality' refers to deaths that occur at an age earlier than a selected cut-off. For this analysis, deaths among people aged under 75 are considered premature.

PREMATURE DEATHS				
ABS 2016 TO 2020				
	MALES		FEMALES	
	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000
NSW	*54,579*	*292.0*	*33,272*	*178.1*
MPHN	*2,426*	*370.3*	*1,291*	*205.8*
Berrigan	**103**	**438.6**	**42**	**187.0**

PREMATURE DEATHS BY CAUSE					
ABS 2016 TO 2020					
	DEATHS FROM CANCER, 0 TO 74 YEARS		DEATHS FROM LUNG CANCER, 0 TO 74 YEARS		DEATHS FROM BREAST CANCER (FEMALES), 0 TO 74 YEARS
	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000
NSW	*36,591*	*97.7*	*7,425*	*19.8*	*2,757*	*14.8*
MPHN	*1,451*	*110.1*	*265*	*19.8*	*104*	*16.7*
Berrigan	**60**	**122.9**	**15**	**29.5**	**NR**	**–**

ABS 2016 TO 2020							
	DEATHS FROM CIRCULATORY SYSTEM DISEASES, 0 TO 74 YEARS		DEATHS FROM ISCHAEMIC HEART DISEASE, 0 TO 74 YEARS		DEATHS FROM RESPIRATORY SYSTEM DISEASES, 0 TO 74 YEARS		DEATHS FROM EXTERNAL CAUSES, 0 TO 74 YEARS
	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000
NSW	*15,586*	*41.7*	*7,338*	*19.6*	*6,259*	*16.7*	*10,092*	*27.2*
MPHN	*680*	*52.0*	*340*	*26.1*	*305*	*22.7*	*451*	*41.1*
Berrigan	**31**	**64.4**	**19**	**39.5**	**9**	**17.5**	**14**	**44.4**

AVOIDABLE DEATHS BY CAUSE

ABS 2016 TO 2020

	DEATHS FROM SELECTED EXTERNAL CAUSES OF MORTALITY (FALLS; FIRES, BURNS; SUICIDE AND SELF-INFLICTED INJURIES; ETC.) AGED 0 TO 74 YEARS		DEATHS FROM SUICIDE AND SELF-INFLICTED INJURIES AGED 0 TO 74 YEARS		DEATHS FROM OTHER EXTERNAL CAUSES OF MORTALITY (TRANSPORT ACCIDENTS; ACCIDENTAL DROWNING AND SUBMERSION; ETC.) AGED 0 TO 74 YEARS		DEATHS FROM TRANSPORT ACCIDENTS AGED 0 TO 74 YEARS	
	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000
NSW	4,738	12.8	4,115	11.1	5,354	14.5	1,678	4.5
MPHN	215	19.4	192	17.9	236	21.7	115	10.5
Berrigan	NW*	15.5	NW*	16.8	NW*	29.3	NW*	–

NW = number withheld due to small sample size causing issues with identification/anonymity.

ABS 2016 TO 2020

	DEATHS FROM CANCER, 0 TO 74 YEARS		DEATHS FROM COLORECTAL CANCER, 0 TO 74 YEARS		DEATHS FROM BREAST CANCER (FEMALES), 0 TO 74 YEARS	
	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000
NSW	10,601	28.3	3,878	10.4	2,757	14.8
MPHN	458	35.1	163	12.5	104	16.7
Berrigan	18	37.8	6	12.5	#	–

ABS 2016 TO 2020

	DEATHS FROM DIABETES, 0 TO 74 YEARS		DEATHS FROM CIRCULATORY SYSTEM DISEASES, 0 TO 74 YEARS		DEATHS FROM ISCHAEMIC HEART DISEASE, 0 TO 74 YEARS		DEATHS FROM CEREBROVASCULAR DISEASES, 0 TO 74 YEARS	
	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000
NSW	2,638	7.0	12,557	33.6	7,338	19.6	3,044	8.1
MPHN	118	9.0	557	42.4	340	26.1	110	8.3
Berrigan	#	–	27	55.7	19	39.5	5	10.2

Potentially avoidable deaths, a subset of all premature mortality (deaths under 75 years), and include deaths considered to be potentially preventable (those amenable to screening and primary prevention) and potentially treatable (those amenable to therapeutic interventions).

AVOIDABLE DEATHS BY CAUSE

ABS 2016 TO 2020

	DEATHS FROM RESPIRATORY SYSTEM DISEASES, 0 TO 74 YEARS		DEATHS FROM CHRONIC OBSTRUCTIVE PULMONARY DISEASE, 0 TO 74 YEARS	
	NUMBER OF DEATHS	ASR PER 100,000	NUMBER OF DEATHS	ASR PER 100,000
NSW	4,128	11.0	3,833	10.2
MPHN	217	16.0	195	14.2
Berrigan	6	11.5	6	11.3

HEALTH CONDITIONS

HEALTH CONDITIONS								
ABS 2017 TO 2018								
	ESTIMATED NUMBER OF PEOPLE WITH RESPIRATORY SYSTEM DISEASES		ESTIMATED NUMBER OF PEOPLE WITH ASTHMA		ESTIMATED NUMBER OF PEOPLE WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE		ESTIMATED NUMBER OF PEOPLE WITH MENTAL AND BEHAVIOURAL PROBLEMS	
	NUMBER	ASR PER 100	NUMBER	ASR PER 100	NUMBER	ASR PER 100	NUMBER	ASR PER 100
NSW	1,465,620	18.8	827,910	10.6	175,425	2.2	813,094	20.9
MPHN	47,533	20.0	31,355	13.0	6,690	2.5	25,718	21.8
Berrigan	**1,628**	**18.9**	**1,136**	**12.9**	**253**	**2.2**	**872**	**20.5**

ABS 2017 TO 2018						
	ESTIMATED NUMBER OF PEOPLE WITH HEART, STROKE AND VASCULAR DISEASE		ESTIMATED NUMBER OF PEOPLE WITH ARTHRITIS		ESTIMATED NUMBER OF PEOPLE WITH OSTEOPOROSIS	
	NUMBER	ASR PER 100	NUMBER	ASR PER 100	NUMBER	ASR PER 100
NSW	385,093	4.9	1,216,498	15.5	334,562	4.2
MPHN	15,044	5.3	52,723	19.2	10,262	3.6
Berrigan	**693**	**5.2**	**2,247**	**18.2**	**424**	**3.2**

CANCER INCIDENCE					
NSW CANCER REGISTRY 2014 TO 2018					
	PROSTATE CANCER DSER PER 100,000	BREAST CANCER DSER PER 100,000	BOWEL CANCER DSER PER 100,000	LUNG CANCER DSER PER 100,000	MELANOMA DSER PER 100,000
NSW	70.8	63.3	37.6	43.1	52.9
MPHN	79.4	65.9	38.8	46.0	56.0
Berrigan	**59.2**	**64.2**	**32.7**	**47.6**	**47.0**

MENTAL HEALTH PREVALENCE

ABS 2021

	PEOPLE AGED 15 YEARS AND OVER WHO REPORTED THEY HAD A MENTAL HEALTH CONDITION (INCLUDING DEPRESSION OR ANXIETY)		PEOPLE AGED 0-14 YEARS WHO REPORTED THEY HAD A MENTAL HEALTH CONDITION (INCLUDING DEPRESSION OR ANXIETY)	
	NUMBER	ASR PER 100	NUMBER	ASR PER 100
NSW	*617,947*	*9.4*	*28,463*	*1.9*
MPHN	*21,873*	*11.0*	*1,140*	*2.4*
Berrigan	**837**	**12.0**	**31**	**2.3**

AIHW 2017 TO 2018

	ESTIMATED NUMBER OF MALES AGED 18 YEARS AND OVER WITH HIGH OR VERY HIGH PSYCHOLOGICAL DISTRESS, BASED ON THE KESSLER 10 SCALE (K10) (MODELLED ESTIMATES)		ESTIMATED NUMBER OF FEMALES AGED 18 YEARS AND OVER WITH HIGH OR VERY HIGH PSYCHOLOGICAL DISTRESS, BASED ON THE KESSLER 10 SCALE (K10) (MODELLED ESTIMATES)	
	NUMBER	ASR PER 100	NUMBER	ASR PER 100
NSW	*321,815*	*10.8*	*427,731*	*14.0*
MPHN	*9,217*	*10.3*	*11,852*	*13.1*
Berrigan	**341**	**10.3**	**424**	**13.0**

AIHW 2017 TO 2018

	EMERGENCY DEPARTMENT PRESENTATIONS: TOTAL PRESENTATIONS FOR MENTAL AND BEHAVIOURAL DISORDERS		ADMISSIONS FOR MENTAL HEALTH RELATED CONDITIONS, PERSONS - ALL HOSPITALS	
	NUMBER	ASR PER 100	NUMBER	ASR PER 100
NSW	*103,101*	*1,283.8*	*2,601*	*1,077.9*
MPHN	*12,626*	*5,428.7*	*89*	*1,002.2*
Berrigan	**290**	**3,668.8**	**60**	**1,025.2**

DISABILITY

ABS 2016

	UNPAID ASSISTANCE TO PERSONS WITH A DISABILITY		PEOPLE WITH A PROFOUND OR SEVERE DISABILITY (INCLUDES PEOPLE IN LONG-TERM ACCOMMODATION), ALL AGES		PEOPLE WITH A PROFOUND OR SEVERE DISABILITY AND LIVING IN THE COMMUNITY, ALL AGES	
	NUMBER	%	NUMBER	%	NUMBER	%
NSW	*709,415*	*11.6*	*398,746*	*5.6*	*346,451*	*4.9*
MPHN	*22,985*	*12.0*	*12,717*	*5.7*	*10,906*	*4.9*
Berrigan	**834**	**11.9**	**523**	**6.9**	**428**	**5.7**

SELF ASSESSED HEALTH

ABS 2017 TO 2018

	ESTIMATED NUMBER OF PEOPLE AGED 15 YEARS AND OVER WITH FAIR OR POOR SELF-ASSESSED HEALTH	
	NUMBER	ASR PER 100
NSW	*897,768*	*14.1*
MPHN	*31,578*	*15.3*
Berrigan	**1,371**	**16.2**

CANCER SCREENING						
NSW CANCER COUNCIL 2017 TO 2018						
	BREAST SCREENING RATE WOMEN 50 - 69 YEARS		CERVICAL SCREENING WOMEN 20 - 69 YEARS		BOWEL SCREENING PEOPLE 50 - 74 YEARS	
	NUMBER	%	NUMBER	%	NUMBER	%
NSW	900,743	52.8	2,204,749	55.3	512,013	38.3
MPHN	30,300	53.8	63,082	52.3	18,684	40.7
Berrigan	1,276	41.1	2,107	49.3	827	43.4

HEALTH BEHAVIOURS

RISK FACTORS						
ABS 2017 TO 2018						
	ESTIMATED POPULATION, AGED 18 YEARS AND OVER, WHO UNDERTOOK LOW, VERY LOW OR NO EXERCISE IN THE PREVIOUS WEEK (MODELLED ESTIMATES)		ESTIMATED NUMBER OF PEOPLE AGED 18 YEARS AND OVER WITH ADEQUATE FRUIT INTAKE (MODELLED ESTIMATES)		ESTIMATED NUMBER OF PEOPLE AGED 18 YEARS AND OVER WHO HAD HIGH BLOOD PRESSURE	
	NUMBER	ASR PER 100	NUMBER	ASR PER 100	NUMBER	ASR PER 100
NSW	900,743	65.3	2,204,749	55.3	512,013	38.3
MPHN	30,300	70.2	63,082	52.3	18,684	40.7
Berrigan	1,276	41.1	2,107	49.3	827	43.4

ABS 2017 TO 2018								
	ESTIMATED NUMBER OF MALES AGED 18 YEARS AND OVER WHO WERE OVERWEIGHT (BUT NOT OBESE)		ESTIMATED NUMBER OF MALES AGED 18 YEARS AND OVER WHO WERE OBESE		ESTIMATED NUMBER OF FEMALES AGED 18 YEARS AND OVER WHO WERE OVERWEIGHT (BUT NOT OBESE)		ESTIMATED NUMBER OF FEMALES AGED 18 YEARS AND OVER WHO WERE OBESE	
	NUMBER	ASR PER 100	NUMBER	ASR PER 100	NUMBER	ASR PER 100	NUMBER	ASR PER 100
NSW	1,226,016	41.1	952,093	32.1	890,104	29.0	917,643	29.9
MPHN	38,354	42.5	34,877	37.4	27,538	29.6	33,267	34.9
Berrigan	1,499	43.6	1,299	35.7	1,056	29.9	1,215	32.7

ABS 2017 TO 2018				
	ESTIMATED NUMBER OF MALES AGED 18 YEARS AND OVER WHO WERE CURRENT SMOKERS (MODELLED ESTIMATES)		ESTIMATED NUMBER OF FEMALES AGED 18 YEARS AND OVER WHO WERE CURRENT SMOKERS (MODELLED ESTIMATES)	
	NUMBER	ASR PER 100	NUMBER	ASR PER 100
NSW	511,157	17.2	355,337	11.7
MPHN	18,807	21.9	12,499	14.1
Berrigan	661	22.0	438	13.9

ABS 2017 TO 2018				
	ESTIMATED NUMBER OF MALES AGED 18 YEARS AND OVER WHO CONSUMED MORE THAN TWO STANDARD ALCOHOLIC DRINKS PER DAY ON AVERAGE (MODELLED ESTIMATES)		ESTIMATED NUMBER OF FEMALES AGED 18 YEARS AND OVER WHO CONSUMED MORE THAN TWO STANDARD ALCOHOLIC DRINKS PER DAY ON AVERAGE (MODELLED ESTIMATES)	
	NUMBER	ASR PER 100	NUMBER	ASR PER 100
NSW	676,575	22.7	258,306	8.5
MPHN	27,133	29.7	10,222	11.1
Berrigan	1,057	30.2	373	10.8

CRIME STATISTICS		
BOSCAR 2021		
	SEXUAL ASSAULT ASR PER 100,000	DOMESTIC ASSAULT ASR PER 100,000	LIQUOR OFFENCES ASR PER 100,000
NSW	*81.1*	*382.1*	*106.9*
MPHN	*100.8*	*429.2*	*197.1*
Berrigan	**98.3**	**260.3**	**160.3**

CRIME STATISTICS				
BOSCAR 2021				
USE/POSSESS				
	COCAINE ASR PER 100,000	AMPHETAMINES ASR PER 100,000	ECSTASY ASR PER 100,000	CANNABIS ASR PER 100,000	NARCOTICS ASR PER 100,000
NSW	*27.9*	*92.2*	*25.2*	*217.7*	*14.2*
MPHN	*16.0*	*96.7*	*17.2*	*257.5*	*2.3*
Berrigan	**43.0**	**82.5**	**91.8**	**294.4**	**NR**

TECHNICAL NOTES
MPHN LGA DATA PRIORITISATION TOOL

MPHN's Data Prioritisation Tool applies a score based on the LGA result in relation to the state average and Murrumbidgee average results.

A score of zero to four is applied based on the difference between the LGA proportion or Age Standardised Rate (ASR) (see page 24 for explanation) result compared to the NSW average score.

Within the list of LGA scores, a score of one is given to the LGAs with either a higher or lower score than the average for the Murrumbidgee region.

The two scores are summed to give a total score.

To highlight the impacts, colour coding is applied to the range of 0 – 5 totals of both the NSW and Murrumbidgee averages combined.

MPHN's LGA Data Prioritisation Tool is also applied to socio-demographic variables such as age, gender etc.

MATRIX SCORING SYSTEM COMPARED TO THE NSW AVERAGE			
PROPORTION	ASR (TWO DIGIT RESPONSE)	ASR (THREE DIGIT RESPONSE)	SCORE
Less than 0 or negative score	Less than 0 or negative score	Less than 0 or negative score	0
0 and 10%	0 -10	0 - 100	1
10.1% - 29.9%	11 – 30	101-300	2
30% - 49.9%	31 – 50	301 – 500	3
>50%	51 +	501 +	4
Higher or lower than Murrumbidgee average dependent on orientation of response (positive or negative)			
all values above/below average			1

IMPACT SCORE	
0	LOW impact
1	
2	
3	
4	
5	HIGH impact

The following notes provide a definition for terms used in this report that may not be familiar to readers.

SOCIO-ECONOMIC INDEXES FOR AREAS (SEIFA)

The SEIFA score in this report is an index score that allows geographical ranking in Australia. The score measures socio-economic advantage and disadvantage, information is obtained from the five-yearly Australian Census.

SEIFA is a group of four indexes, which are used to rank areas broadly by their level of advantage or disadvantage. It consists of four measures:

• Index of Relative Socio-Economic Advantage-Disadvantage

• Index of Relative Socio-Economic Disadvantage

• Index of Education and Occupation

• Index of Economic Resources

Some examples of variables that are measured and form the indexes are (this is limited, there are more variables that are considered):

• Percentage of low-income households

• Unemployment rate

• Percentage of low-skilled occupations and people without qualifications

• Percentage of households without a car

• Percentage of people living overcrowded dwellings

• Percentage of people under 70 with a disability

• Percentage of children with jobless parents

• Percentage of people with poor English proficiency

SEIFA scores are expressed on a scale where lower numbers always mean more disadvantage and less advantage, while higher numbers mean less disadvantage and more advantage. They are standardised so that the average for Australia is always close to 1,000.

AGE STANDARDISED RATE (ASR)

A method of adjusting the crude rate to eliminate the effect of differences in population age structures when comparing crude rates for different periods of time, different geographic areas and/or different population sub-groups (e.g. between one year and the next and/or States and Territories, Indigenous and non-Indigenous populations).

Adjustments are usually undertaken for each of the comparison populations against a standard population (rather than adjusting one comparison population to resemble another). Sometimes a comparison population is referred to as a study population.

ASRs are usually used for valid comparisons of rates in different populations, such as incidence rates, prevalence rates, mortality rates and health service utilisation rates.

An example of why they are used is because the numbers of deaths per 100,000 population are influenced by the age distribution of the population. Two populations with the same age-specific mortality rates for a cause of death will have different overall death rates if the age distributions of their populations are different. Age standardized mortality rates adjust for differences in population age distribution by applying the observed age-specific mortality rates for each population to a standard population. The age-standardised mortality rate is a weighted average of the age-specific mortality rates per 100,000 persons, where the weights are the proportions of persons in the corresponding age groups of the standard population.