

## **SUPPORT FOR WATER FLUORIDATION IN NEW SOUTH WALES, JUNE 2011 UPDATE**

### **BACKGROUND**

Since 2004 NSW Health, in conjunction with the Local Area Health Services and Local Governments Areas (LGAs), have been proactive in developing strategies to promote water fluoridation to rural communities in NSW to reduce inequalities in oral health. Extending water fluoridation to rural communities would improve oral health, and in turn general health, and reduce health care costs.

This proactive approach to water fluoridation has resulted in 16 Councils implementing fluoridation with population coverage of water fluoridation increasing from approximately 90 per cent in 2004 to approximately 95 per cent currently. When the remaining 19 Councils complete fluoridation some 98 per cent of NSW residents will have access to fluoridated water.

### **EVIDENCE ON SUPPORT FOR WATER FLUORIDATION IN NSW**

In NSW there is now contemporary evidence on support for water fluoridation collected through NSW Health and independent organisations including the Western Research Institute and the University of Sydney. Overall support for water fluoridation among NSW residents is high, exceeding 80% of the surveyed residents.

Through its Population Health Survey, NSW Health has collected data on community support and attitude to fluoridation on a random sample of NSW residents from 2005-2008.

NSW Health conducted a further survey on community attitudes and support for water fluoridation commencing in late 2010 on targeted local government areas based on the same questions that were asked during 2005-2008 survey period. The rationale for targeting these local government areas was to over-sample these areas, some with very small population, to achieve a robust sample size to provide a stronger evidence base for fluoridation.

## **KEY FINDINGS FROM THE NSW RURAL AND REMOTE COMMUNITY WATER FLUORIDATION SURVEY 2011 (SEE APPENDIX 1 FOR DETAILED REPORT)**

Among adults aged 16 years and over in the 12 rural/remote LGAs surveyed:

- 70.0% of adults agreed with or in favour of adding fluoride to their water supply to prevent tooth decay, with 74.4% in people aged 16-44 years, 63.1% in people aged 45-64 years, and 73.6% in people aged 65 years and over. The proportions for agreeing with water fluoridation were similar among male adults and female adults.
- The proportions of adults agreeing water fluoridation varied only slightly in subgroups of whether they had any natural teeth missing (from 65.85% to 70.3%), or subgroups of time since last visit a dental professional (from 66.4% to 77.3%), or of subgroups of highest qualification (from 68.5% to 77.6%). The range of proportions of adults agreeing with water fluoridation for subgroups of household income levels is 58.3% to 76.9%.
- The proportions for agreeing with water fluoridation for Balranald LGA was the lowest 33.9%, while the proportions for the other 11 LGAs range from 51.4% to 81.4%.

## **RESULTS FROM PREVIOUS SURVEYS**

### **NSW POPULATION HEALTH SURVEY- 2005-2008 (NSW Health Department 2009)**

NSW Health Population Survey is an ongoing telephone survey of state residents conducted to monitor changes over time in self-reported health behaviours, health status, health service use, satisfaction with health services, and other factors that influence health. It collects data from approximately 12,000 residents annually.

From 2005-2008 questions on community support and attitude to water fluoridation were added to the NSW Population Health Survey.

### **Key findings from the NSW Population Health Survey - 2005-2008**

- In 2008, 87.4 per cent of adults agreed with having their public water supply fluoridated.
- In rural health areas, fewer respondents (81.8 per cent) compared with respondents from urban health areas (89.9 per cent) agreed with having their public water supply fluoridated.
- Since 2005, there has been no significant change in the proportion of adults who agreed with having their public water supply fluoridated.

## **WESTERN RESEARCH INSTITUTE SURVEYS – 2005-2009**

An independent rural, research organization, the Western Research Institute (WRI), in NSW, was commissioned to conduct structured household surveys on randomly selected households in some rural local government areas to assess community support for fluoridating their local water supplies.

### **Lithgow Local Government Area**

The survey on a random sample of households in the Lithgow Local Government Area to gauge community support for water fluoridation (WRI, 2007) reported that:

- Overall the majority of respondents surveyed (76%) were in favour of adding fluoride to their water supply, while 17% were not in favour of fluoridation and 7% were unsure.

### **Local Government Areas Supplied by Rous Water**

Northern NSW Oral Health Network commissioned the Western Research Institute to conduct a survey to assess community attitudes towards fluoridation of the public water supply in the LGAs supplied by Rous Water. Structured household surveys were used to collect data from randomly selected households in the townships across Ballina, Byron, Lismore City and Richmond Valley Shires (WRI 2006).

- The majority of respondents (62%) were in favour of having the public water supply fluoridated. Of the remaining respondents, 22% were not in favour of fluoridation and 16% were unsure.

### **Mid Western Regional Council**

Structured household surveys on randomly selected households in Mudgee and Gulgong conducted by WRI to assess community support for fluoridating the water supply reported that:

- Fifty four per cent of respondents in Mudgee and Gulgong wanted their water supplies fluoridated, 25 per cent did not, and the remaining 21 per cent were unsure (WRI, 2005, Sivaneswaran and Chong 2011).

### **Warrumbungle Shire Local Government Area.**

A survey to estimate the proportion of residents in the Warrumbungle LGAs that want their water supplies fluoridated reported that:

- The majority of households surveyed (64%) were in favour of adding fluoride to the public water supply, just under one in five households (18%) were undecided while 18% were against fluoridation (WRI 2009)

## UNIVERSITY OF SYDNEY SURVEY

The University of Sydney (Arora et al 2010) conducted a survey to determine the level of support for water fluoridation among parents of primary school children in Lithgow and on the socio-demographic and oral health factors that may have influenced this. The study reported that

- Seventy per cent of the responding parents supported water fluoridation.
- Support was significantly higher among those from a higher socio-economic background.

## REFERENCES

Centre for Epidemiology and Research. *2008 Report on Adult Health from the New South Wales Population Health Survey*. Sydney: NSW Department of Health, 2009.

Western Research Institute (2007): Household Fluoridation Survey: Lithgow Shire. Western Research Institute, Bathurst. Charles Sturt University

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Western Research Institute (2006): *Fluoridation survey of Mudgee and Gulgong townships. Prepared for the Mid-Western Regional Council*. Report to Works Committee Meeting - 1 June 2005. Bathurst: Western Research Institute, Charles Sturt University

Sivaneswaran and Chong (2001) Investing in Professional Advocacy: A Case Study on a successful Fluoridation Campaign in Rural New South Wales, Australia. *Community Dental Health*. Accepted 1 April 2010

Western Research Institute (2009) Household Fluoridation Survey: Warrumbungle Shire. Western Research Institute, Charles Sturt University

A. Arora, RW Evans, S Sivaneswaran, AN Sujeer, AS Blinkhorn (2010) Parental support for water fluoridation in Lithgow, New South Wales. *Australian Dental Journal* 2010; 55: 417–422

# APPENDIX 1

## *NSW Rural and Remote Community Water Fluoridation Survey 2011*

Prepared by NSW Health Survey Program

28 June 2011



## Introduction

The *NSW Rural and Remote Community Water Fluoridation Survey 2011* provides additional evidence regarding the level of support for water fluoridation in unfluoridated rural/remote communities in New South Wales.

## Survey Instrument

The survey instrument for the fluoridation survey consisted of mainly existing survey questions relating to fluoridation and oral health in the NSW Population Health Survey (Appendix A).

## Survey sampling

The analysis included a total sample of 1731 adults aged 16 years and above from 12 rural/remote Local Government Areas (LGAs) in NSW, with approximately 150 respondents from each LGA. 6 surveys were excluded due to missing values on any data items needed for weighting (age, sex, LGA). The 12 LGAs are: Byron Shire, Gunnedah Shire, Corowa Shire, Upper Hunter Shire, Walgett Shire, Tenterfield Shire, Upper Lachlan, Guyra Shire, Brewarrina Shire, Balranald Shire and Carrathool.

The sampling frame was developed as follows: The ExchangeInfo data, including the digital telephone exchange areas, was mapped to the digital LGA boundary file published by Australian Bureau of Statistics, so each telephone exchange area is allocated to a LGA. Then the telephone prefix for the telephone exchange area was expanded to produce all possible telephone numbers for each prefix. A random sample of necessary number of phone numbers was then selected from each LGA, and called to achieve a total of 1737 complete interviews between October 2010 and March 2011.

The sample size for the LGAs were: 120 for Balranald, 105 for Brewarrina, 152 for Byron, 150 for Carrathool, 151 for Corowa Shire, 155 for Gunnedah, 150 for Guyra, 150 for Gwydir, 150 for Tenterfield, 149 for Upper Hunter Shire, 149 for Upper Lachlan Shire, and 150 for Walgett. The participation rate is 70.0% (the number of complete surveys divided by the total number of complete surveys and number of refusals).

## Data analysis

For analysis, the survey sample was weighted to adjust for differences in the probabilities of selection among respondents. These differences were due to the varying number of people living in each household, the number of residential telephone connections for the household, and the varying sampling fraction in each LGA.

Post-stratification weights were used to reduce the effect of differing non-response rates among males and females and different age groups on the survey estimates. These weights were adjusted for differences between the age and sex structure of the survey sample and the NSW Health 2010 mid-year population estimates projections based on the latest ABS population data. This enables calculation of prevalence estimates for the 12 LGA populations rather than for the respondents selected. Prevalence estimates were based on the weighted data. Six interviews could not be weighted due to missing information on weighting related data items and were excluded from the analysis. Interviews with missing values on the data item under analysis were also excluded in the analysis.

Call and interview data were analysed using SAS version 9.2. The SURVEYFREQ procedure in SAS was used to analyse the data and calculate point estimates and 95 per cent confidence intervals for the estimates. The procedure uses the Taylor expansion method to estimate sampling errors of estimators, based on the stratified random sample. The 95 per cent confidence interval provides a range of values that should contain the actual value 95 per cent of the time.

**Special caution needs to be taken when interpreting the point estimate due to the small sample size for each LGA, and for subgroups with small sample size. Point estimates need to be interpreted along with the 95% confidence intervals. Where sample sizes are less than 5, estimates are not considered to be reliable.**

A summary of key findings for the 12 LGAs is provided in this report, followed by the overall results for the 12 LGAs surveyed are presented in section one. The results for individual LGAs are presented in section two. The content of the report includes:

1. For all LGAs sampled
  - Agreement with fluoridation by :
    - Age
    - Sex
    - Any teeth missing
    - Time since last dental visit
    - Highest qualification completed
    - Household income
2. For each Local Government Area
  - Overall agreement with fluoridation
  - Water source
  - Agreement with water fluoridation of those people on public water supply
  - All natural teeth missing
  - Any natural teeth missing
  - Who should decide on fluoridation



## Key Findings

Among adults aged 16 years and over in the 12 rural/remote LGAs surveyed:

- 70.0% of adults agreed with or in favour of adding fluoride to their water supply to try and prevent teeth decaying, with 74.4% in people aged 16-44 years, 63.1% in people aged 45-64 years, and 73.6% in people aged 65 years and over. The proportions for agreeing with water fluoridation were similar among male adults and female adults.
- The proportions of adults agreeing with water fluoridation varied only slightly in subgroups of;
  - any natural teeth missing (from 65.85% to 70.3% );
  - time since last visit a dental professional (from 66.4% to 77.3%);
  - highest qualification (from 68.5% to 77.6%), and;

Greater variation in the proportion of adults agreeing with water fluoridation was seen in relation to household income levels (from 58.3% to 76.9%).

- The proportion of those surveyed agreeing with water fluoridation for Balranald LGA was the lowest 33.9%, while the proportions for the other 11 LGAs range from 51.4% to 81.4% (detail see Section 2).

## Section One

### Overall Results for Rural/Remote LGAs

### Agree with fluoridation by age (12 LGAs)

Age	Agree	Percent	95% Confidence for Percent	
16-44 yrs	Yes	74.4	67.4	81.3
	No	25.6	18.7	32.6
	Total	100		
45-64 yrs	Yes	63.1	57.4	68.9
	No	36.9	31.1	42.6
	Total	100		
65+ yrs	Yes	73.6	68.5	78.8
	No	26.4	21.2	31.5
	Total	100		
Total	Yes	70.0	66.2	73.8
	No	30.0	26.2	33.8
	Total	100		

### Agree with fluoridation by sex (12 LGAs)

Sex	Agree	Percent	95% Confidence for Percent	
Male	Yes	70.8	64.7	77.0
	No	29.2	23.0	35.3
	Total	100		
Female	Yes	69.2	64.6	73.7
	No	30.8	26.3	35.4
	Total	100		
Total	Yes	70.0	66.2	73.8
	No	30.0	26.2	33.8
	Total	100		

### Agree with fluoridation by any teeth missing (12 LGAs)

Teeth Miss	Agree	Percent	95% Confidence for Percent	
Yes	Yes	65.8	56.4	75.2
	No	34.2	24.8	43.6
	Total	100		
No	Yes	70.3	66.3	74.3
	No	29.7	25.7	33.7
	Total	100		
Total	Yes	70.0	66.2	73.8
	No	30.0	26.2	33.8
	Total	100		

### Agree with fluoridation by time since last dental visit (12 LGAs)

Time Since Last Dental Visit	Agree	Percent	95% Confidence for Percent	
Less than 12 months ago	Yes	66.4	60.7	72.1
	No	33.6	27.9	39.3
	Total	100		
1 year to less than 2 years ago	Yes	77.3	70.5	84.0
	No	22.7	16.0	29.5
	Total	100		
2 to less than 5 years ago	Yes	71.1	62.8	79.3
	No	28.9	20.7	37.2
	Total	100		
5 to less than 10 years ago	Yes	72.0	57.5	86.4
	No	28.0	13.6	42.5
	Total	100		
10 years ago or more	Yes	78.1	67.0	89.1
	No	21.9	10.9	33.0
	Total	100		
Never	Yes	69.9	11.6	100.0
	No	30.1	0.0	88.4
	Total	100		
Total	Yes	69.9	66.1	73.7
	No	30.1	26.3	33.9
	Total	100		

### Agree with fluoridation by highest qualification (12 LGAs)

Highest Qualification	Agree	Percent	95% Confidence for Percent	
Completed School Certificate/ Intermediate/ Year 10/4th Form....	Yes	68.5	61.4	75.6
	No	31.5	24.4	38.6
	Total	100		
Completed HSC/Leaving/Year 12/ 6th Form	Yes	77.6	69.5	85.7
	No	22.4	14.3	30.5
	Total	100		
TAFE Certificate or Diploma	Yes	67.9	60.1	75.8
	No	32.1	24.2	39.9
	Total	100		
University, CAE or some other tertiary institute degree or higher	Yes	71.5	63.5	79.6
	No	28.5	20.4	36.5
	Total	100		
Other (Specify)	Yes	76.3	58.6	93.9
	No	23.7	6.1	41.4
	Total	100		
Completed primary school	Yes	71.3	50.8	91.8
	No	28.7	8.2	49.2
	Total	100		
Completed years 7-9	Yes	71.4	58.7	84.1
	No	28.6	15.9	41.3
	Total	100		
Total	Yes	71.0	67.4	74.7
	No	29.0	25.3	32.6
	Total	100		

### Agree with fluoridation by household income (12 LGAs)

Household Income	Agree	Percent	95% Confidence for Percent	
less than \$20,000	Yes	65.4	56.3	74.5
	No	34.6	25.5	43.7
	Total	100		
\$20,000-\$40,000	Yes	74.7	67.6	81.9
	No	25.3	18.1	32.4
	Total	100		
\$40,000-\$60,000	Yes	58.3	48.7	67.9
	No	41.7	32.1	51.3
	Total	100		
\$60,000-\$80,000	Yes	76.9	67.4	86.4
	No	23.1	13.6	32.6
	Total	100		
More than \$80,000	Yes	75.1	66.8	83.4
	No	24.9	16.6	33.2
	Total	100		
Total	Yes	70.5	66.5	74.4
	No	29.5	25.6	33.5
	Total	100		

## Section Two

### Results for Individual Rural/Remote LGAs

## Water Fluoridation Report - Balranald (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Balranald (A)	Yes	33.9	21.3	46.5
	No	66.1	53.5	78.7
	Total	100		

### Water source

Water source	Percent	95% Confidence for Percent	
Public water supply	38.6	26.9	50.3
Bottled water	4.3	0.0	9.3
Rainwater	53.1	41.4	64.9
Private bore, spring or well	1.7	0.0	3.9
Combination of different water sources	0.2	0.0	0.7
Other [SPECIFY]	2.0	0.0	5.6
Total	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Balranald (A)	Yes	32.1	9.3	54.8
	No	67.9	45.2	90.7
	Total	100		

### All natural teeth missing

LGA	ALL Teeth Miss	Percent	95% Confidence Limits for Percent	
Balranald (A)	Yes	11.9	5.7	18.1
	No	88.1	81.9	94.3
	Total	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Balranald (A)	Yes	73.0	61.2	84.8
	No	27.0	15.2	38.8
	Total	100		

### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Balranald (A)	Yes	15.0	6.0	23.9
	No	85.0	76.1	94.0
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Balranald (A)	Yes	6.7	2.0	11.4
	No	93.3	88.6	98.0
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Balranald (A)	Yes	2.4	0.0	5.7
	No	97.6	94.3	100.0
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Balranald (A)	Yes	1.8	0.0	5.0
	No	98.2	95.0	100.0
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Balranald (A)	Yes	63.6	52.5	74.7
	No	36.4	25.3	47.5
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Balranald (A)	Yes	14.2	6.3	22.1
	No	85.8	77.9	93.7
	Total	100		

## Water Fluoridation Report - Brewarrina (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Brewarrina (A)	Yes	81.0	71.2	90.9
	No	19.0	9.1	28.8
	Total	100		

### Water source

Water Source	Percent	95% Confidence for Percent	
Public water supply	52.5	40.8	64.3
Bottled water	5.3	0.0	11.2
Rainwater	37.0	26.1	48.0
Private bore, spring or well	4.4	0.0	8.9
Combination of different water sources	0.8	0.0	2.3
Total	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Brewarrina (A)	Yes	87.8	77.6	98.0
	No	12.2	2.0	22.4
	Total	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Brewarrina (A)	Yes	8.0	2.8	13.1
	No	92.0	86.9	97.2
	Total	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Brewarrina (A)	Yes	70.7	59.0	82.4
	No	29.3	17.6	41.0
	Total	100		



### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Brewarrina (A)	Yes	17.7	9.4	26.0
	No	82.3	74.0	90.6
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Brewarrina (A)	Yes	23.5	13.7	33.2
	No	76.5	66.8	86.3
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Brewarrina (A)	Yes	9.3	3.1	15.4
	No	90.7	84.6	96.9
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Brewarrina (A)	Yes	4.9	0.0	9.9
	No	95.1	90.1	100.0
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Brewarrina (A)	Yes	45.6	33.8	57.4
	No	54.4	42.6	66.2
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Brewarrina (A)	Yes	12.5	6.0	19.0
	No	87.5	81.0	94.0
	Total	100		

## Water Fluoridation Report - Carrathool (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Carrathool (A)	Yes	78.2	69.8	86.5
	No	21.8	13.5	30.2
	<b>Total</b>	100		

### Water source

Water source	Percent	95% Confidence Limits for Percent	
Public water supply	34.5	25.6	43.4
Bottled water	2.4	0.1	4.7
Rainwater	49.5	39.9	59.0
Private bore, spring or well	9.8	4.9	14.8
Combination of different water sources	1.2	0.0	3.0
Other [SPECIFY]	2.5	0.0	6.6
<b>Total</b>	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Carrathool (A)	Yes	82.4	70.3	94.4
	No	17.6	5.6	29.7
	<b>Total</b>	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Carrathool (A)	Yes	5.7	2.1	9.3
	No	94.3	90.7	97.9
	<b>Total</b>	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Carrathool (A)	Yes	70.8	61.2	80.4
	No	29.2	19.6	38.8
	<b>Total</b>	100		

### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Carrathool (A)	Yes	17.1	10.1	24.0
	No	82.9	76.0	89.9
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Carrathool (A)	Yes	18.6	11.8	25.4
	No	81.4	74.6	88.2
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Carrathool (A)	Yes	10.8	5.0	16.5
	No	89.2	83.5	95.0
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Carrathool (A)	Yes	2.3	0.0	4.7
	No	97.7	95.3	100.0
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Carrathool (A)	Yes	49.9	40.4	59.5
	No	50.1	40.5	59.6
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Carrathool (A)	Yes	17.1	10.2	24.0
	No	82.9	76.0	89.8
	Total	100		

## Water Fluoridation Report - Corowa Shire (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Corowa Shire (A)	Yes	68.5	58.7	78.3
	No	31.5	21.7	41.3
	Total	100		

### Water source

Water source	Percent	95% Confidence for Percent	
Public water supply	70.2	61.1	79.3
Bottled water	2.7	0.4	5.0
Rainwater	19.4	11.3	27.5
Private bore, spring or well	3.0	0.0	6.2
Combination of different water sources	1.8	0.0	3.8
Other [SPECIFY]	2.9	0.0	6.7
Total	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Corowa Shire (A)	Yes	69.6	57.7	81.6
	No	30.4	18.4	42.3
	Total	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Corowa Shire (A)	Yes	12.1	6.8	17.4
	No	87.9	82.6	93.2
	Total	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Corowa Shire (A)	Yes	75.1	65.8	84.4
	No	24.9	15.6	34.2
	Total	100		

### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Corowa Shire (A)	Yes	21.2	13.3	29.1
	No	78.8	70.9	86.7
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Corowa Shire (A)	Yes	26.9	17.9	35.9
	No	73.1	64.1	82.1
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Corowa Shire (A)	Yes	12.6	5.3	19.9
	No	87.4	80.1	94.7
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Corowa Shire (A)	Yes	7.1	1.0	13.1
	No	92.9	86.9	99.0
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Corowa Shire (A)	Yes	46.5	36.6	56.4
	No	53.5	43.6	63.4
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Corowa Shire (A)	Yes	15.3	8.0	22.7
	No	84.7	77.3	92.0
	Total	100		

## Water Fluoridation Report - Guyra (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Guyra (A)	Yes	64.0	52.4	75.5
	No	36.0	24.5	47.6
	Total	100		

### Water source

Water source	Percent	95% Confidence for Percent	
Public water supply	21.5	14.3	28.8
Bottled water	7.5	0.0	15.8
Rainwater	61.2	50.6	71.8
Private bore, spring or well	4.9	0.9	9.0
Combination of different water sources	1.0	0.0	2.6
Other [SPECIFY]	3.5	0.0	9.5
Don't know	0.3	0.0	0.8
Total	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Guyra (A)	Yes	81.9	66.5	97.2
	No	18.1	2.8	33.5
	Total	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Guyra (A)	Yes	8.8	4.5	13.1
	No	91.2	86.9	95.5
	Total	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Guyra (A)	Yes	83.9	75.9	91.9
	No	16.1	8.1	24.1
	Total	100		

### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Guyra (A)	Yes	18.6	7.5	29.6
	No	81.4	70.4	92.5
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Guyra (A)	Yes	11.7	6.6	16.7
	No	88.3	83.3	93.4
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Guyra (A)	Yes	7.0	3.1	11.0
	No	93.0	89.0	96.9
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Guyra (A)	Yes	1.8	0.0	3.6
	No	98.2	96.4	100.0
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Guyra (A)	Yes	39.6	29.3	50.0
	No	60.4	50.0	70.7
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Guyra (A)	Yes	17.0	9.9	24.2
	No	83.0	75.8	90.1
	Total	100		

## Water Fluoridation Report - Gwydir (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Gwydir (A)	Yes	81.4	73.6	89.3
	No	18.6	10.7	26.4
	Total	100		

### Water source

Water source	Percent	95% Confidence for Percent	
Public water supply	13.2	7.6	18.9
Bottled water	3.2	0.8	5.6
Rainwater	78.6	71.3	85.9
Private bore, spring or well	3.4	0.5	6.4
Combination of different water sources	1.0	0.0	2.5
Other [SPECIFY]	0.5	0.0	1.4
Total	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Gwydir (A)	Yes	91.8	75.6	100.0
	No	8.2	0.0	24.4
	Total	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Gwydir (A)	Yes	9.7	5.1	14.3
	No	90.3	85.7	94.9
	Total	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Gwydir (A)	Yes	79.9	69.9	90.0
	No	20.1	10.0	30.1
	Total	100		



### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Gwydir (A)	Yes	18.5	8.4	28.7
	No	81.5	71.3	91.6
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Gwydir (A)	Yes	15.8	9.4	22.2
	No	84.2	77.8	90.6
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Gwydir (A)	Yes	7.7	3.4	11.9
	No	92.3	88.1	96.6
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Gwydir (A)	Yes	1.7	0.0	3.7
	No	98.3	96.3	100.0
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Gwydir (A)	Yes	42.5	31.0	54.0
	No	57.5	46.0	69.0
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Gwydir (A)	Yes	26.0	12.4	39.6
	No	74.0	60.4	87.6
	Total	100		

## Water Fluoridation Report - Tenterfield (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Tenterfield (A)	Yes	51.4	37.9	64.9
	No	48.6	35.1	62.1
	<b>Total</b>	100		

### Water source

Water source	Percent	95% Confidence for Percent	
Public water supply	33.6	24.3	42.8
Bottled water	1.3	0.0	2.9
Rainwater	57.2	47.5	67.0
Private bore, spring or well	2.2	0.0	5.7
Other private supply (eg creek or farm dam)	1.5	0.0	3.7
Combination of different water sources	3.7	0.0	7.8
Other [SPECIFY]	0.5	0.0	1.4
<b>Total</b>	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Tenterfield (A)	Yes	59.3	40.1	78.4
	No	40.7	21.6	59.9
	<b>Total</b>	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Tenterfield (A)	Yes	6.1	2.6	9.5
	No	93.9	90.5	97.4
	<b>Total</b>	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Tenterfield (A)	Yes	80.8	72.3	89.2
	No	19.2	10.8	27.7
	<b>Total</b>	100		

### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Tenterfield (A)	Yes	21.9	13.5	30.2
	No	78.1	69.8	86.5
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Tenterfield (A)	Yes	17.1	9.3	24.9
	No	82.9	75.1	90.7
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Tenterfield (A)	Yes	1.6	0.0	4.0
	No	98.4	96.0	100.0
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Tenterfield (A)	Yes	0.3	0.0	0.9
	No	99.7	99.1	100.0
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Tenterfield (A)	Yes	57.2	47.4	66.9
	No	42.8	33.1	52.6
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Tenterfield (A)	Yes	7.5	2.8	12.2
	No	92.5	87.8	97.2
	Total	100		

## Water Fluoridation Report - Upper Hunter Shire (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Upper Hunter Shire (A)	Yes	80.7	72.8	88.6
	No	19.3	11.4	27.2
	Total	100		

### Water source

Water source	Percent	95% Confidence for Percent	
Public water supply	42.0	32.4	51.6
Bottled water	7.1	2.2	12.1
Rainwater	44.1	34.7	53.5
Private bore, spring or well	3.1	0.0	7.4
Combination of different water sources	1.9	0.0	4.6
Other [SPECIFY]	1.8	0.0	3.8
Total	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Upper Hunter Shire (A)	Yes	86.4	74.1	98.6
	No	13.6	1.4	25.9
	Total	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Upper Hunter Shire (A)	Yes	8.4	4.2	12.6
	No	91.6	87.4	95.8
	Total	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Upper Hunter Shire (A)	Yes	64.3	54.7	74.0
	No	35.7	26.0	45.3
	Total	100		

### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Upper Hunter Shire (A)	Yes	21.7	13.7	29.6
	No	78.3	70.4	86.3
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Upper Hunter Shire (A)	Yes	31.6	22.3	40.8
	No	68.4	59.2	77.7
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Upper Hunter Shire (A)	Yes	12.3	6.5	18.1
	No	87.7	81.9	93.5
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Upper Hunter Shire (A)	Yes	4.5	0.3	8.7
	No	95.5	91.3	99.7
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Upper Hunter Shire (A)	Yes	27.5	19.2	35.9
	No	72.5	64.1	80.8
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Upper Hunter Shire (A)	Yes	15.2	8.6	21.9
	No	84.8	78.1	91.4
	Total	100		

## Water Fluoridation Report - Upper Lachlan Shire (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Upper Lachlan Shire (A)	Yes	75.7	67.2	84.1
	No	24.3	15.9	32.8
	Total	100		

### Water source

Water source	Percent	95% Confidence for Percent	
Public water supply	35.2	26.1	44.3
Bottled water	0.6	0.0	1.9
Rainwater	60.1	50.8	69.4
Private bore, spring or well	1.8	0.0	4.1
Other [SPECIFY]	2.2	0.0	4.6
Total	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Upper Lachlan Shire (A)	Yes	84.1	71.6	96.6
	No	15.9	3.4	28.4
	Total	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Upper Lachlan Shire (A)	Yes	6.0	2.4	9.5
	No	94.0	90.5	97.6
	Total	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Upper Lachlan Shire (A)	Yes	75.0	65.6	84.3
	No	25.0	15.7	34.4
	Total	100		

### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Upper Lachlan Shire (A)	Yes	15.4	8.9	21.9
	No	84.6	78.1	91.1
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Upper Lachlan Shire (A)	Yes	23.8	15.7	31.8
	No	76.2	68.2	84.3
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Upper Lachlan Shire (A)	Yes	18.9	10.3	27.5
	No	81.1	72.5	89.7
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Upper Lachlan Shire (A)	Yes	0.6	0.0	1.7
	No	99.4	98.3	100.0
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Upper Lachlan Shire (A)	Yes	32.1	23.3	40.9
	No	67.9	59.1	76.7
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Upper Lachlan Shire (A)	Yes	23.1	15.4	30.8
	No	76.9	69.2	84.6
	Total	100		

## Water Fluoridation Report - Walgett (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Walgett (A)	Yes	63.8	52.5	75.1
	No	36.2	24.9	47.5
	Total	100		

### Water source

Water source	Percent	95% Confidence for Percent	
Public water supply	19.9	11.1	28.7
Bottled water	7.7	0.2	15.3
Rainwater	57.4	46.6	68.2
Private bore, spring or well	11.0	3.9	18.2
Combination of different water sources	0.7	0.0	1.8
Other [SPECIFY]	3.1	0.0	7.3
Total	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Walgett (A)	Yes	68.5	41.4	95.5
	No	31.5	4.5	58.6
	Total	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Walgett (A)	Yes	7.4	3.2	11.5
	No	92.6	88.5	96.8
	Total	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Walgett (A)	Yes	86.8	80.4	93.3
	No	13.2	6.7	19.6
	Total	100		



### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Walgett (A)	Yes	21.6	13.0	30.3
	No	78.4	69.7	87.0
	Total	100.0		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Walgett (A)	Yes	20.1	12.8	27.4
	No	79.9	72.6	87.2
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Walgett (A)	Yes	7.0	0.9	13.1
	No	93.0	86.9	99.1
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Walgett (A)	Yes	2.2	0.0	6.0
	No	97.8	94.0	100.0
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Walgett (A)	Yes	44.8	34.5	55.2
	No	55.2	44.8	65.5
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Walgett (A)	Yes	10.3	2.1	18.4
	No	89.7	81.6	97.9
	Total	100		

## Water Fluoridation Report - Gunnedah (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Gunnedah (A)	Yes	77.3	68.7	85.8
	No	22.7	14.2	31.3
	Total	100		

### Water source

Water source	Percent	95% Confidence for Percent	
Public water supply	47.0	36.9	57.2
Bottled water	7.2	0.0	14.7
Rainwater	37.1	27.6	46.6
Private bore, spring or well	3.7	0.0	7.6
Combination of different water sources	1.1	0.0	2.8
Other [SPECIFY]	3.9	0.0	9.4
Total	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Gunnedah (A)	Yes	82.2	70.2	94.2
	No	17.8	5.8	29.8
	Total	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Gunnedah (A)	Yes	5.8	2.5	9.1
	No	94.2	90.9	97.5
	Total	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Gunnedah (A)	Yes	68.6	57.6	79.5
	No	31.4	20.5	42.4
	Total	100		

### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Gunnedah (A)	Yes	17.3	9.5	25.0
	No	82.7	75.0	90.5
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health	Percent	95% Confidence Limits for Percent	
Gunnedah (A)	Yes	20.6	12.9	28.3
	No	79.4	71.7	87.1
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental	Percent	95% Confidence Limits for Percent	
Gunnedah (A)	Yes	17.0	8.3	25.7
	No	83.0	74.3	91.7
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Gunnedah (A)	Yes	2.0	0.0	5.0
	No	98.0	95.0	100.0
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Gunnedah (A)	Yes	50.7	40.4	60.9
	No	49.3	39.1	59.6
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Gunnedah (A)	Yes	17.7	9.4	26.0
	No	82.3	74.0	90.6
	Total	100		

## Water Fluoridation Report - Byron (A)

### Agree with fluoridation

LGA	Agree	Percent	95% Confidence Limits for Percent	
Byron (A)	Yes	66.2	56.5	75.8
	No	33.8	24.2	43.5
	Total	100		

### Water source

Water source	Percent	95% Confidence for Percent	
Public water supply	59.9	50.5	69.4
Bottled water	6.5	2.0	10.9
Rainwater	26.8	17.9	35.7
Private bore, spring or well	3.2	0.0	6.9
Other private supply (eg creek or farm dam)	0.8	0.0	2.4
Combination of different water sources	1.2	0.0	3.5
Other [SPECIFY]	1.6	0.1	3.0
Total	100		

### Agree with fluoridation among people on public water supply

LGA	Agree	Percent	95% Confidence Limits for Percent	
Byron (A)	Yes	74.0	62.7	85.4
	No	26.0	14.6	37.3
	Total	100		

### All natural teeth missing

LGA	All Teeth Miss	Percent	95% Confidence Limits for Percent	
Byron (A)	Yes	3.6	0.0	7.3
	No	96.4	92.7	100.0
	Total	100		

### Any natural teeth missing

LGA	Any Teeth Miss	Percent	95% Confidence Limits for Percent	
Byron (A)	Yes	71.7	62.2	81.2
	No	28.3	18.8	37.8
	Total	100		

### Fluoridation should be decided by government

LGA	Decide by Government	Percent	95% Confidence Limits for Percent	
Byron (A)	Yes	12.2	6.1	18.2
	No	87.8	81.8	93.9
	Total	100		

### Fluoridation should be decided by health authority

LGA	Decide by Health Authority	Percent	95% Confidence Limits for Percent	
Byron (A)	Yes	25.4	16.6	34.2
	No	74.6	65.8	83.4
	Total	100		

### Fluoridation should be decided by dental association

LGA	Decide by Dental Association	Percent	95% Confidence Limits for Percent	
Byron (A)	Yes	6.0	1.7	10.3
	No	94.0	89.7	98.3
	Total	100		

### Fluoridation should be decided by water boards

LGA	Decide by Water Boards	Percent	95% Confidence Limits for Percent	
Byron (A)	Yes	2.0	0.1	4.0
	No	98.0	96.0	99.9
	Total	100		

### Fluoridation should be decided by community

LGA	Decide by Community	Percent	95% Confidence Limits for Percent	
Byron (A)	Yes	39.8	30.6	49.1
	No	60.2	50.9	69.4
	Total	100		

### Fluoridation should be decided by other

LGA	Decide by Other	Percent	95% Confidence Limits for Percent	
Byron (A)	Yes	23.4	15.3	31.4
	No	76.6	68.6	84.7
	Total	100		

## Appendix A Water Fluoridation Survey questionnaire

### Centre for Oral Health Strategy, NSW Fluoridation Study 2010

IN1	Introduction	<p><b>Good morning/afternoon/evening, my name is _____ and I am calling from the NSW Health Department. We are conducting an important study on the dental health of people in NSW and we would like to interview someone in your household. The survey is used to help plan the provision of dental health services in your area and to let us know about current health issues.</b></p> <p><b>We would greatly appreciate your household's participation in this study and I would like to introduce it to you briefly and explain how it works.</b></p> <p>1 Yes → IN10                  2 Yes, I'll get someone                  4 Refusal→Thanks and Goodbye                  6 Language problem - NOT able to Proceed →DEM7                  7 Household not in NSW/holiday house →Thanks and Goodbye                  8 Not a resident of NSW → Thanks and Goodbye                  10 Disability - ONLY USE IF ONLY ONE HOUSEHOLDER → Thanks and Goodbye                  11 REFUSAL - NEVER CONTACT AGAIN → Thanks and Goodbye                  12 HANG UP - SAID NOTHING →Thanks and Goodbye                  13 No one 16 or over in household→Thanks and Goodbye</p>
IN10	Participate	<p><b>Firstly can I just confirm that you live in NSW?</b></p> <p>1 Yes - NSW                  2 ACT → Thanks and Goodbye                  3 Vic → Thanks and Goodbye                  4 QLD → Thanks and Goodbye                  5 SA → Thanks and Goodbye                  R Refused →Thanks and Goodbye</p>
INT1a	Number of people living in the household	<p><b>Your phone number has been chosen at random from all possible telephone numbers in your area. We would like to make a random selection of a person, 16 years old or older, in your household to interview.</b></p> <p><b>So that we can randomly select one person 16 or over from your household can you please tell me, how many people, including yourself, live in your household?</b></p> <p>_____</p> <p>If ANS=1→INT1C</p>

POS	Age Position of Speaker		<p>IF INT1a=2  <b>Now can you tell me if you are the oldest or youngest person living in your household?</b></p> <p>IF INT1a&gt;2  <b>Now can you tell me if you are the oldest, second oldest, third oldest...xth oldest living in your household?</b></p> <p>1 Oldest  2 Second oldest  3 Third oldest  4 Fourth oldest  5 Fifth oldest  6 Sixth oldest  7 Seventh oldest  8 Eighth oldest  9 Ninth oldest  10 Tenth oldest  11 Eleventh oldest  12 Twelfth oldest  13 Thirteenth oldest  14 Fourteenth oldest</p>
INT1c	Random Selection		<p><b>We have done the random selection and we would like to interview ..... / in your household?</b></p> <p><b>Could I please speak to that person?  Is that person a child under 16 years of age?</b></p> <p>INTERVIEWER: IF THE RESPONDENT CHOSEN IS THE PERSON YOU ARE CURRENTLY SPEAKING TO SUBSTITUTE 'YOU' FOR THE CHOICE AT POS.</p> <p>1 Yes, that's me → INT2  2 Yes, another person but not available now → MAKE APPOINTMENT → INT2  3 Yes I'll get the person →INT2  4 Yes my son/daughter (OR OTHER PERSON UNDER 16)  5 Selected respondent does not speak English →DEM7  R Refused → Thanks and Goodbye</p>
DEM2d	Age		<p><b>Could you please tell me how old you are today?</b></p> <p><b>We summarise all the information we collect according to people's age groups so it is important that we have information about the age of people we are interviewing.</b></p> <p>Age in years  88888 Don't know (skp TGB)  99999 Refused (skp TGB)</p>
DEM3	Sex		<p><b>Are you male or female?</b></p> <p>1 Male  2 Female</p>
ORAL			<p><b>The next questions are about your/[child's] teeth and dental health.</b></p>

OHE1	Any teeth missing		<p><b>Are any of your natural teeth missing?</b></p> <p>[NOTE: INCLUDES WISDOM TEETH] [PROMPT IF NECESSARY]</p> <p>1 Yes – have some natural teeth missing 2 Yes – have all natural teeth missing 3 No – have no natural teeth missing X Don't know R Refused</p>
OHE6	Time since last dental visit		<p><b>When did you/[child] last visit a dental professional about your teeth, dentures or gums? (A dental professional includes dentist, dental specialist, dental hygienist, dental therapist or oral health therapist).</b></p> <p>[READ OUT]</p> <p><b>1 Less than 12 months ago</b> <b>2 1 year to less than 2 years ago</b> <b>3 2 to less than 5 years ago</b> <b>4 5 to less than 10 years ago</b> <b>5 10 years ago or more → OHE18</b> <b>6 Never → OHE18</b> X Don't know R Refused</p>
OHE5	Most recent oral health problem		<p><b>What treatment did you/[child] receive at your/his/her last dental visit?</b></p> <p>[MULTIPLE RESPONSE]</p> <p>1 Check up 2 Dental filling 3 Oral health education 4 Amalgam replacement 5 Root canal filling 6 Crown 7 Implant 8 Tooth extraction 9 Fluoride treatment 10 Gum treatment 11 Teeth straightened/braces 12 New or replacement dentures 13 Teeth cleaned 14 Fissure sealant 15 Whitening/bleaching 16 Denture repair 17 None – did not visit the dentist 18 Surgery of the mouth/jaw 19 Other treatment [SPECIFY] X Don't know R Refused</p>



ENR1	Usual source of drinking water		<p><b>What is your normal source of drinking water?</b></p> <p>INTERVIEWERS: IF RESPONSE IS TAP WATER PROMPT FOR PUBLIC OR PRIVATE SOURCE</p> <p>1 Public water supply  2 Bottled water  3 Rainwater  4 Private bore, spring or well  5 Other private supply (eg creek or farm dam)  6 Combination of different water sources  7 Other [SPECIFY]_____</p> <p>X Don't know  R Refused</p>
OHE9	Fluoride added to public water		<p>IF ENR1 = 1</p> <p><b>Has fluoride been added to your public water supply?</b></p> <p>1 Yes  2 No →OHE10b  X Don't know →OHE10b  R Refused →OHE10b</p>
OHE10a	Agree with adding fluoride to water		<p>IF ENR1 = 1 AND OHE9 = 1</p> <p><b>Do you agree with adding fluoride to your water supply to try and prevent teeth decaying?</b></p> <p>1 Yes→OHE11  2 No→OHE11  X Don't know→OHE11  R Refused → OHE11</p>
OHE10b	Would be in favour of adding fluoride to water  Not used after 23/11/10		<p><b>Would you be in favour of adding fluoride to your water supply to try and prevent teeth decaying:</b></p> <p>[READ OUT]</p> <p><b>1 In children?  2 In adults?  3 Both adults and children?  4 Neither</b></p> <p>X Don't know  R Refused</p>
OHE10bb	Question changed 23/11/10 with approval from Shanti Sivaneswaran by Matt Gorrige		<p><b>Would you be in favour of adding fluoride to the public water supply to try and prevent teeth decaying:</b></p> <p>[READ OUT]</p> <p><b>1 In children?  2 In adults?  3 Both adults and children?  4 Neither</b></p> <p>X Don't know  R Refused</p>

OHE11	Places received information on water fluoridation		<p><b>Where have you received information on water fluoridation?</b></p> <p>(MULTIPLE RESPONSE - do NOT prompt)</p> <p>Newspapers Magazines Television Radio Advertisements for dental products Health authorities Dentists Dental auxiliaries No information/source Other _____[specify] X Don't know R Refused</p>
OHE12	Who should decide on fluoridation		<p><b>Who should decide on the fluoridation of water supplies?</b></p> <p>[MULTIPLE RESPONSE]</p> <p>State government Health authorities Dental associations Water boards Community Other _____[specify] X Don't know R Refused</p>
			<p><b>Demographics</b></p>
DEMA			<p><b>Now we are coming to the last section of the survey. I am going to ask some routine questions about your background. Remember that all your answers remain confidential.</b></p> <p>[IF ASKED]</p> <p><b>We ask these questions so that we can get an idea of the health concerns of different groups of people such as men and women, city people and country people.</b></p>
QALLP	Highest qualification completed		<p><b>What is the level of the highest qualification you have completed?</b></p> <ol style="list-style-type: none"> <li>1. Completed School Certificate/ Intermediate/ Year 10/4<sup>th</sup> Form....</li> <li>2. Completed HSC/Leaving/Year 12/ 6<sup>th</sup> Form</li> <li>3. TAFE Certificate or Diploma</li> <li>4. University, CAE or some other tertiary institute degree or higher</li> <li>5. Other [SPECIFY]</li> <li>6. Completed Primary School</li> <li>7. Completed years 7-9</li> </ol> <p>X Don't Know R Refused</p>

INC2	Household income		<p><b>I would now like to ask you about your household's income. What is your annual household income before tax? Would it be:</b></p> <p>[READ OUT]</p> <ol style="list-style-type: none"> <li>1. <b>Less than \$20,000</b></li> <li>2. <b>\$20,000-\$40,000</b></li> <li>3. <b>\$40,000-\$60,000</b></li> <li>4. <b>\$60,000-\$80,000</b></li> <li>5. <b>More than \$80,000</b></li> </ol> <p>X Don't know R Refused</p>
DEM18	Local shire		<p><b>What is the name of your local Council or Shire?</b></p> <p>_____ Council</p> <p>X Don't Know R Refused</p>
DEM16	Postcode		<p><b>Could you tell me your postcode?</b></p> <p>_____ POSTCODE→DEM19</p> <p>X Don't Know R Refused</p>
DEM17	Suburb/Town		<p><b>What is the name of the suburb or town where you live?</b></p> <p>_____</p> <p>X Don't know R Refused</p>
DEM19	More than one residential telephone number		<p><b>Do you have more than one telephone number in your household?</b></p> <ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No → REC1</li> </ol> <p>X Don't Know R Refused</p>
DEM20	Number of residential telephone numbers		<p><b>How many residential telephone numbers do you have? Do not include mobile phone numbers, dedicated FAX numbers or modems.</b></p> <p>_____ (number of residential telephone numbers)</p> <p>88888 Don't know 99999 Refused</p>
REC1	Agree to be contacted for validation		<p><b>As part of our quality control procedures our supervisors call back roughly 10% of respondents to check 3 or 4 questions. It would take no more than 1 minute of your time. Would you be willing to be called back?</b></p> <ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol> <p>X Don't know R Refused</p>
VAL3			<p><b>So that we know who to speak with when we call back could you please tell me your given name?</b></p> <p>_____</p>

THANKS	Further comments		<p><b>That completes the survey.</b></p> <p><b>Thank you for taking the time to help us.</b></p> <p><b>The information will be used to help improve dental health services in your local area and across the state.</b></p> <p><b>Do you have any further comments?</b></p> <hr/>
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