

CENTRAL WEST AWARENESS AND ATTITUDES TO NATURAL RESOURCE
MANAGEMENT (NRM) BENCHMARKING SURVEY:
A SOCIAL ATLAS

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Report Prepared for:
Central West Catchment Management Authority
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TABLE OF CONTENTS

Map 1	Property size (hectares)	4
Map 2	Years resident in the local area.....	5
Map 3	Years lived on the property	6
Map 4	Age of all residents.....	7
<u>Landholders</u>		
Map 5	Ability to identify environmental issues	8
Map 6	Health of rural properties (current)	9
Map 7	Health of rural properties (10 years ago).....	10
Map 8	Change in the health of rural properties	11
Map 9	Health of the local area (current).....	12
Map 10	Health of the local area (10 years ago).....	13
Map 11	Change in the health of the local area	14
Map 12	Weeds on rural properties	15
Map 13	Introduced pest animals on rural properties	16
Map 14	Erosion on rural properties	17
Map 15	Poor soil condition on rural properties	18
Map 16	lack of ground cover on rural properties	19
Map 17	Poor soil structure or acidity on rural properties	20
Map 18	Invasive native scrub on rural properties.....	21
Map 19	Loss of native vegetation on rural properties	22
Map 20	Poor condition of waterways on rural properties	23
Map 21	Poor quality groundwater on rural properties.....	24
Map 22	Decline in native animals on rural properties.....	25
Map 23	Salinity on rural properties.....	26
Map 24	Poor quality surface water on rural properties	27
Map 25	Water efficiency and use in urban area	28
Map 26	Water efficiency and use on farms	29
Map 27	Allocating water to the environment	30
Map 28	Conservation of native vegetation	31
Map 29	The health of native vegetation	32
Map 30	Knowledge of biodiversity	33
Map 31	Accepting a grant to improve property condition.....	34
Map 32	Grants or assistance to protect cultural heritage.....	35
Map 33	Community attitudes towards farming practices.....	36
Map 34	Participation in organised NRM activities	37
Map 35	Obtaining information from the Central West CMA	38
Map 36	Awareness of the Central West CMA	39
Map 37	Knowledge of the Central West CMA	40
Map 38	Knowledge of the CMA: Government department	41
Map 39	Knowledge of the CMA	42
Map 40	Contact with the Central West CMA	43
Map 41	The role of the CMA: Vegetation clearing.....	44
Map 42	The role of the CMA: Working with farmers.....	45
Map 43	The role of the CMA: Water management.....	46

Map 44	Evaluating the CMA: Natural resource management.....	47
Map 45	Evaluating the CMA: Supporting the CMA.....	48
Map 46	Evaluating the CMA: Best management practices.....	49

Urban Residents

Map 47	Ability to identify environmental issues	50
Map 48	Health of the local area (current).....	51
Map 49	Health of the local area (10 years ago).....	52
Map 50	Change in the health of the local area	53
Map 51	Weeds in the local area.....	54
Map 52	An increase in pest animals in the local area.....	55
Map 53	Erosion in the local area	56
Map 54	Loss of native vegetation in the local area	57
Map 55	Over allocation or use of water in the local area	58
Map 56	A decline in native animals in the local area.....	59
Map 57	Loss of native animals and birds in the local area.....	60
Map 58	Climate change impacts in the local area	61
Map 59	The health of waterways in the local area	62
Map 60	Lack of ground cover in the local area	63
Map 61	Decline in soil health in the local area	64
Map 62	Poor quality groundwater in the local area.....	65
Map 63	Salinity in the local area	66
Map 64	The loss of grazing country in the local area.....	67
Map 65	Invasive native scrub in the local area.....	68
Map 66	The management of waste and effluent in the local area	69
Map 67	Poor quality surface water in the local area.....	70
Map 68	Water efficiency and use in urban areas.....	71
Map 69	Water efficiency and use on farms	72
Map 70	Allocating water to the environment	73
Map 71	Conservation of native vegetation	74
Map 72	The health of native vegetation	75
Map 73	Knowledge of biodiversity	76
Map 74	Community attitudes towards farming practices.....	77
Map 75	Participation in organised NRM activities	78
Map 76	Awareness of the Central West CMA	79
Map 77	Knowledge of the Central West CMA	80

1. INTRODUCTION

The Central West Catchment Management Authority (CW CMA) is one of 13 regional NRM bodies in NSW. The CMAs were established in 2004 and each CMA has developed a Catchment Action Plan (CAP) and Investment Strategies to support the management of natural resources and achievement of NRM targets within each region.

In achieving the NRM targets as identified in the CAP, community capacity building and engagement are integral activities which need to be undertaken to *enable* the achievement of core NRM targets and objectives. These enabling activities, which lead to intermediate outcomes within the program logic of NRM, include for example increasing community awareness and knowledge of NRM issues and increased participation and involvement in NRM activities. By increasing community capacity and by increasing the involvement of the community more broadly in NRM, the greater the likelihood that the resource condition targets, as identified in the CAP are able to be achieved.

This project provides the basis for benchmarking the existing level of community attitudes, awareness and involvement in natural resource management in the Central West and will form a reference point for ongoing monitoring and evaluation of the CMA's community engagement and capacity building over the life of the CAP.

2. OBJECTIVES

The primary objective of this project was to benchmark community awareness, attitudes and beliefs in relation to NRM and the CMA. Although the project provides a basis for developing initiatives within a community engagement context and directions for future marketing of the Central West CMA, the project focuses on social benchmarking and is not an explanatory study which seeks to identify and explain the underlying causes or determinants of community attitudes or beliefs.

The objectives for the project were to:

1. Provide a profile of the various stakeholders in natural resource management in the Central West catchment;
2. To benchmark the Central West community's level of awareness and attitudes to natural resource management issues;
3. To establish the Central West community's current level of involvement in NRM activities;
4. To benchmark the Central West community's level of awareness of CWCMA; and
5. To establish the most appropriate methods to engage key stakeholders and the wider Central West community in natural resource management and market the CWCMA.

3. SOCIAL ATLAS

The social atlas presented in this document is an additional report which accompanies the main report. The main project report describes the project methodology, analysis and findings in greater detail¹. The social atlas is based on the data as presented in the main report and presents the key variables spatially across the Central West region.

When examining the variables presented in the atlas, it is important to recognise that no assessment has been undertaken to determine whether the spatial variation that is presented is 'accurate'. To a large extent an assessment of the accuracy of the spatial representation of individual variables will be dependent upon the more detailed local knowledge of CMA staff and others with knowledge of the region.

For instance, Map 1 shows the variation in property sizes within the Central West region, which clearly indicates that the larger properties are to the west and the smaller properties are to the east. While the spatial variation presented in Map 1 appears to accurately represent the spatial variation evident in the region, the accuracy of the spatial variation presented in other maps is not always as clear. Judgments of 'accuracy' would in all cases be dependent upon local knowledge of the variable being represented.

Map 17 for instance shows the spatial variation amongst landholders who indicate that poor soil structure and acidity is an issue on their property. As shown in Map 17 this appears to be very much an issue in the Upper Macquarie subregion and less of an issue in parts of the Macquarie Bogan Floodplain. However, the 'accuracy' of the spatial variation as presented in Map 17 can only be assessed by those with good local knowledge of soil condition throughout the region.

Figure 1 shows the five subregions and 17 spatial units on which the atlas is based. Rural landholders were assigned to each of the 17 spatial units through an assessment of (i) the nearest town to where they lived; (ii) the distance to the nearest town and (iii) the nearest road intersection to their property. Urban residents were assigned to each of the spatial units on the basis of the town in which they lived.

To a large extent the number and location of spatial units was dependent upon the available sample size, although the spatial units were also reviewed by CMA staff. Maps 5 to 46 are based on rural landholders and the sample size was reasonably sufficient in most of the 17 spatial units. Maps 47 to 77 are based on urban residents and as shown in these maps there were six spatial units where the sample of urban residents was too low to allow for any meaningful analysis.

Table 1 shows the sample sizes for landholders and urban residents within each of the 17 spatial units. Of course where the sample size is low, greater consideration should be given to sampling error in the interpretation of findings.

¹ Fenton, D.M. and Rickert, A. (2007). *Central West Awareness and Attitudes to Natural Resource Management (NRM) Benchmarking Survey*. Central West Catchment Management Authority, Dubbo, NSW.

Figure 1 Subregions and Spatial Units within the Central West Region

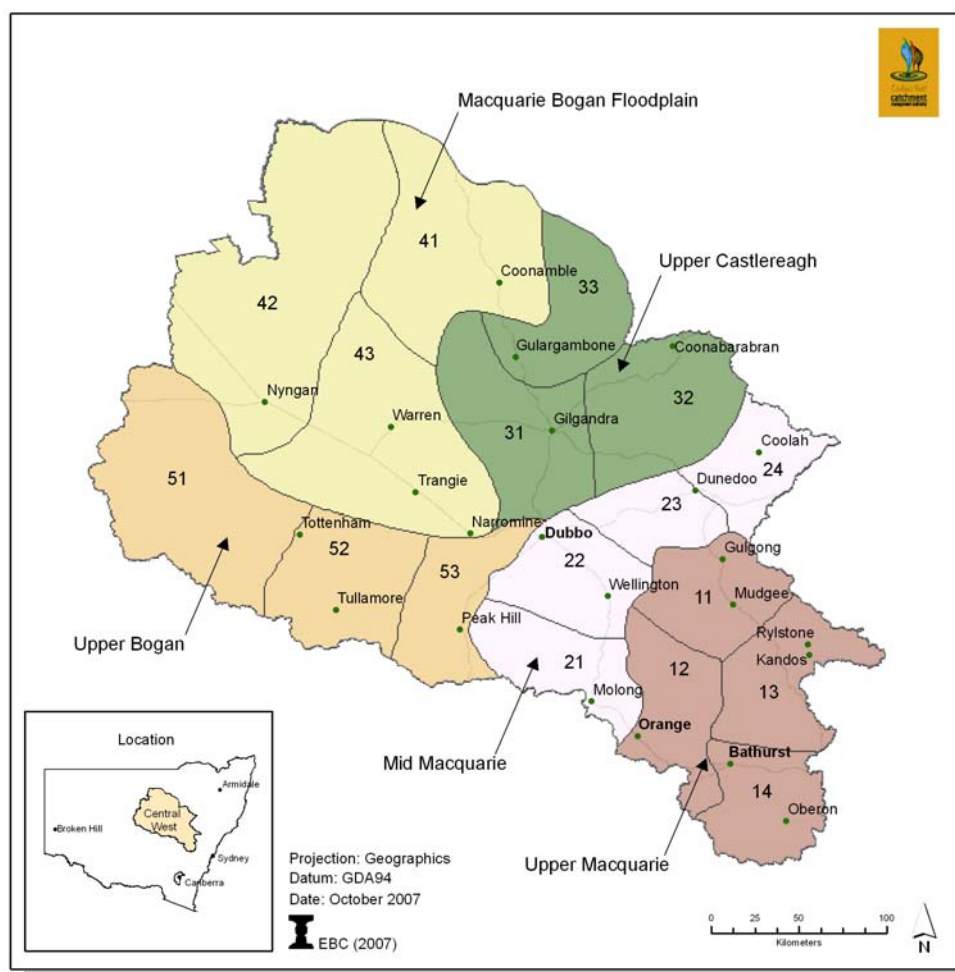
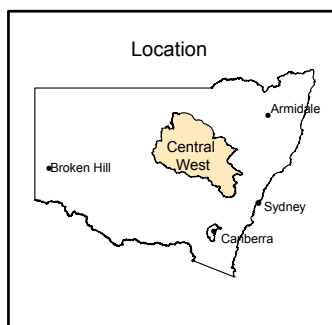
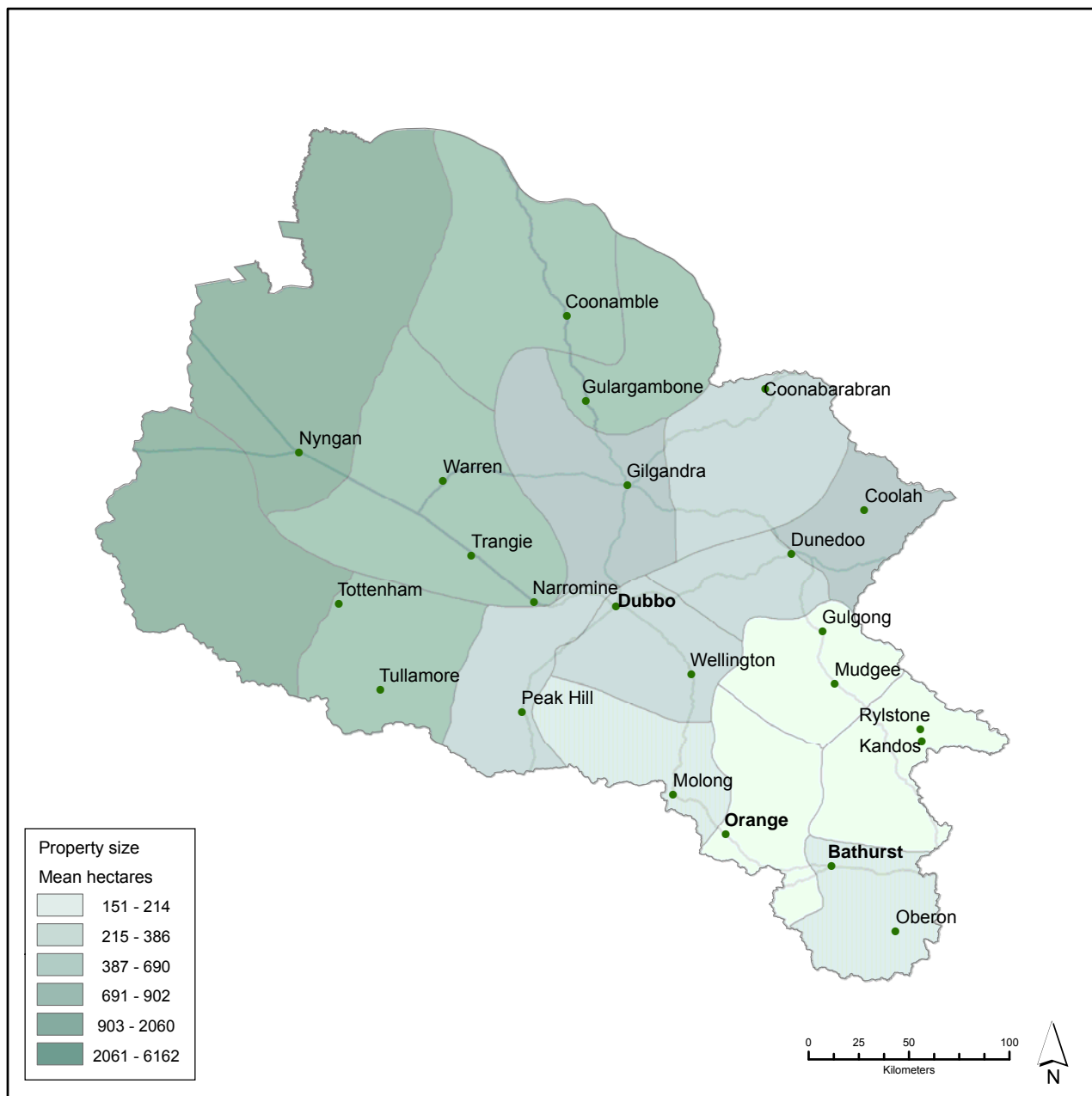


Table 1. Sample sizes for spatial units

Spatial unit	Landholders	Urban residents	Total
Upper Macquarie			
11	92	50	142
12	104	34	138
13	111	-	112
14	94	21	115
Mid Macquarie			
21	95	-	100
22	110	95	205
23	81	-	85
24	49	-	50
Upper Castlereagh			
31	137	36	173
32	138	47	185
33	29	-	37
Macquarie Bogan Floodplain			
41	57	52	109
42	73	25	98
43	125	32	157
Upper Bogan			
51	20	-	20
52	32	33	65
53	153	56	209
Total	1,500	481	2,000


1. PROPERTY SIZE (HECTARES)



Note: Based on the responses of landholders
The question stated: "How large is the property" [Acres or Hectares]

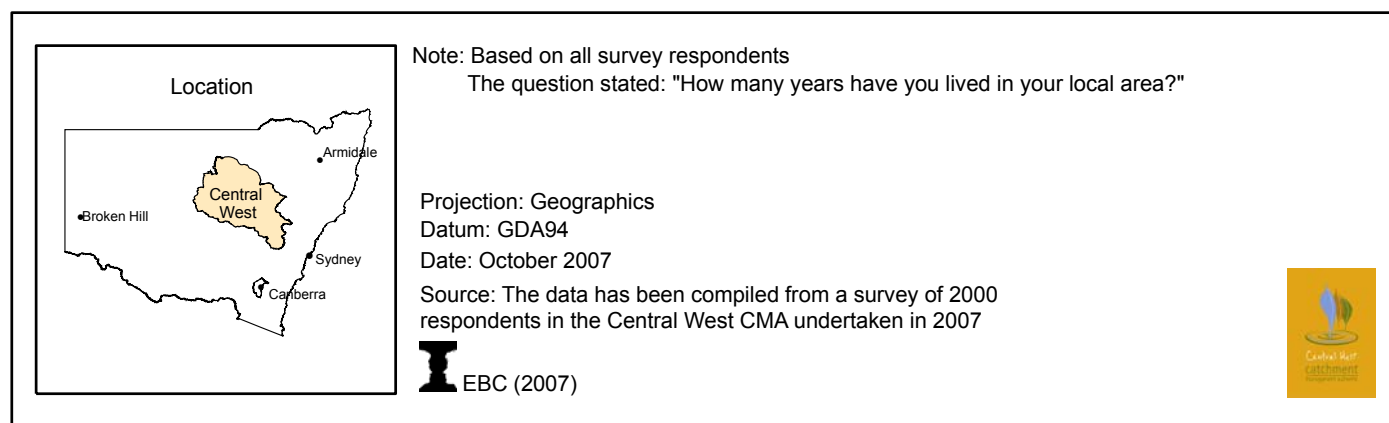
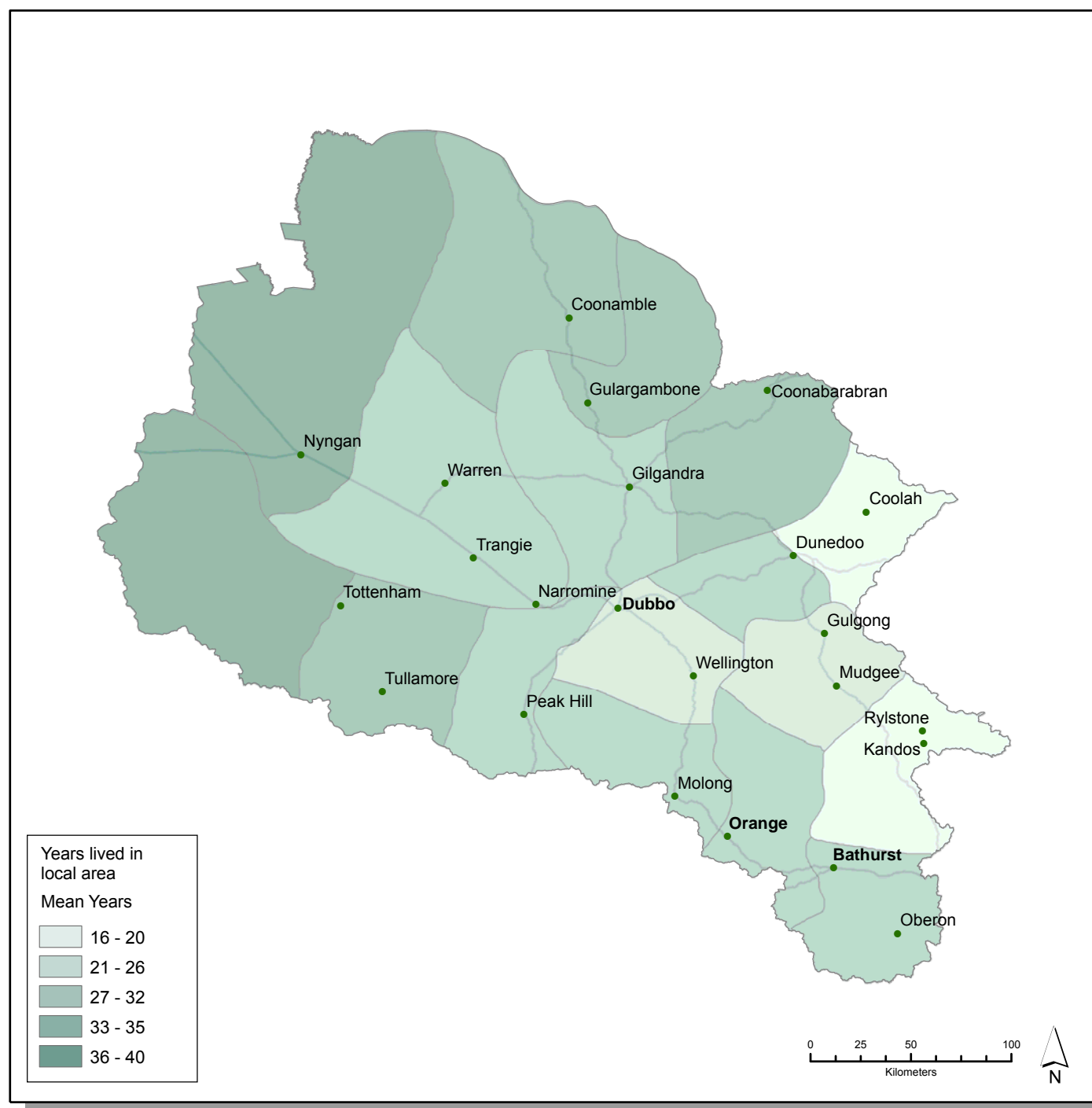
Projection: Geographics
Datum: GDA94
Date: October 2007

Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007

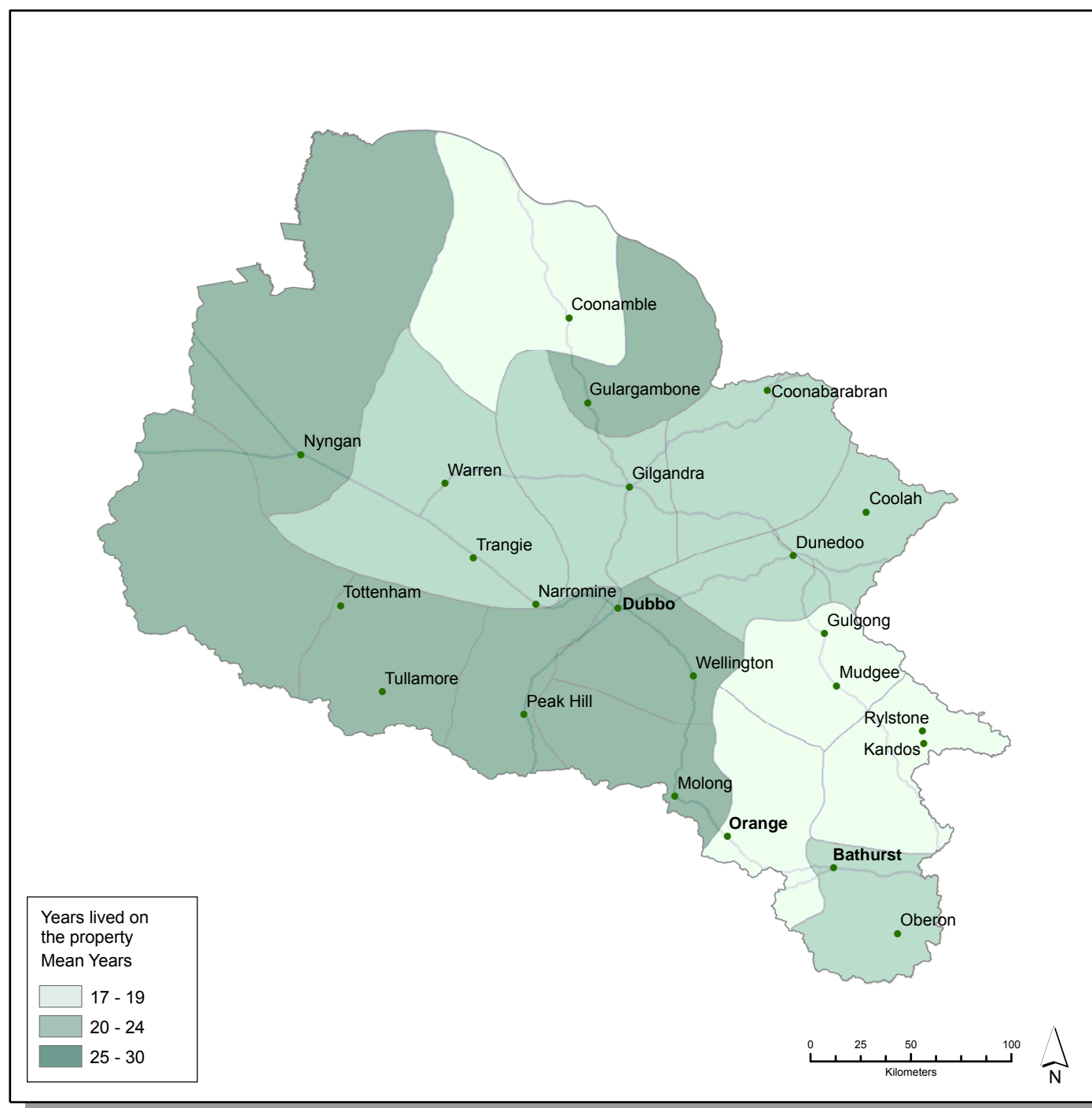
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2. YEARS RESIDENT IN THE LOCAL AREA



3. YEARS LIVED ON THE PROPERTY



Note: Based on the responses of landholders

The question stated: "How many years have you lived on your current property?"

Projection: Geographics

Datum: GDA94

Date: October 2007

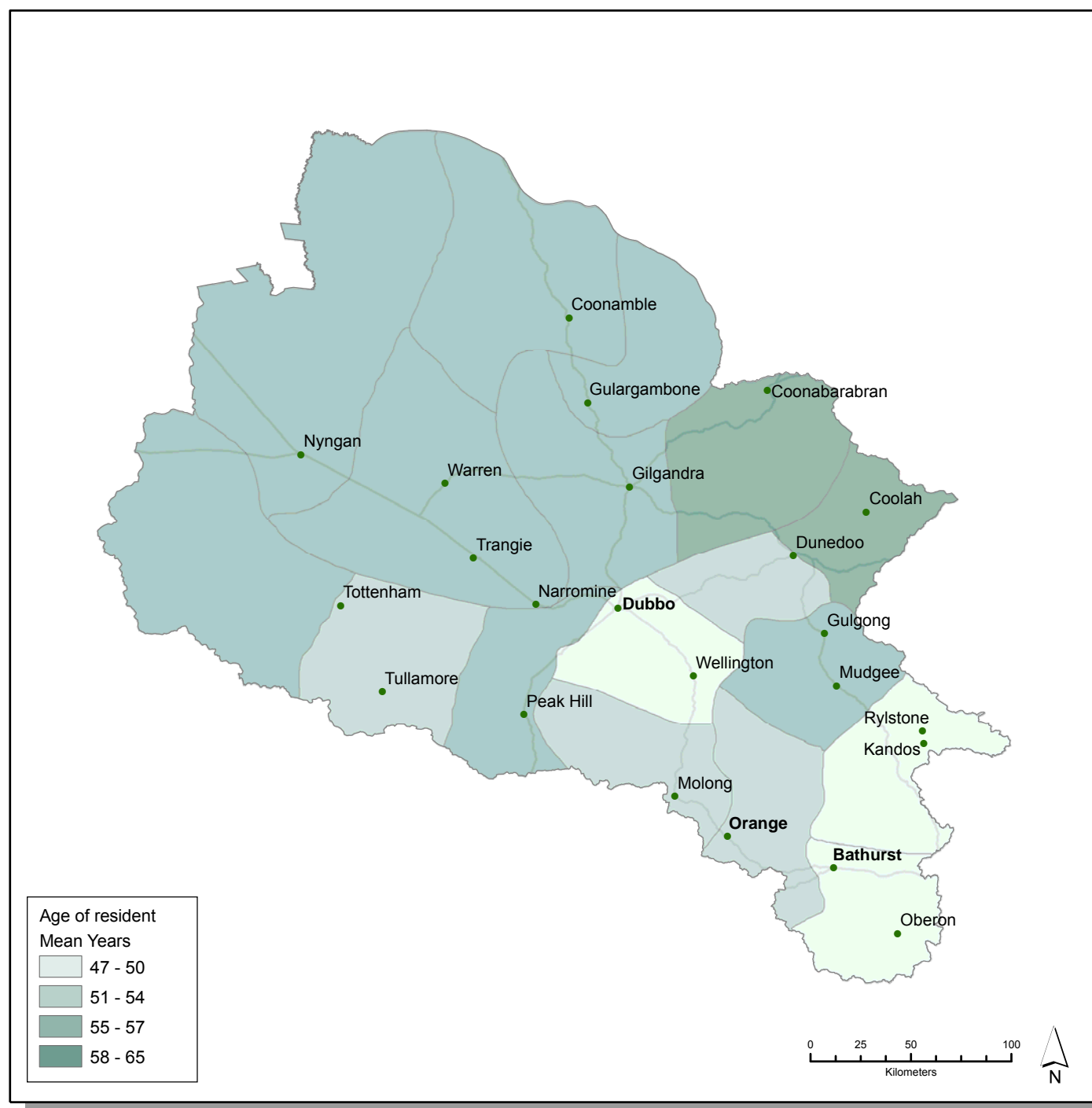
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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4. AGE OF ALL RESIDENTS



Note: Based on the responses of all residents

The question stated: "In what year were you born?" [converted to age]

Projection: Geographics

Datum: GDA94

Date: October 2007

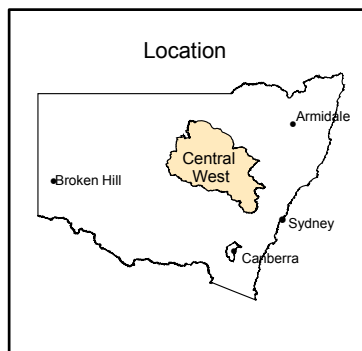
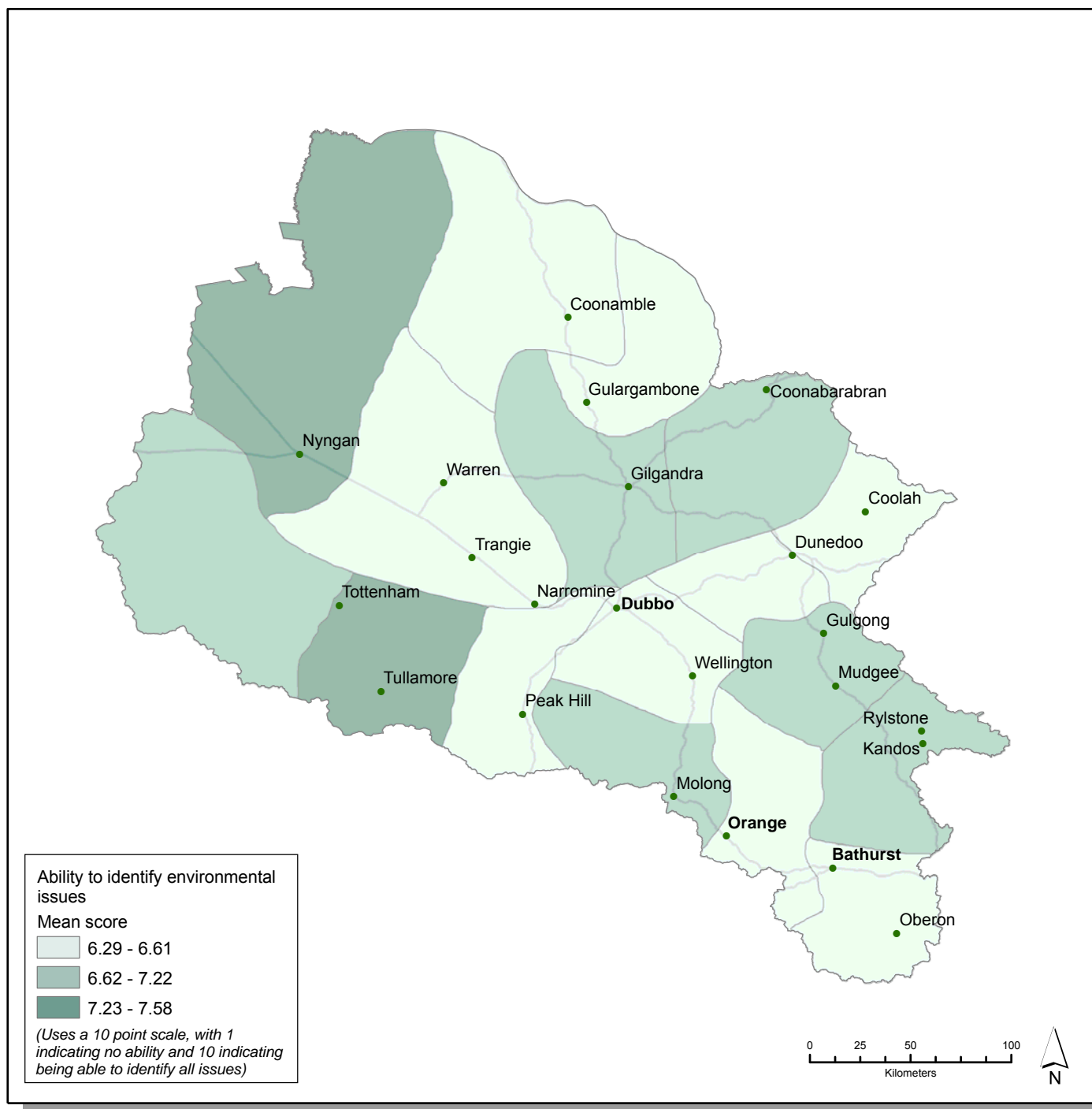
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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5. ABILITY TO IDENTIFY ENVIRONMENTAL ISSUES



Note: Based on the responses of landholders

The question stated: "If you were to give a score from one (1) to ten (10) in relation to your ability to identify environmental issues in your local area with one (1) being no ability to identify these issues and ten (10) being able to identify all the issues, what score would you give yourself?"

Projection: Geographics

Datum: GDA94

Date: October 2007

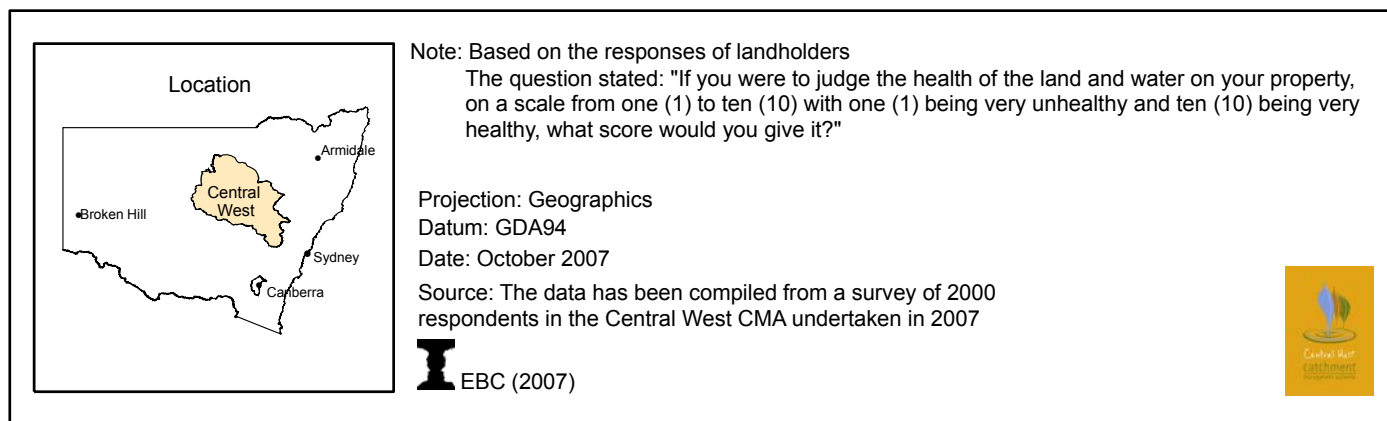
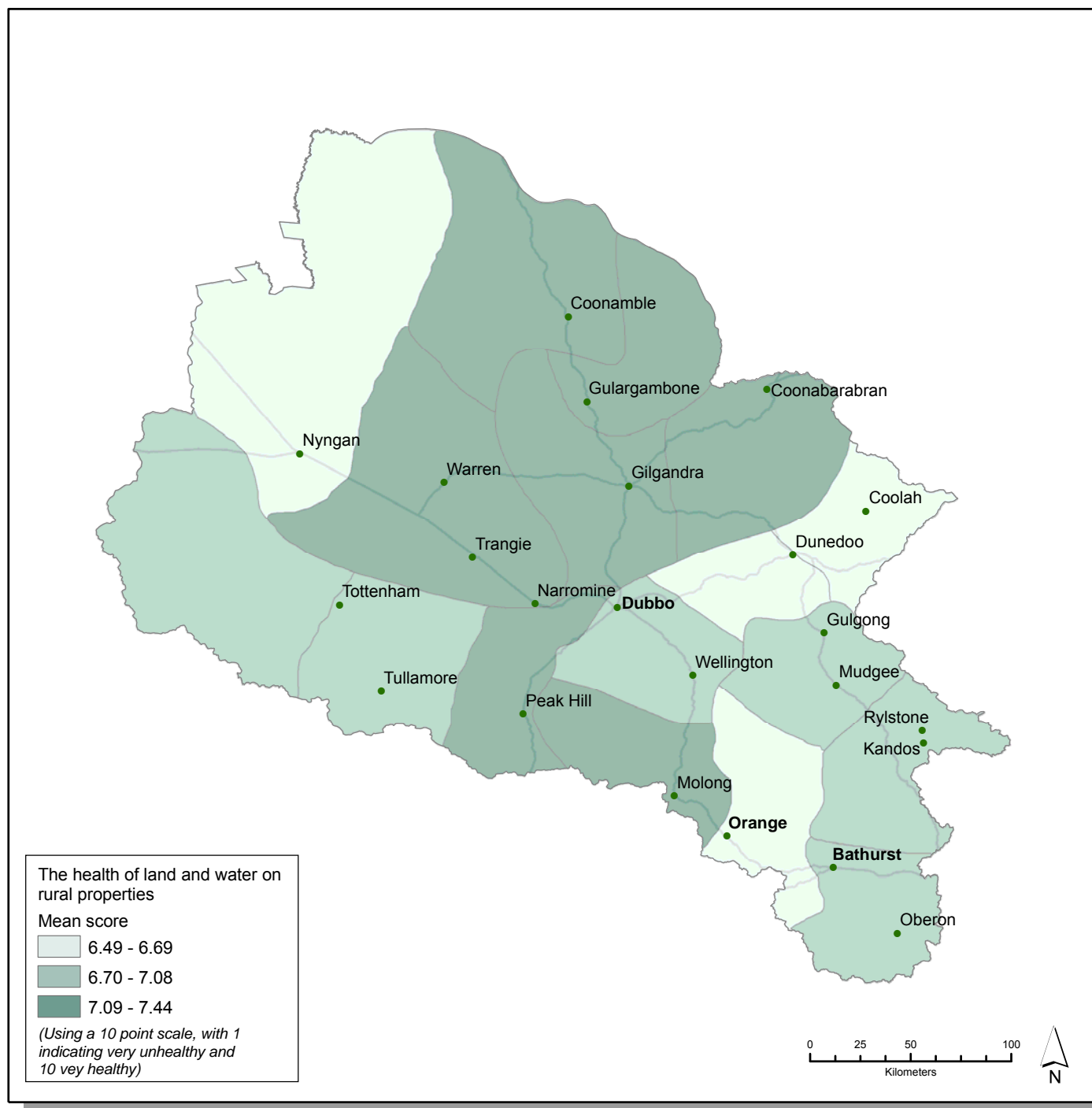
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



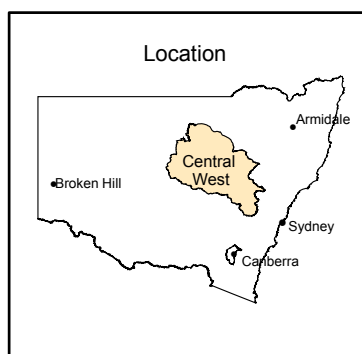
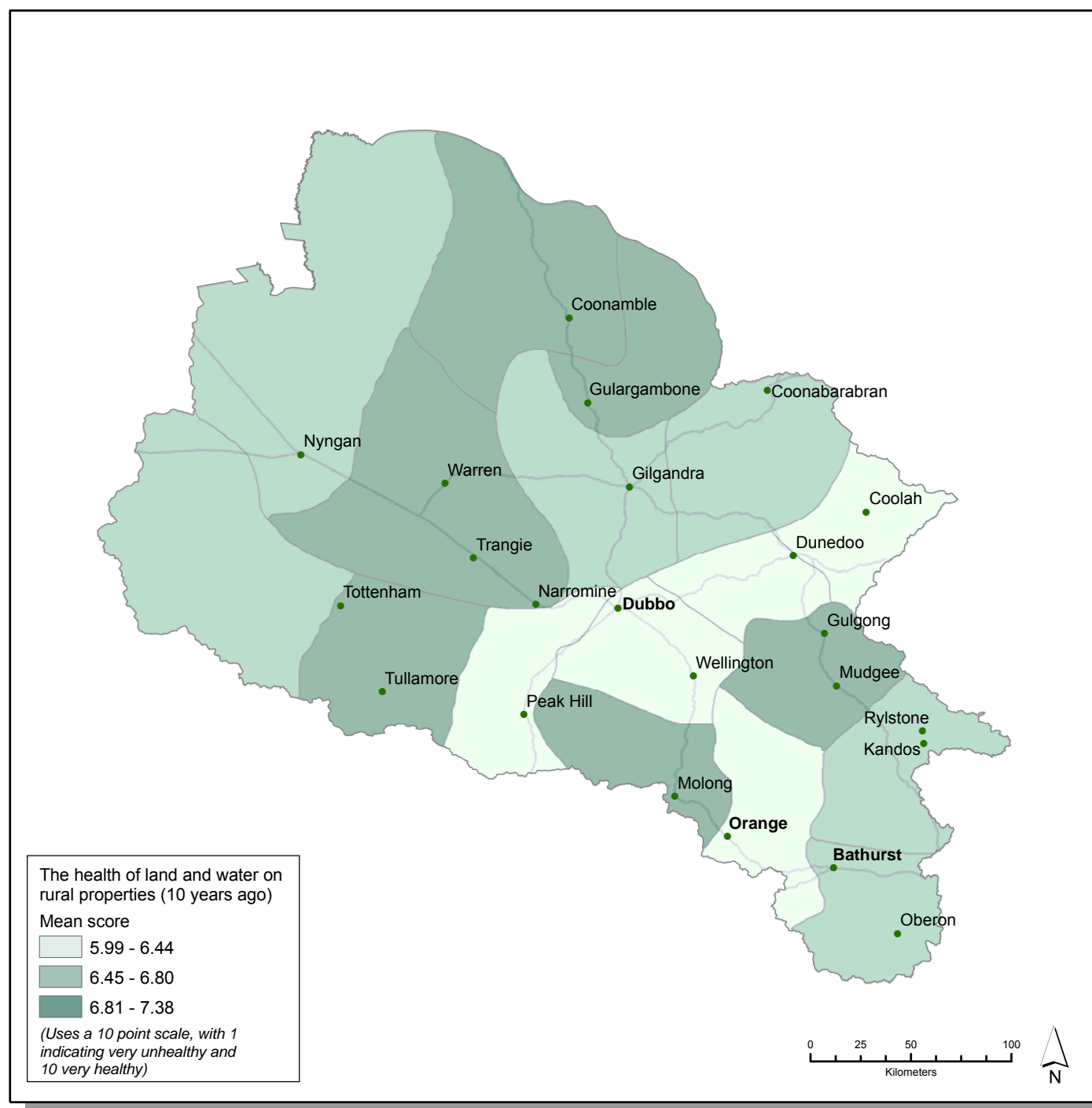
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6. HEALTH OF RURAL PROPERTIES (CURRENT)



7. HEALTH OF RURAL PROPERTIES (10 YEARS AGO)



Note: Based on the responses of landholders

The question stated: "Thinking back 10 years, and again on a scale from one (1) to ten (10) how would you have judged the health of your property then?"

Projection: Geographics

Datum: GDA94

Date: October 2007

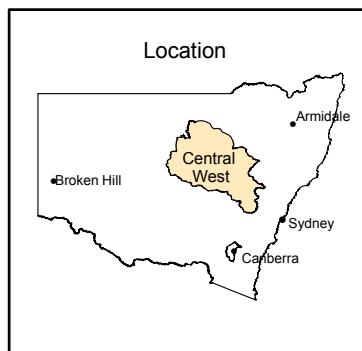
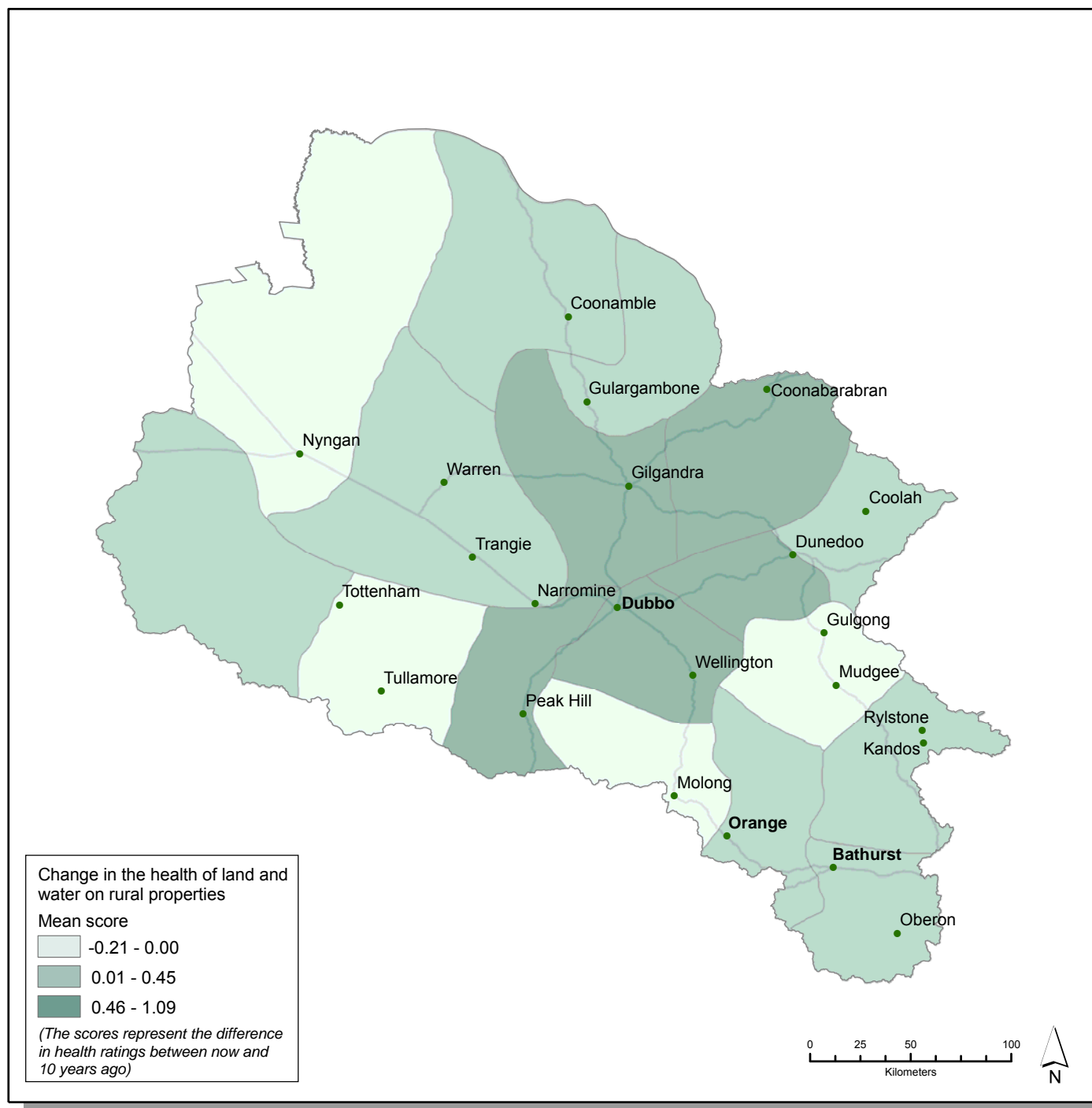
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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8. CHANGE IN THE HEALTH OF RURAL PROPERTIES



Note: Based on the responses of landholders

The scores that are mapped represent the difference in health rating scores for properties now and 10 years ago. A zero or negative score indicates the health of land and water on properties has become worse or not changed. A positive score indicates improvement in the health of land and water.

Projection: Geographics

Datum: GDA94

Date: October 2007

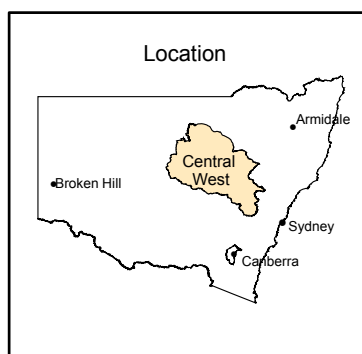
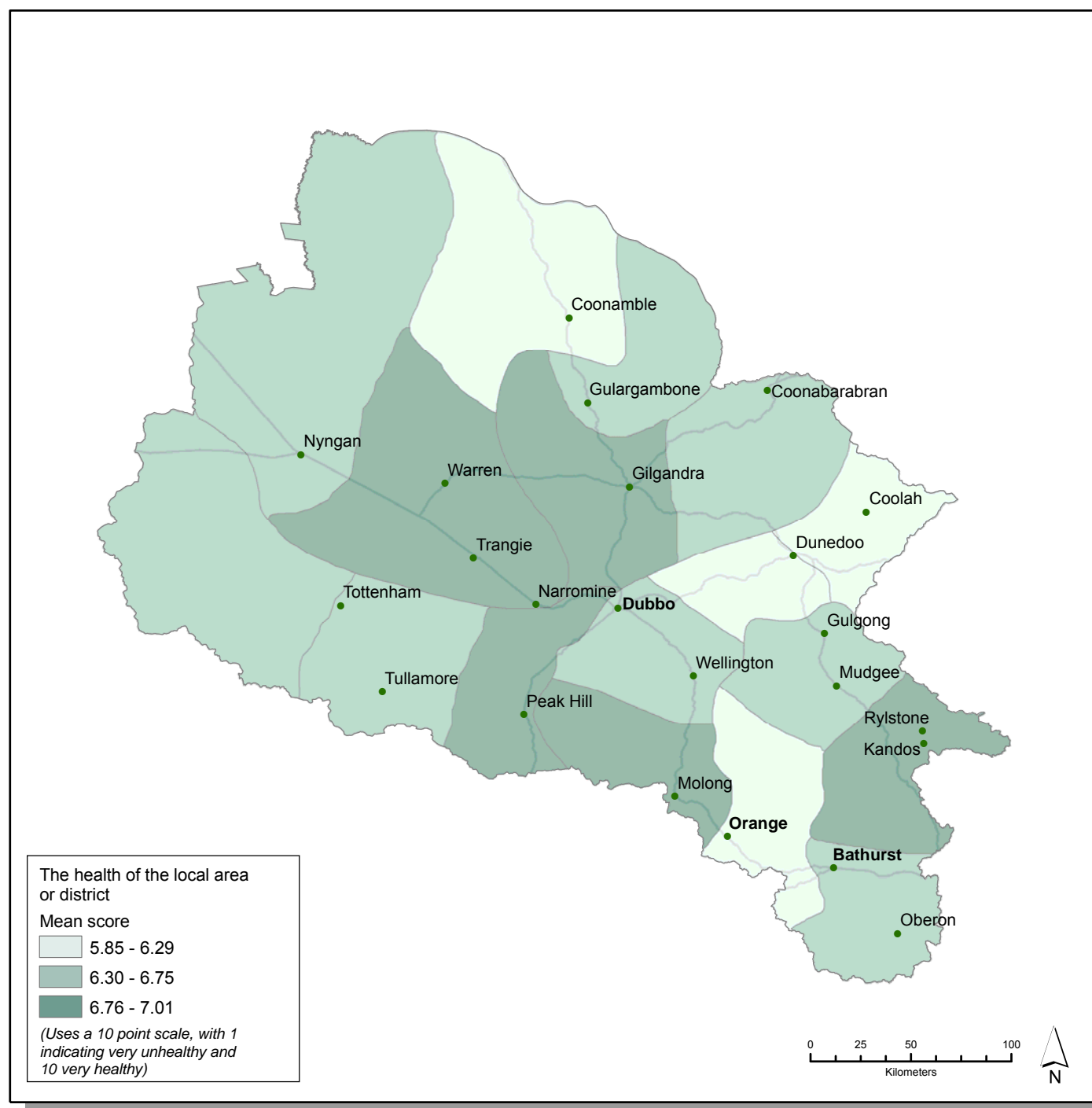
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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9. HEALTH OF THE LOCAL AREA (CURRENT)



Note: Based on the responses of landholders

The question stated: "If you were to judge the health of the natural environment in your local area on a scale from one (1) to ten (10), with one (1) being very unhealthy and ten (10) being very healthy, what score would you give it?"

Projection: Geographics

Datum: GDA94

Date: October 2007

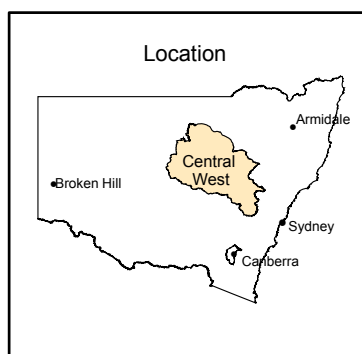
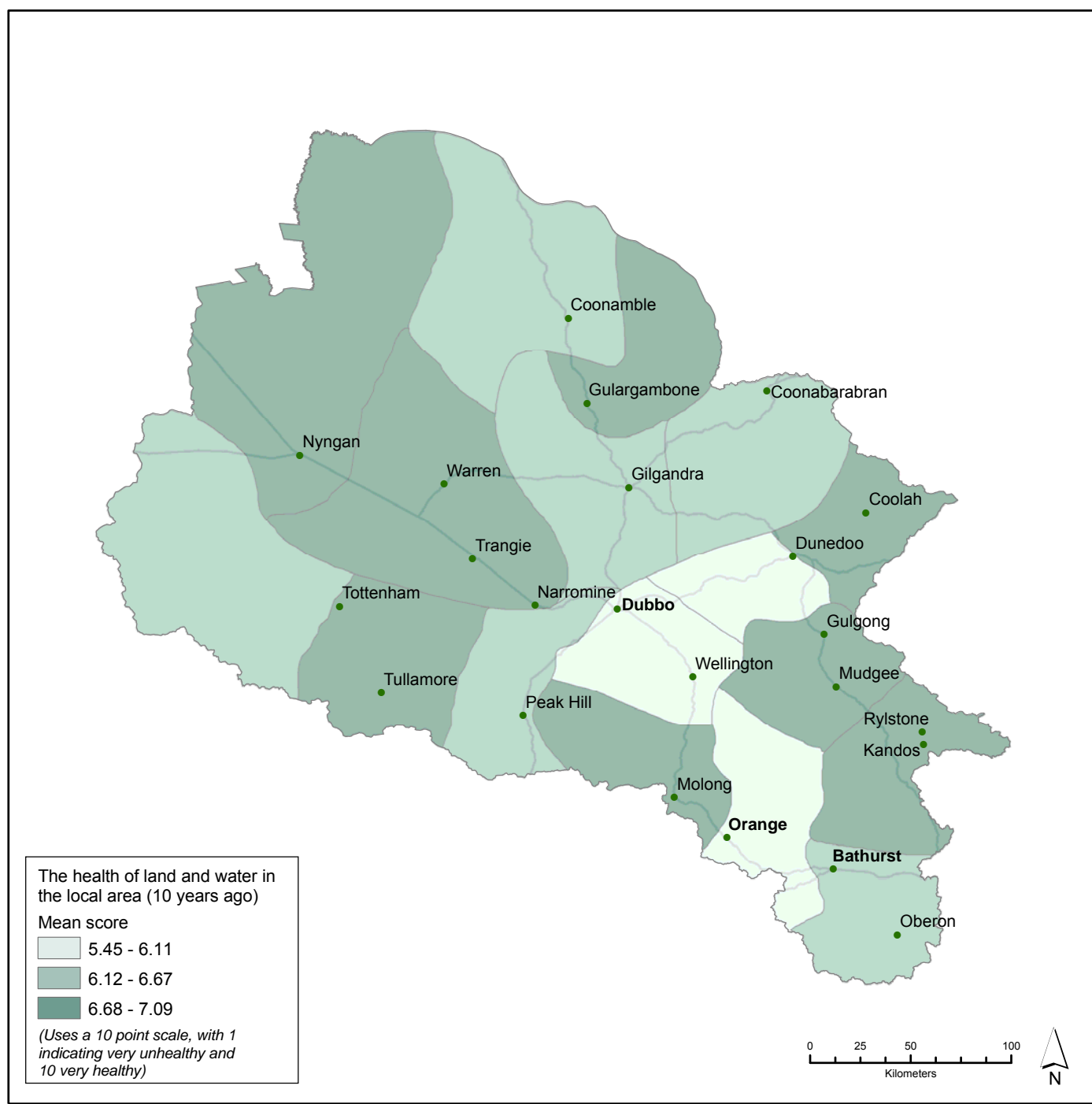
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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10. HEALTH OF THE LOCAL AREA (10 YEARS AGO)



Note: Based on the responses of landholders

The question stated: "Thinking back 10 years, and again on a scale from one (1) to ten (10) how would you have judged the health of the natural environment in your local area then?"

Projection: Geographics

Datum: GDA94

Date: October 2007

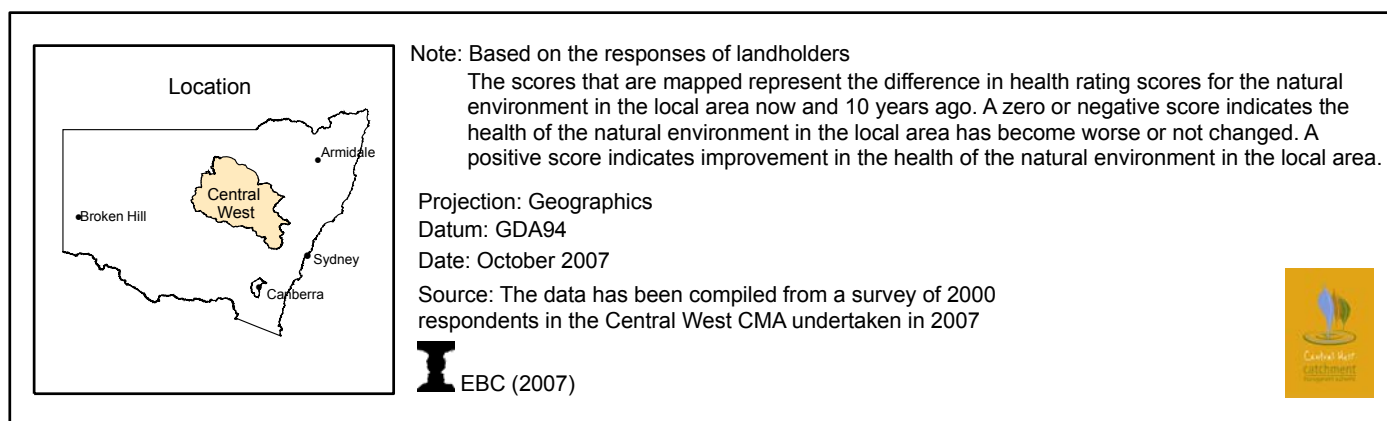
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



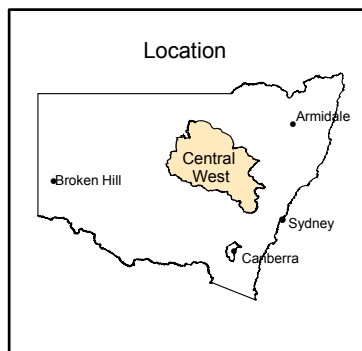
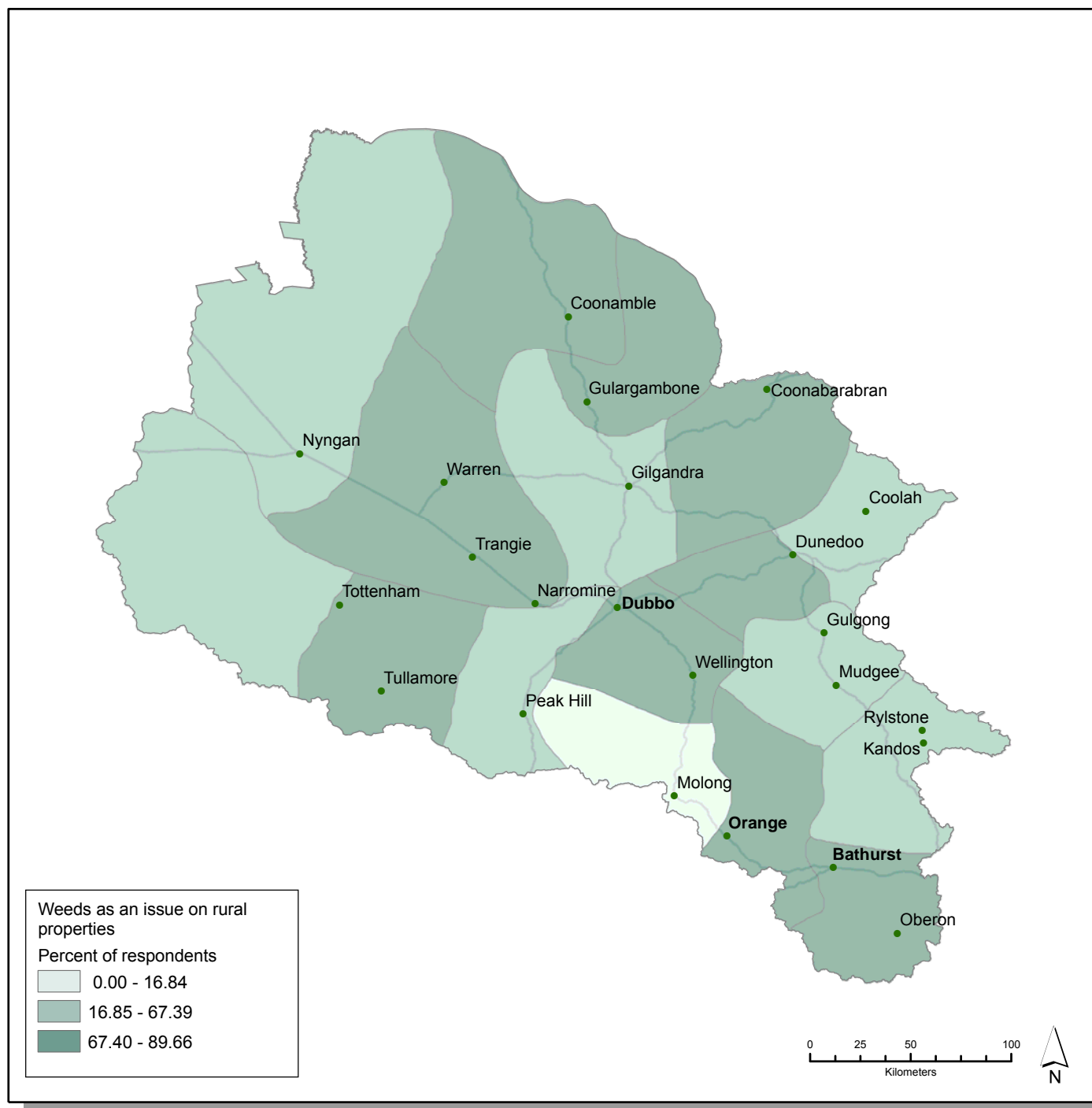
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11. CHANGE IN THE HEALTH OF THE LOCAL AREA



12. WEEDS ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?" [Weeds]

Projection: Geographics

Datum: GDA94

Date: October 2007

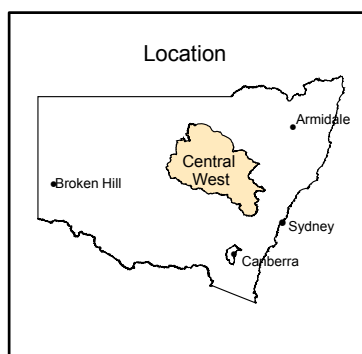
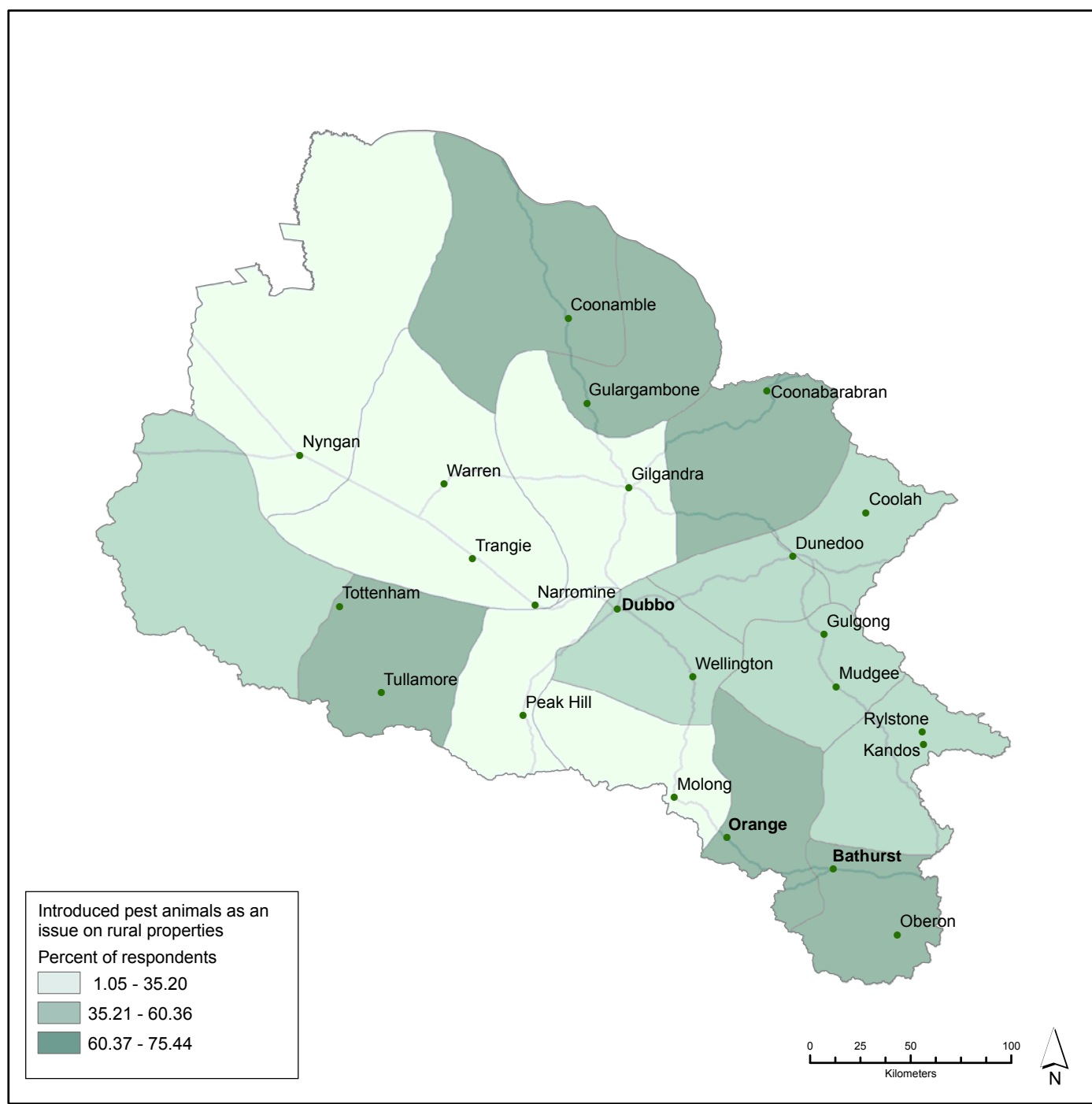
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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13. INTRODUCED PEST ANIMALS ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?"
[Introduced pest animals]

Projection: Geographics

Datum: GDA94

Date: October 2007

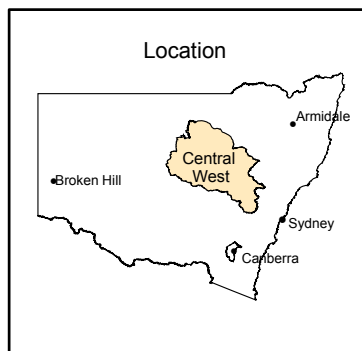
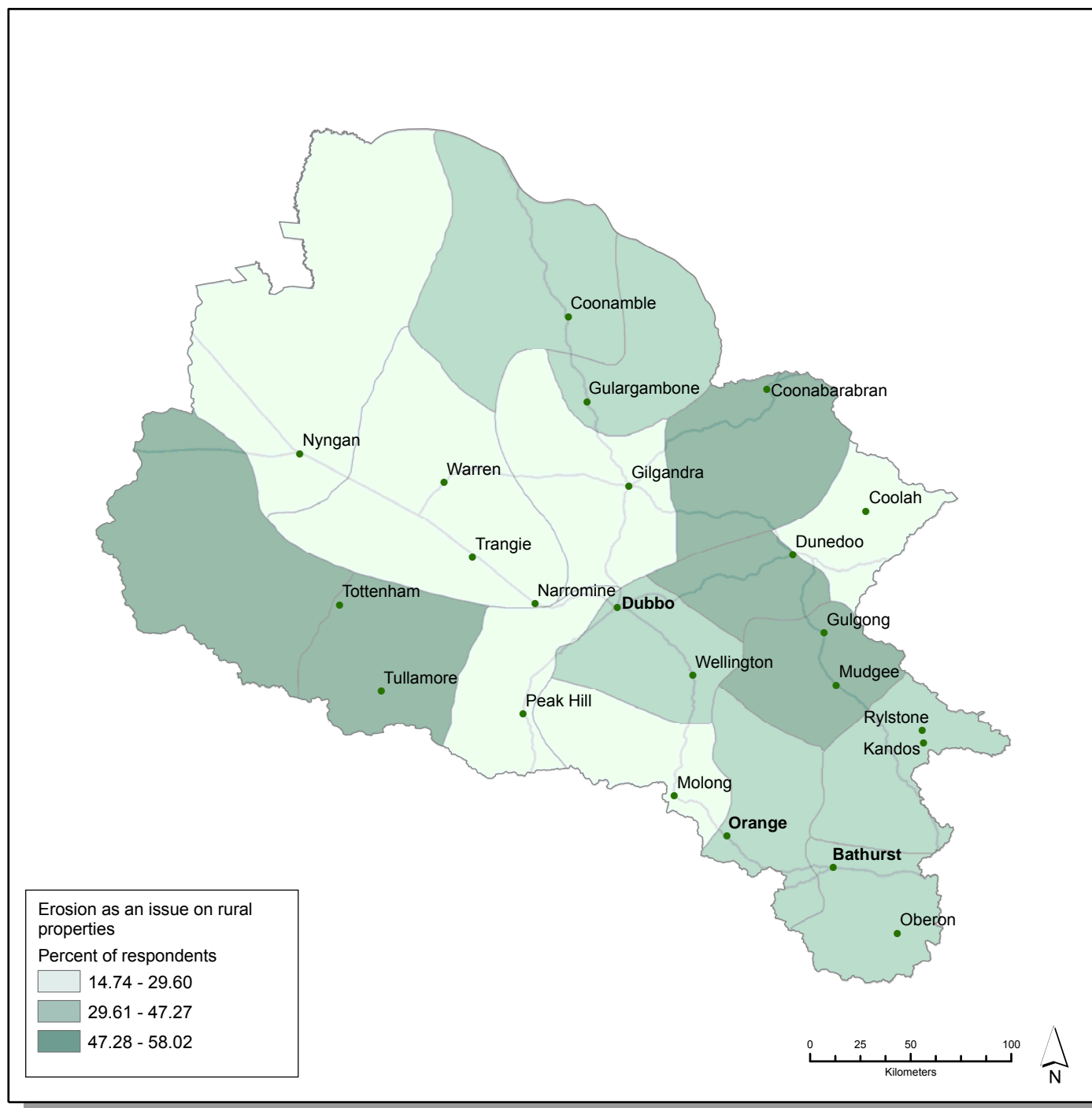
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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14. EROSION ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?"
[Erosion from wind and water]

Projection: Geographics

Datum: GDA94

Date: October 2007

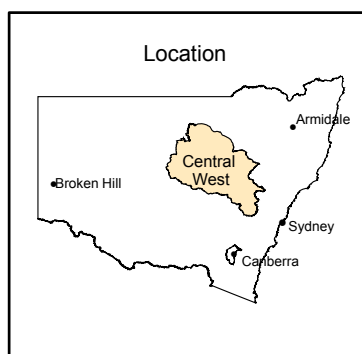
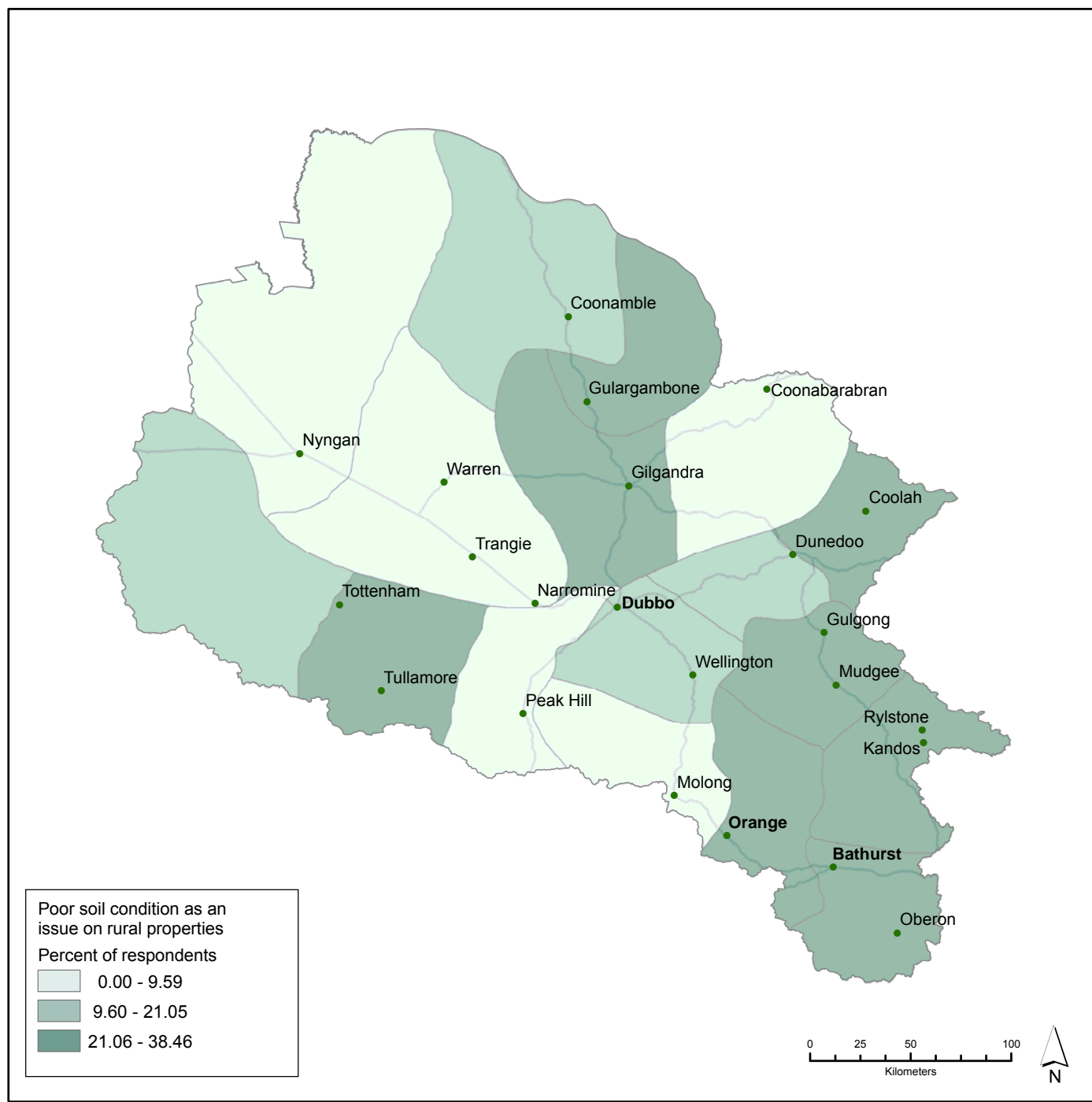
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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15. POOR SOIL CONDITION ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?"
[Poor soil condition]

Projection: Geographics

Datum: GDA94

Date: October 2007

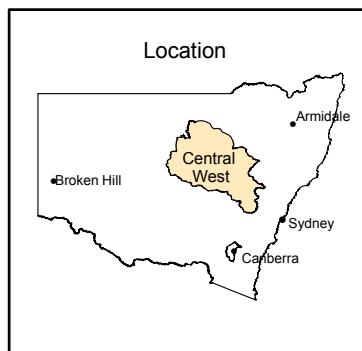
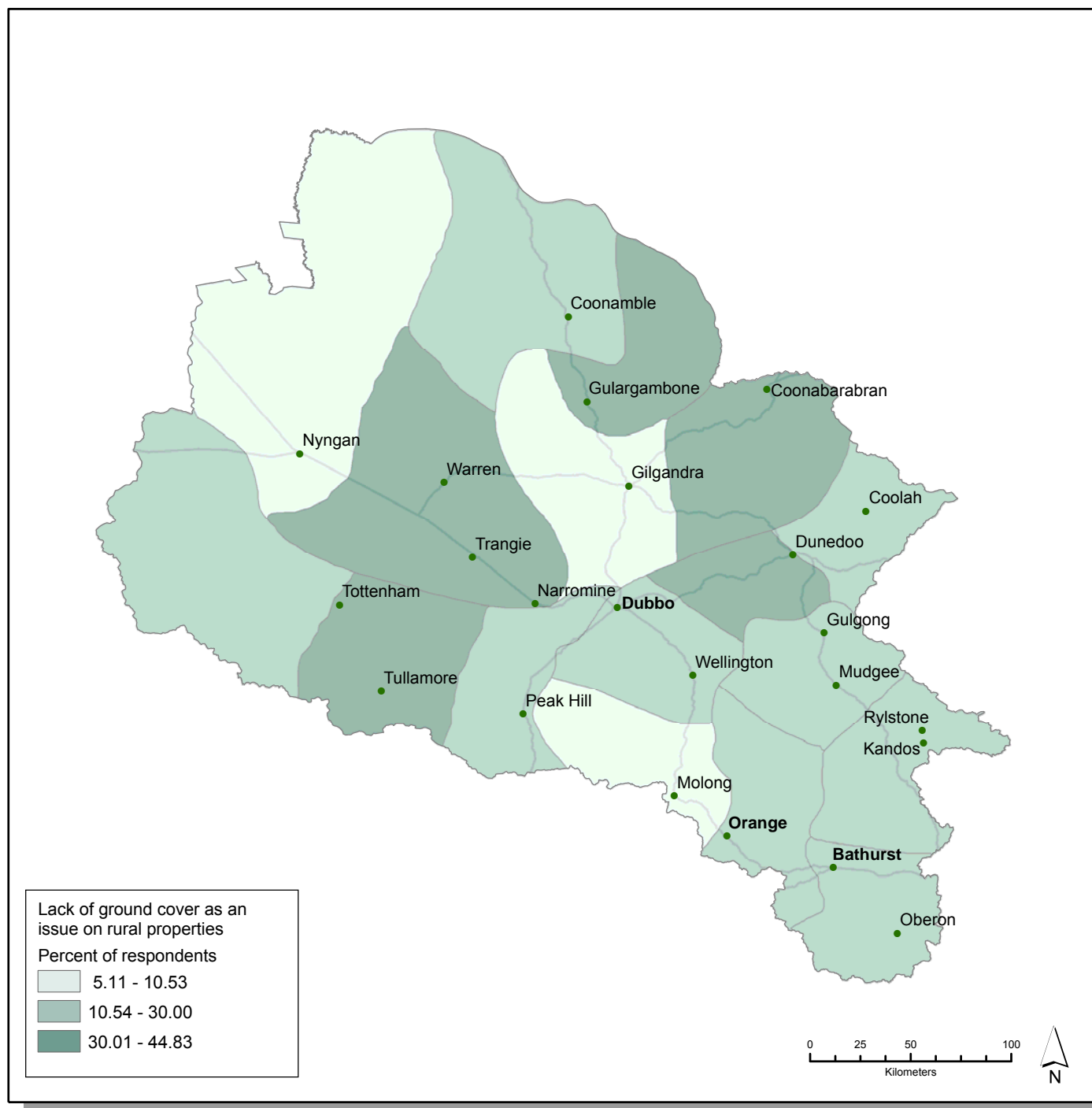
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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16. LACK OF GROUND COVER ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?"
[Lack of ground cover]

Projection: Geographics

Datum: GDA94

Date: October 2007

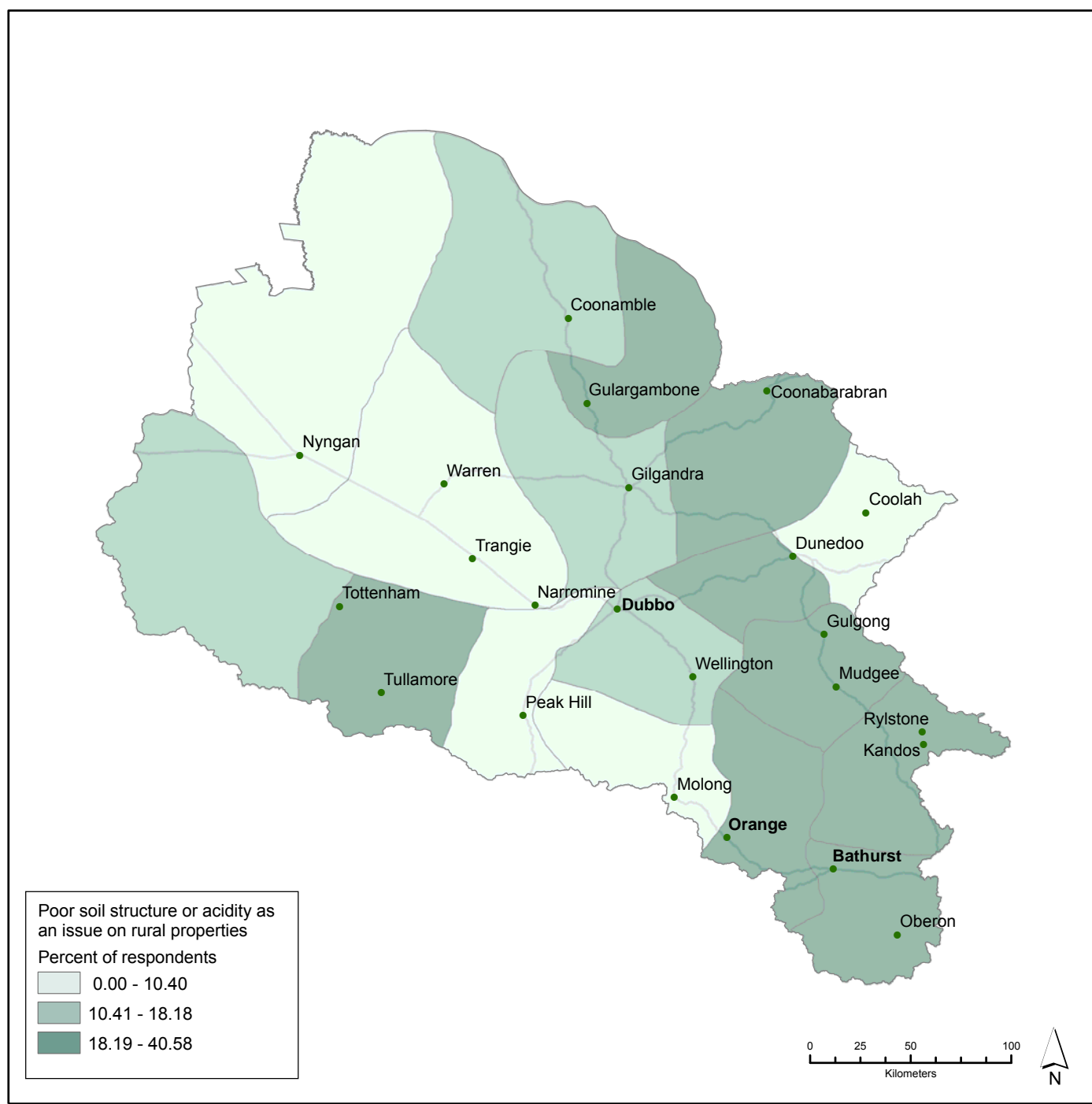
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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17. POOR SOIL STRUCTURE OR ACIDITY ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?"
{Poor soil structure or acidity}

Projection: Geographics

Datum: GDA94

Date: October 2007

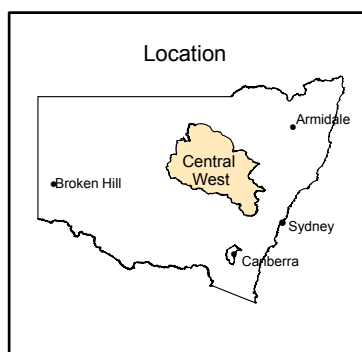
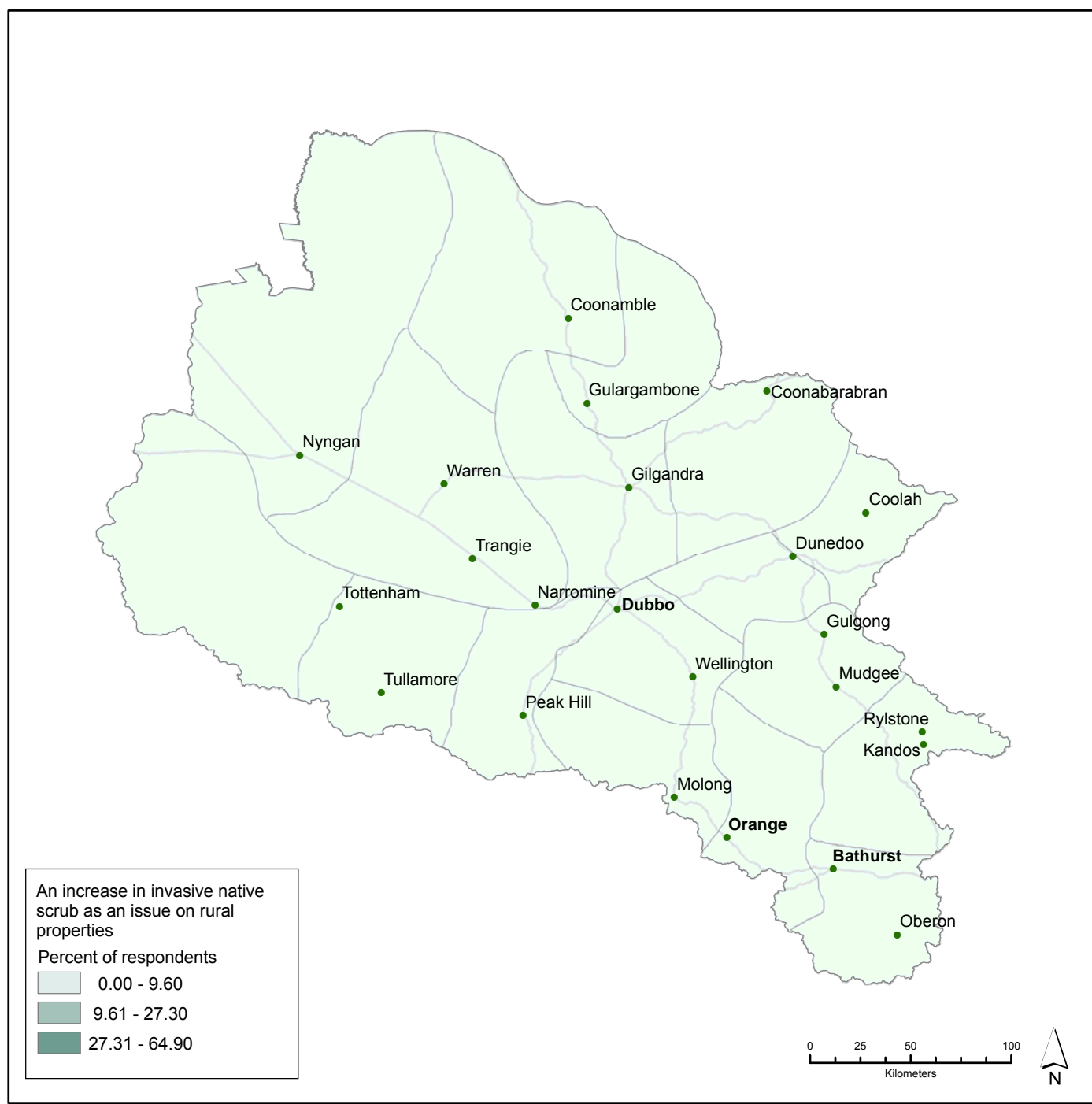
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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18. INVASIVE NATIVE SCRUB ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?"
[Increase in invasive native scrub]

Projection: Geographics

Datum: GDA94

Date: October 2007

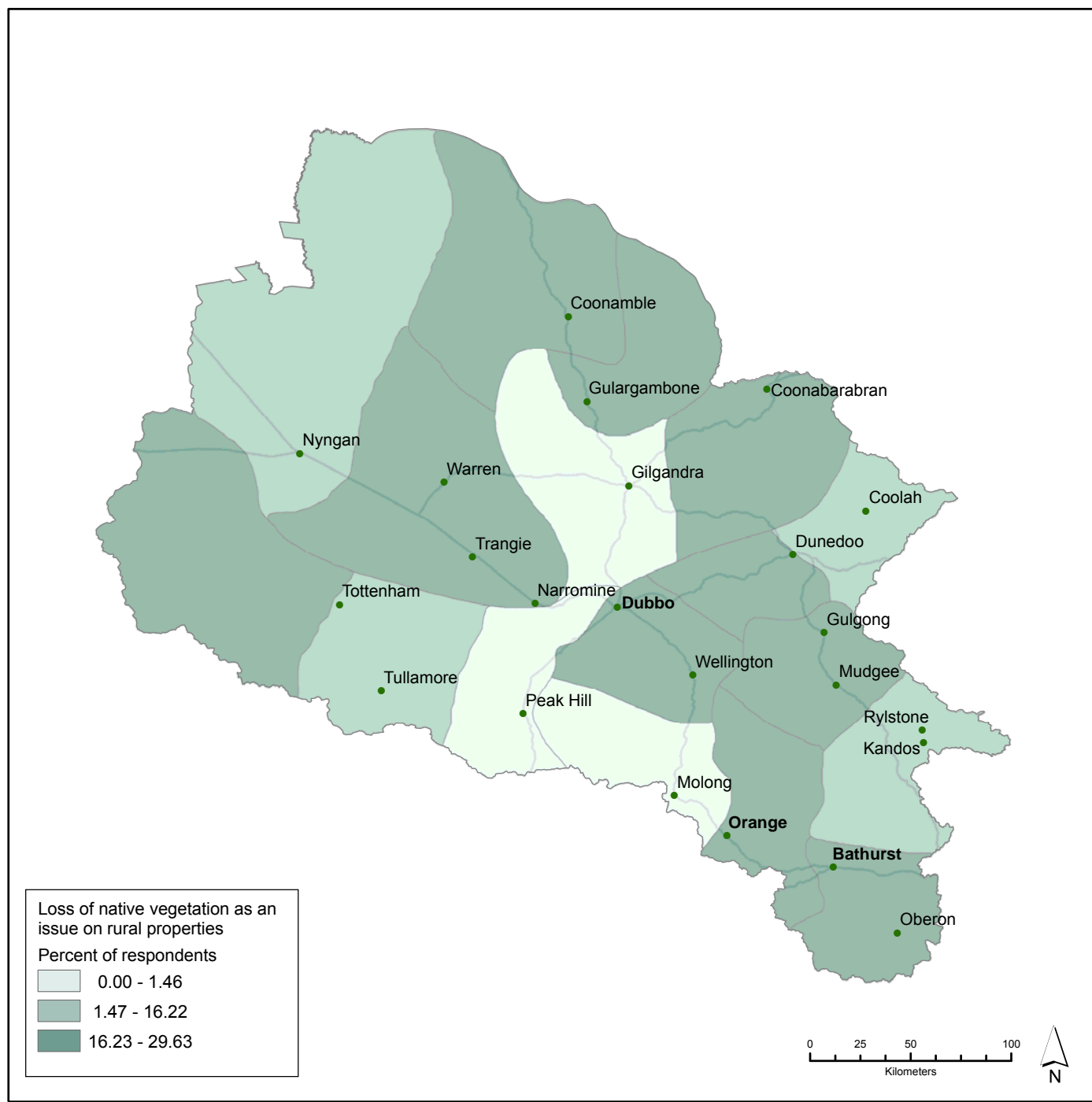
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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19. LOSS OF NATIVE VEGETATION ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?"
[Loss of native vegetation or habitat]

Projection: Geographics

Datum: GDA94

Date: October 2007

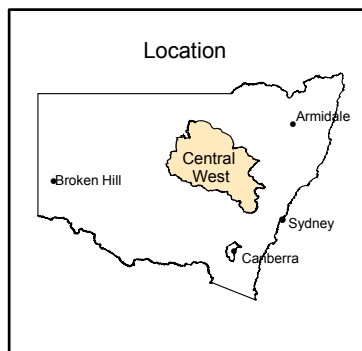
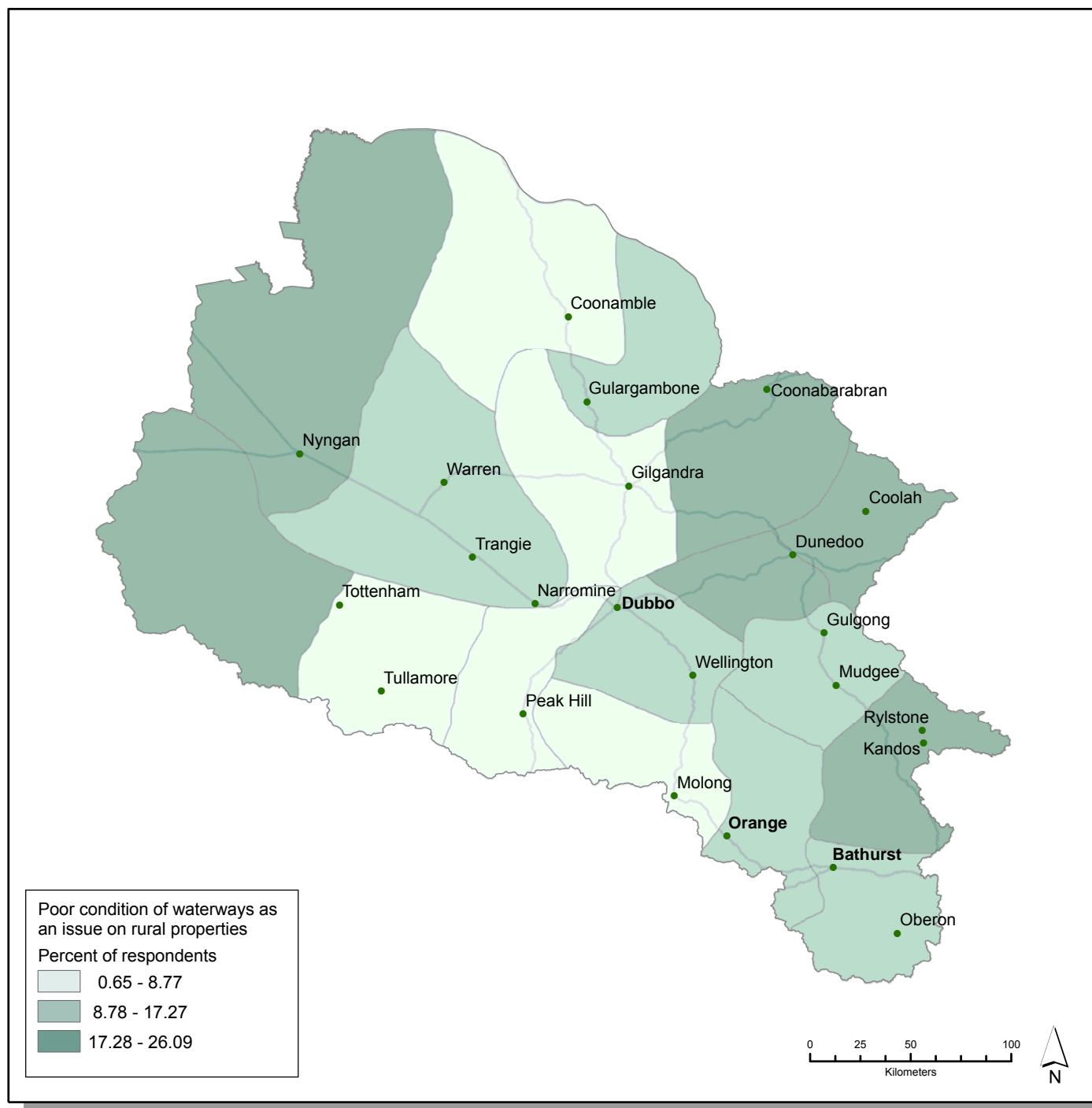
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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20. POOR CONDITION OF WATERWAYS ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?"
[Poor condition of waterways]

Projection: Geographics

Datum: GDA94

Date: October 2007

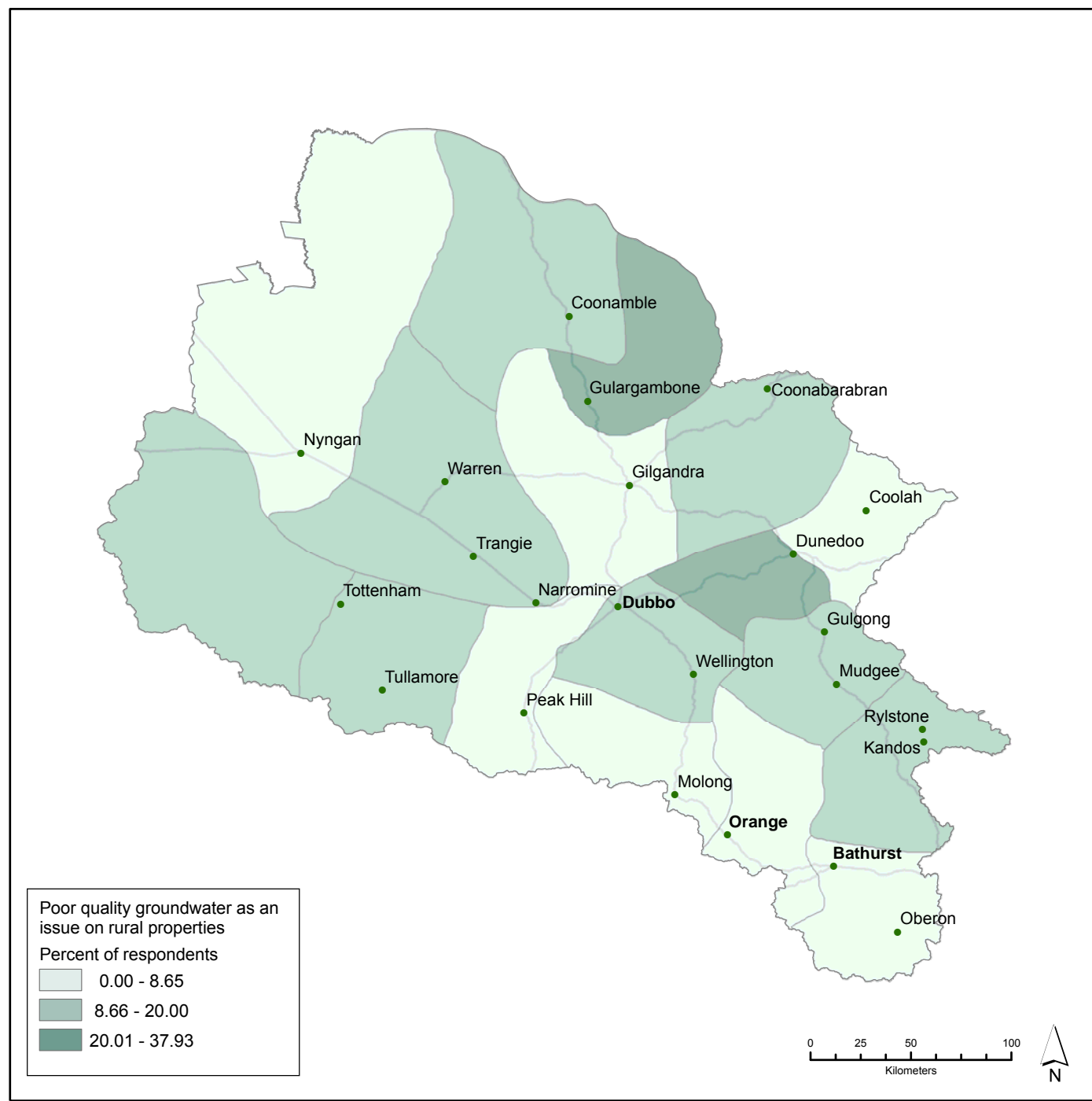
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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21. POOR QUALITY GROUNDWATER ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?"
{Poor quality groundwater}

Projection: Geographics

Datum: GDA94

Date: October 2007

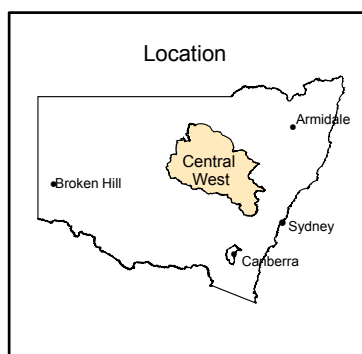
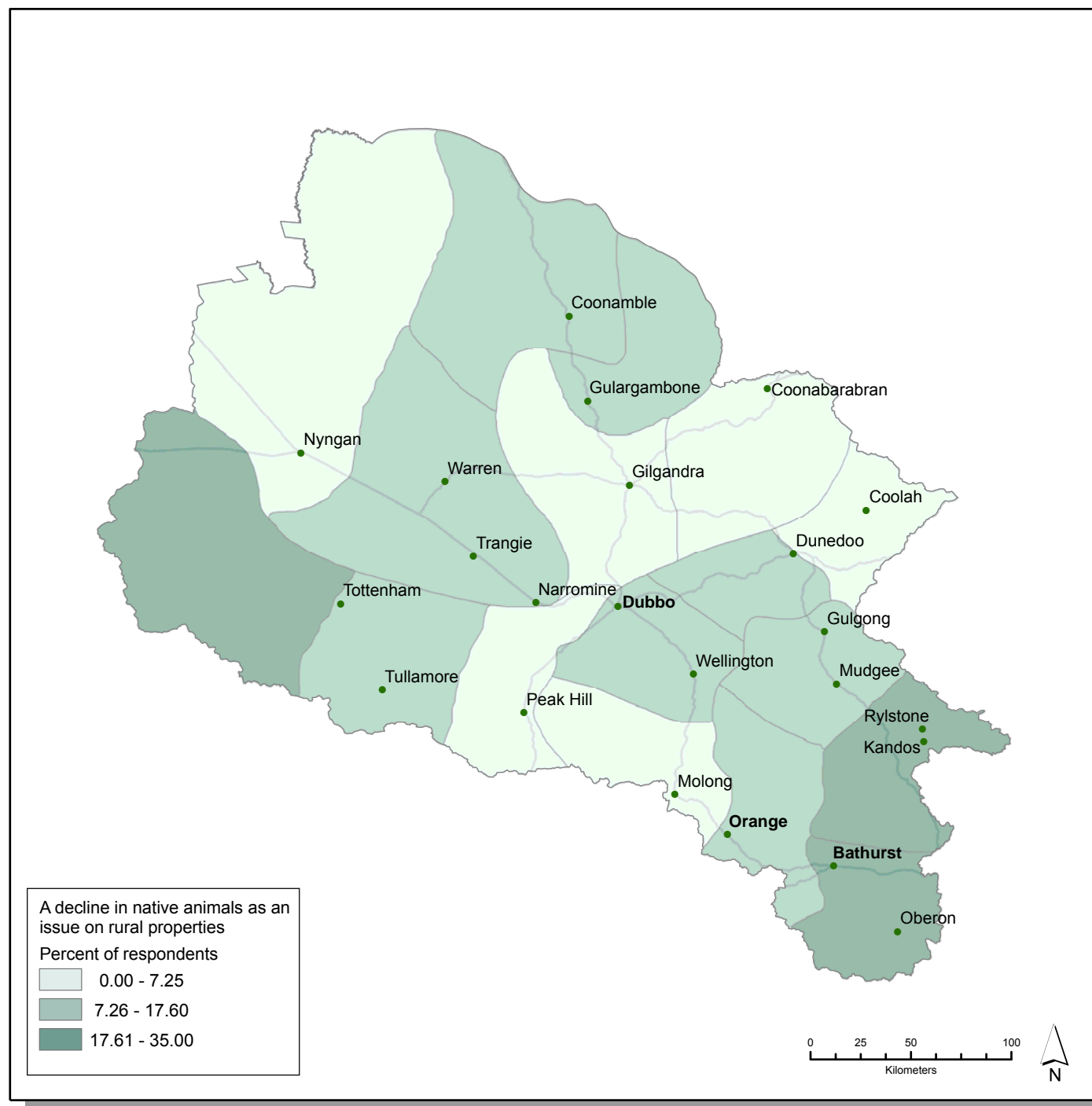
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



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22. DECLINE IN NATIVE ANIMALS ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?"
[A decline in native animals]

Projection: Geographics

Datum: GDA94

Date: October 2007

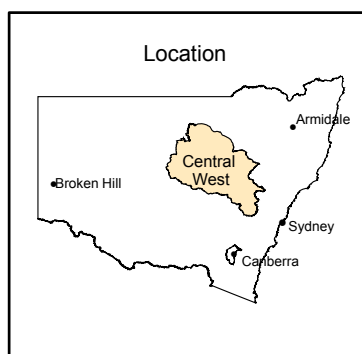
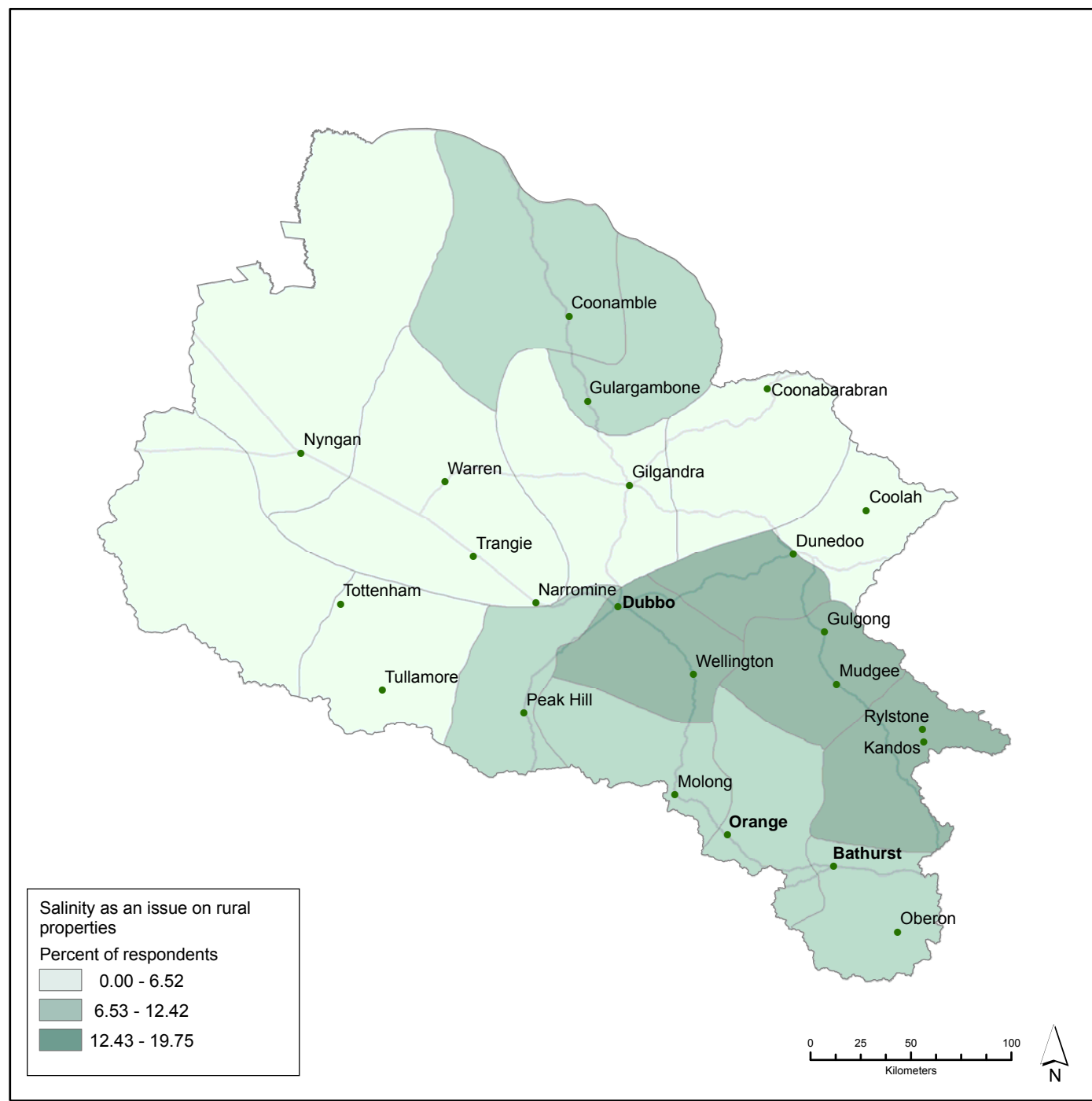
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



23. SALINITY ON RURAL PROPERTIES



Note: Based on the responses of landholders

The question stated: "I am going to read out a list of possible problems people have on their land. As I read out the list could you tell me if it occurs on your land?" [Salinity]

Projection: Geographics

Datum: GDA94

Date: October 2007

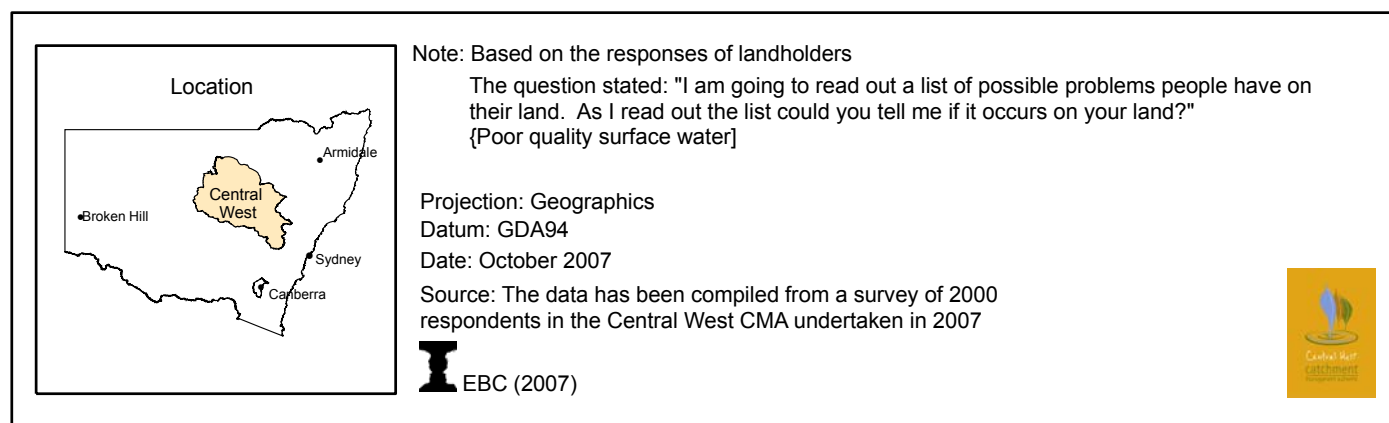
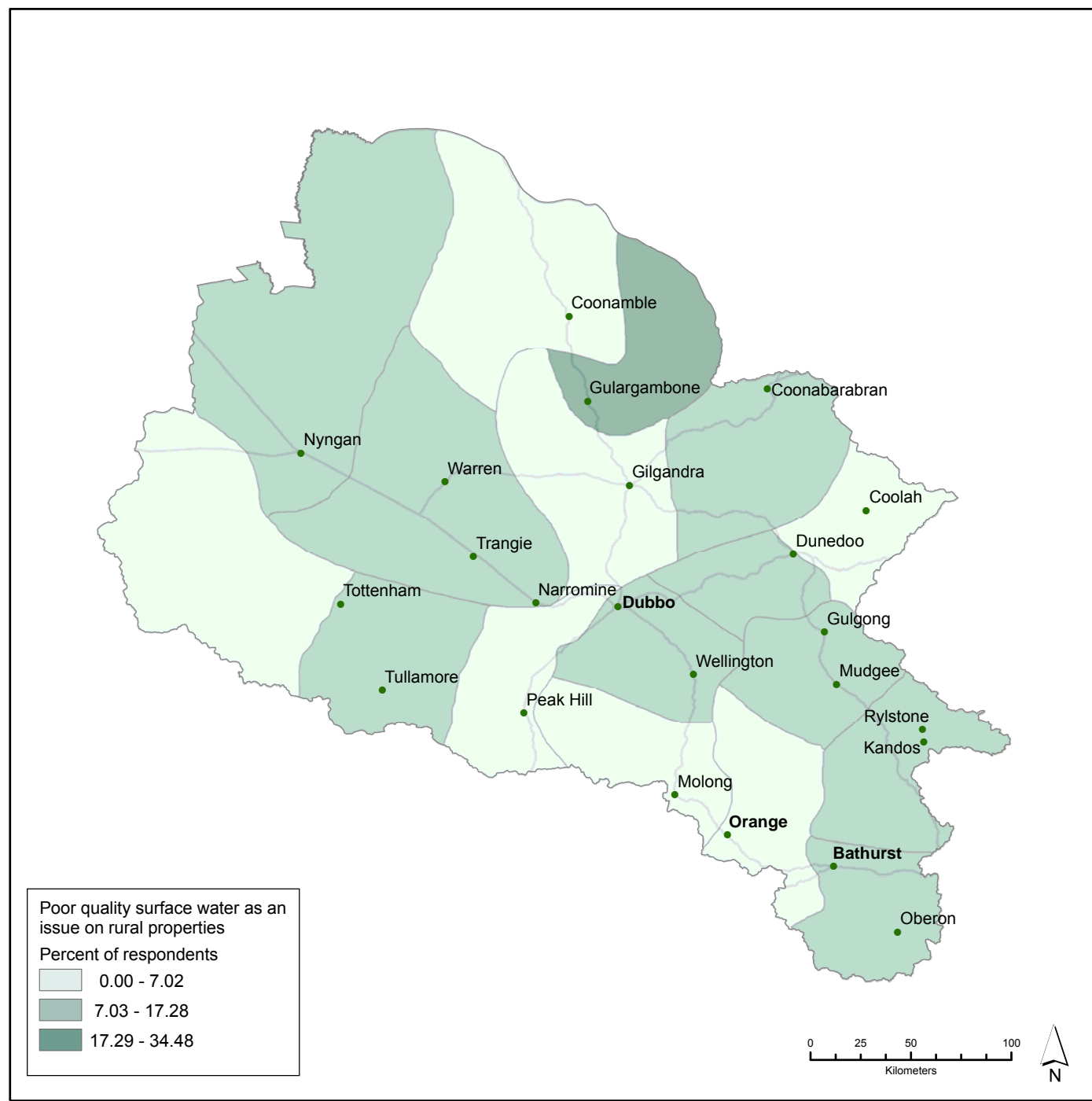
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



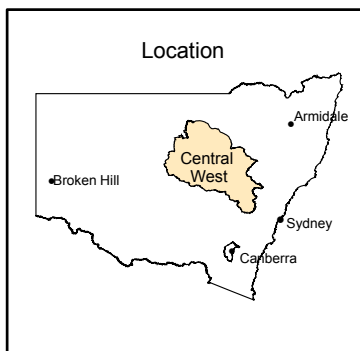
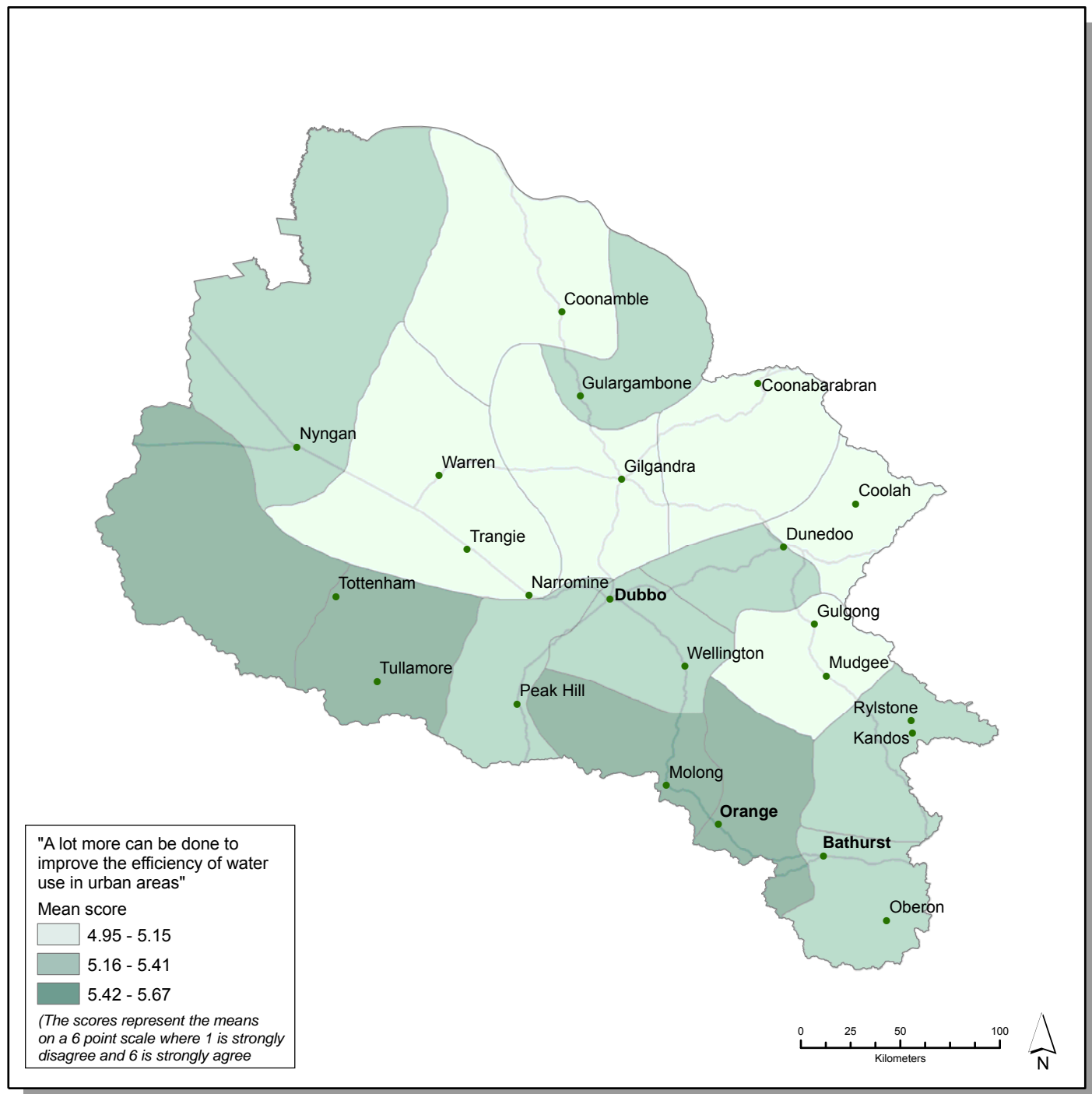
EBC (2007)



24. POOR QUALITY SURFACE WATER ON RURAL PROPERTIES



25. WATER EFFICIENCY AND USE IN URBAN AREAS



Note: Based on the responses of landholders

The question stated: "A lot more can be done to improve the efficiency of water use in urban areas". Responses were from (1) strongly disagree to (6) strongly agree.

Projection: Geographics

Datum: GDA94

Date: October 2007

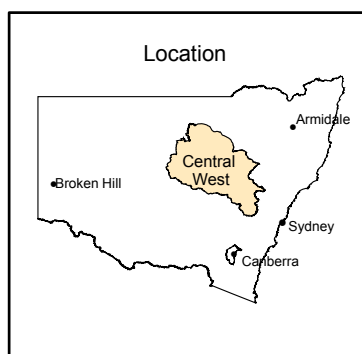
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



26. WATER EFFICIENCY AND USE ON FARMS



Note: Based on the responses of landholders

The question stated: "A lot more can be done to improve the efficiency of water use on most farms." Responses were from (1) strongly disagree to (6) strongly agree.

Projection: Geographics

Datum: GDA94

Date: October 2007

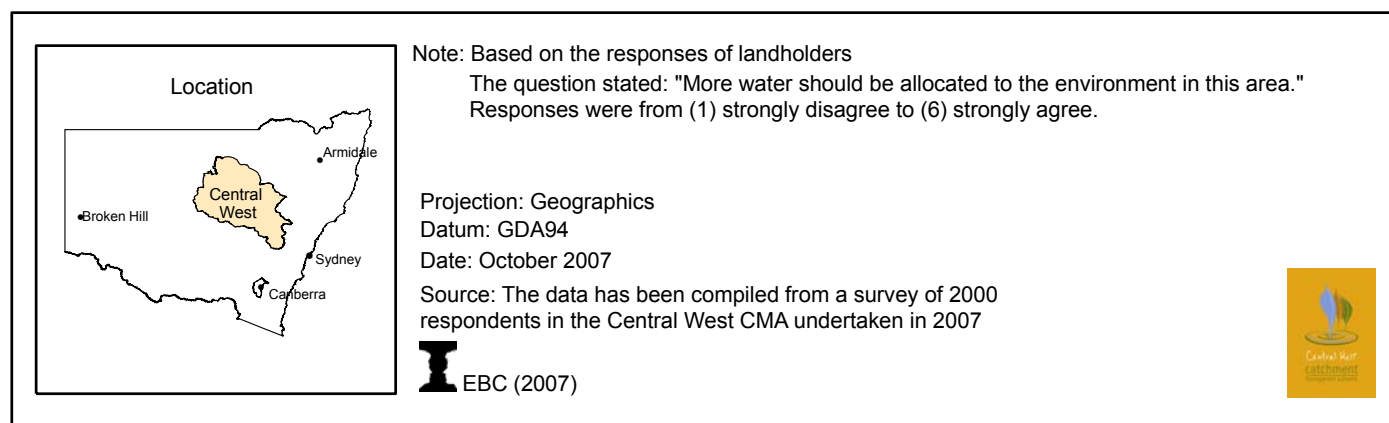
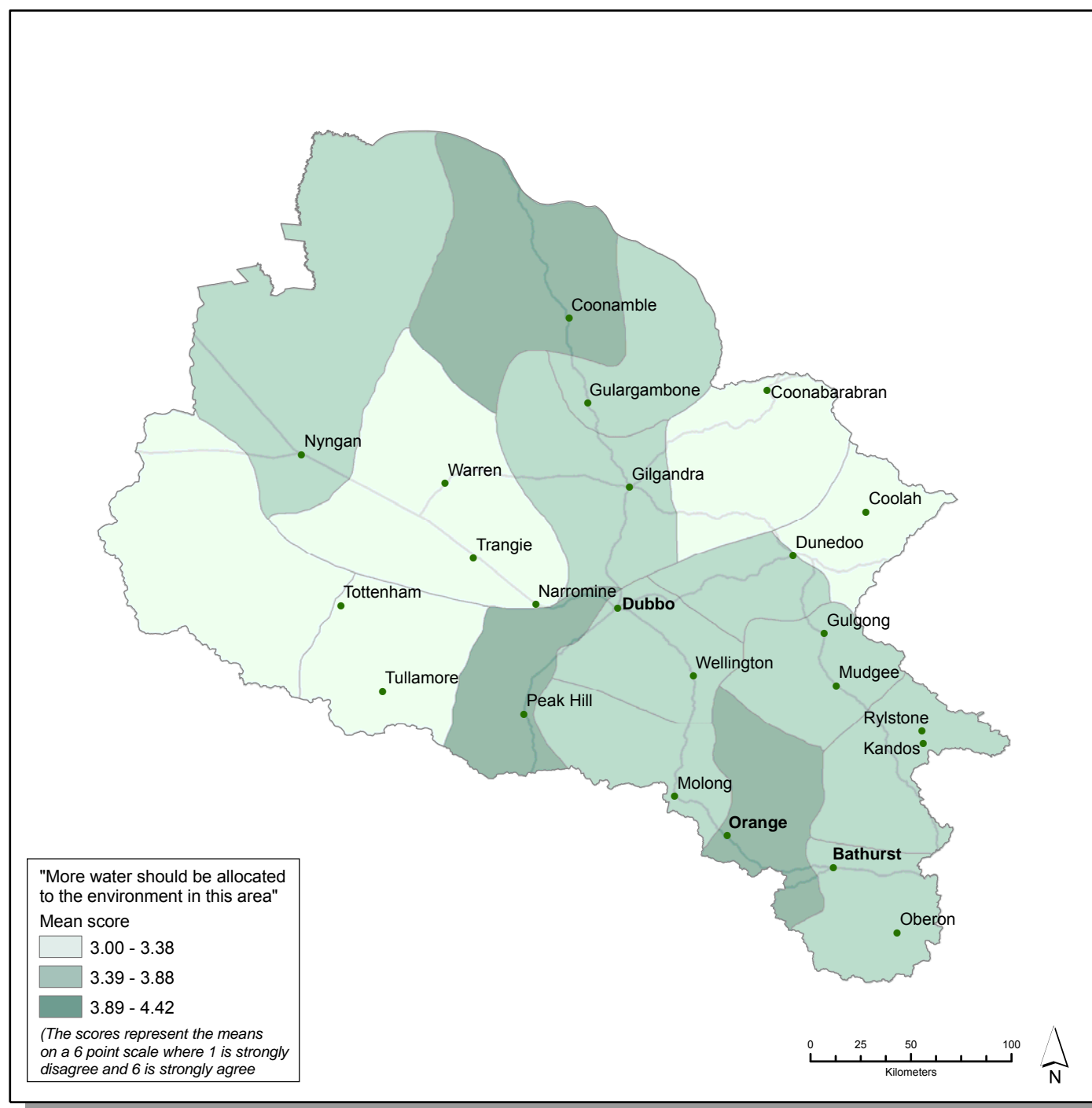
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



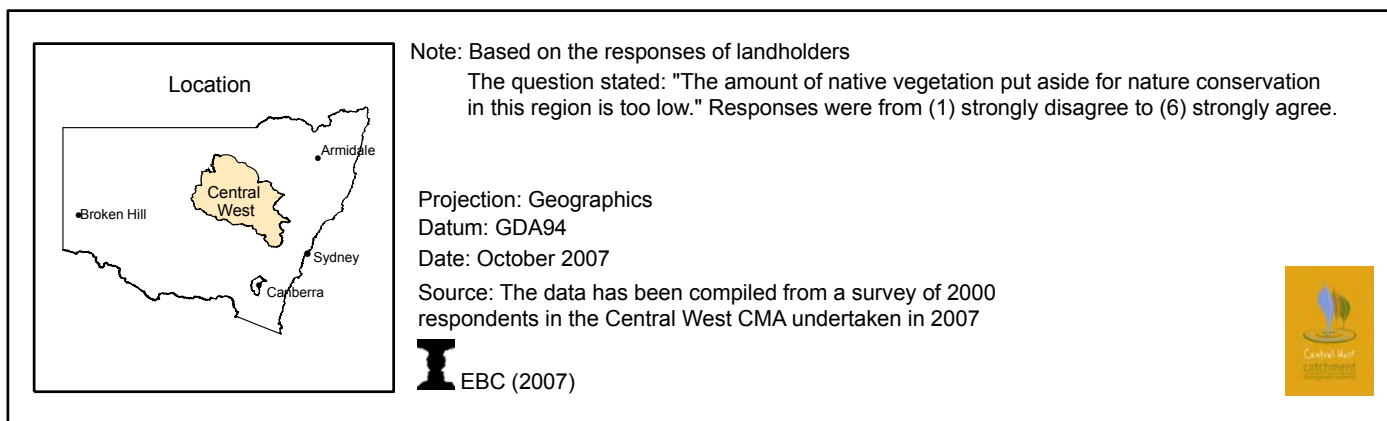
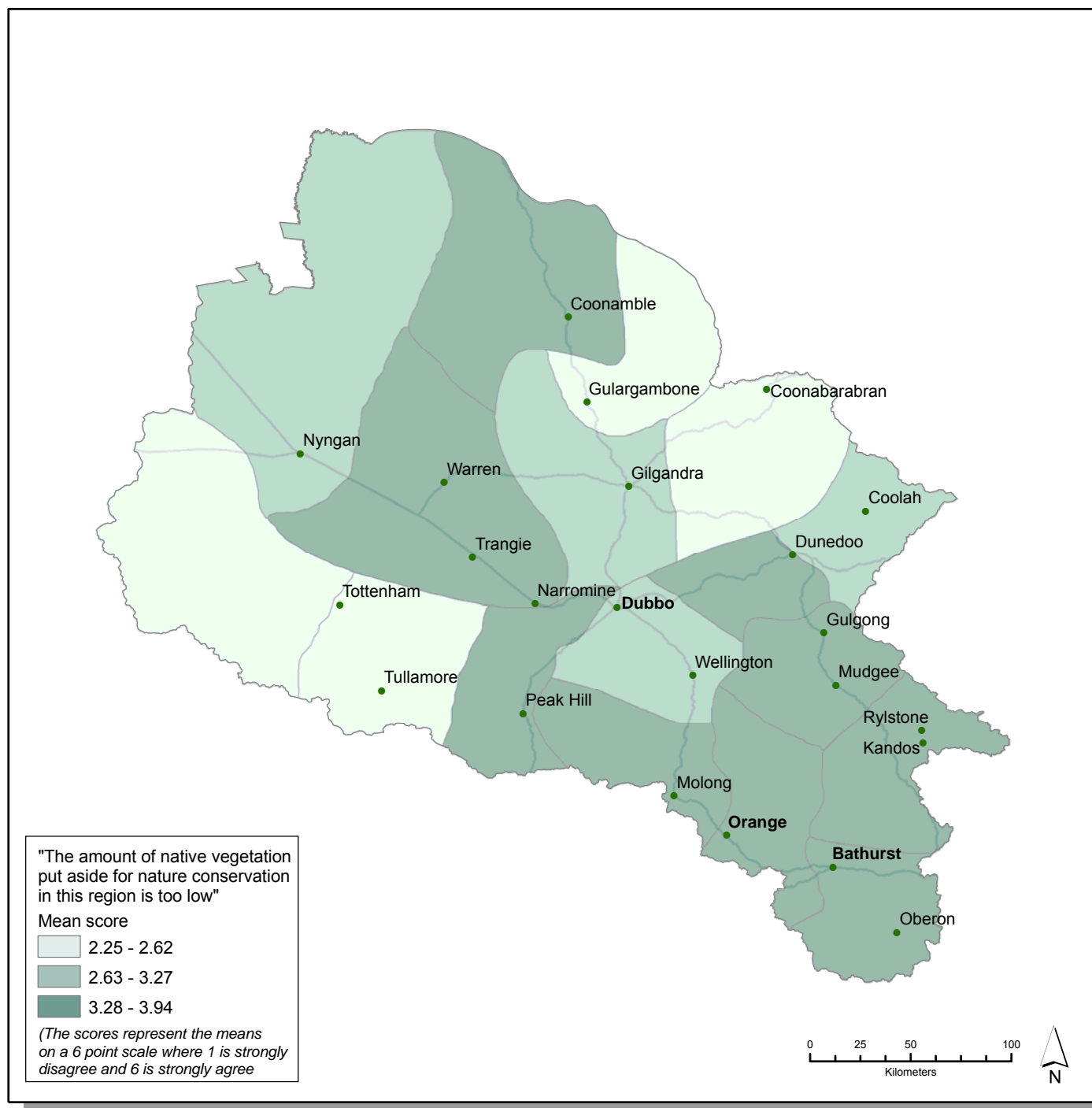
EBC (2007)



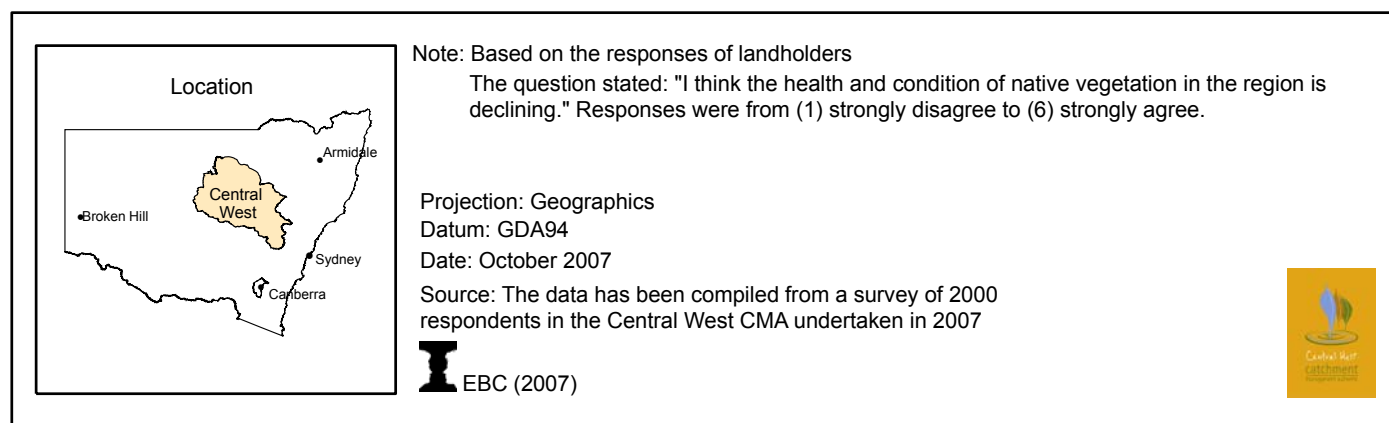
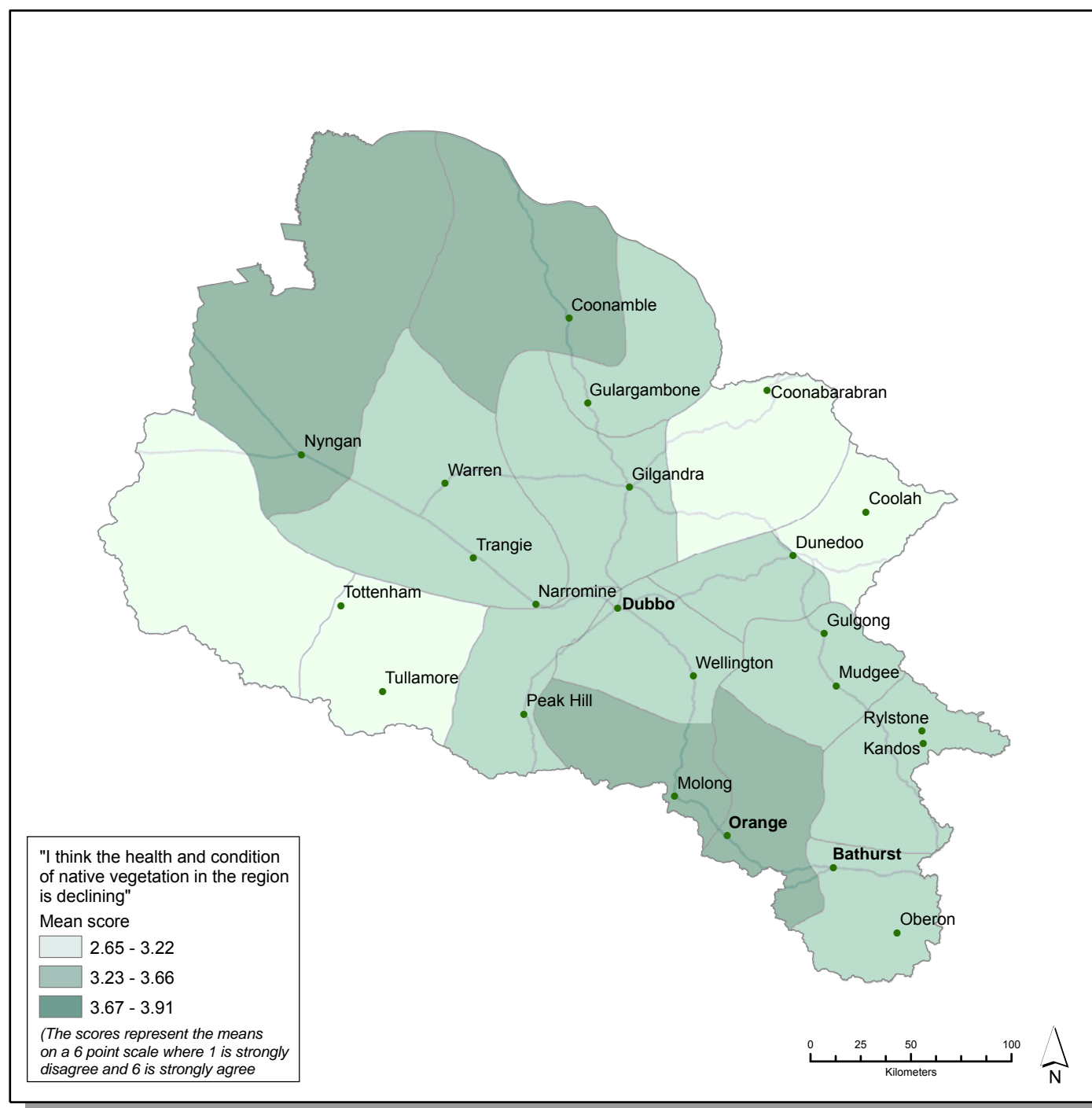
27. ALLOCATING WATER TO THE ENVIRONMENT



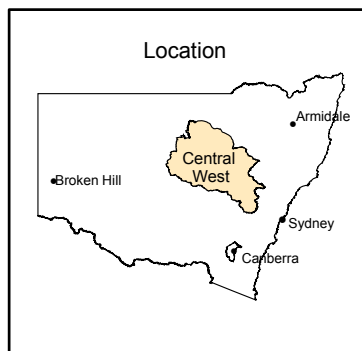
28. CONSERVATION OF NATIVE VEGETATION



29. THE HEALTH OF NATIVE VEGETATION



30. KNOWLEDGE OF BIODIVERSITY



Note: Based on the responses of landholders

The question stated: "I have a good understanding of what is meant by biodiversity."
Responses were from (1) strongly disagree to (6) strongly agree.

Projection: Geographics

Datum: GDA94

Date: October 2007

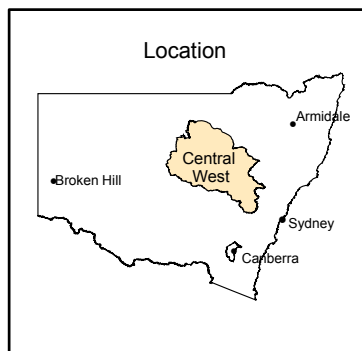
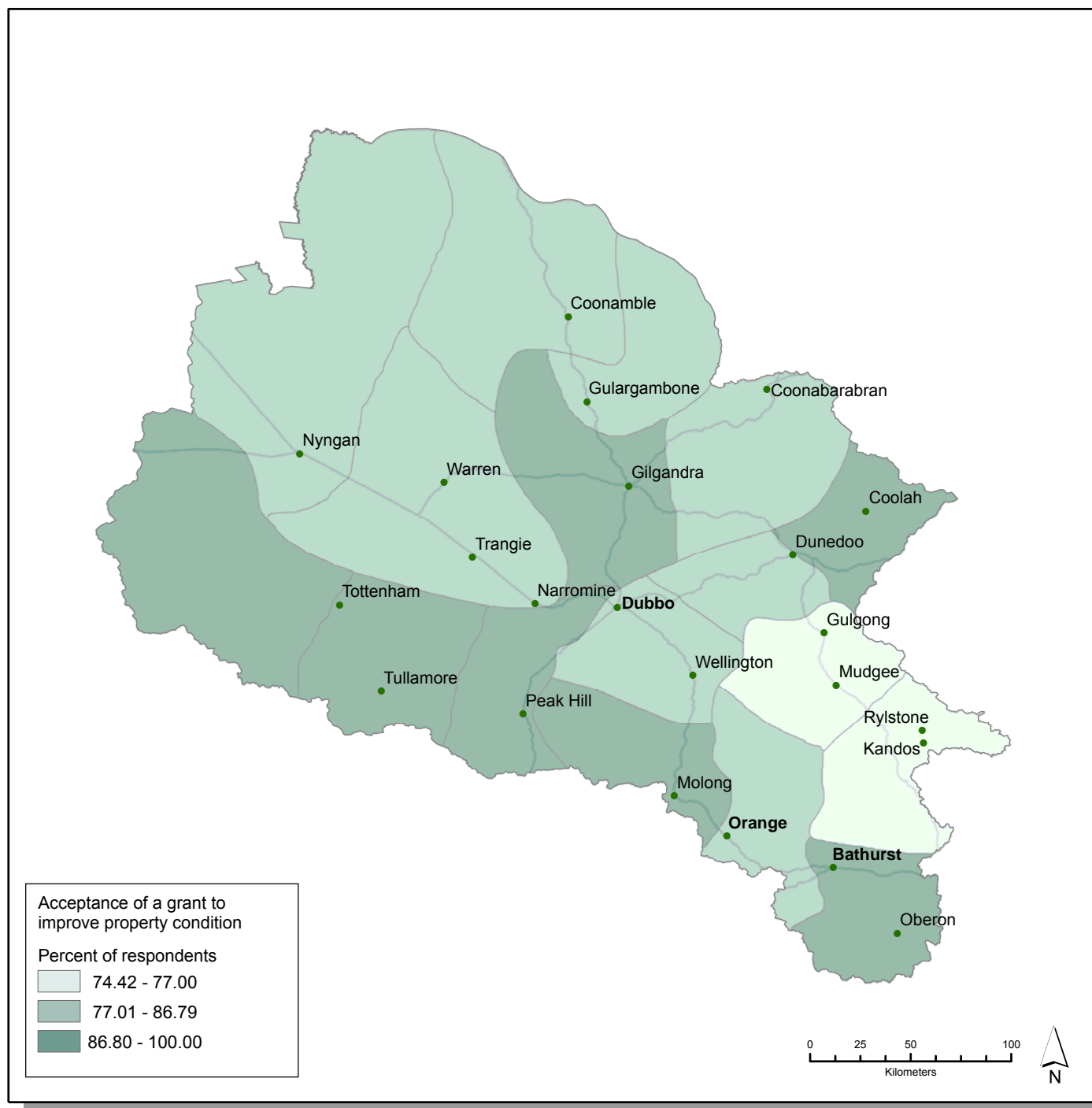
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



31. ACCEPTING A GRANT TO IMPROVE PROPERTY CONDITION



Note: Based on the responses of landholders

The question stated: "If you were given the opportunity to apply for funds to obtain a grant, which you didn't have to repay, to improve the condition of your property would you take up the grant?"

Projection: Geographics

Datum: GDA94

Date: October 2007

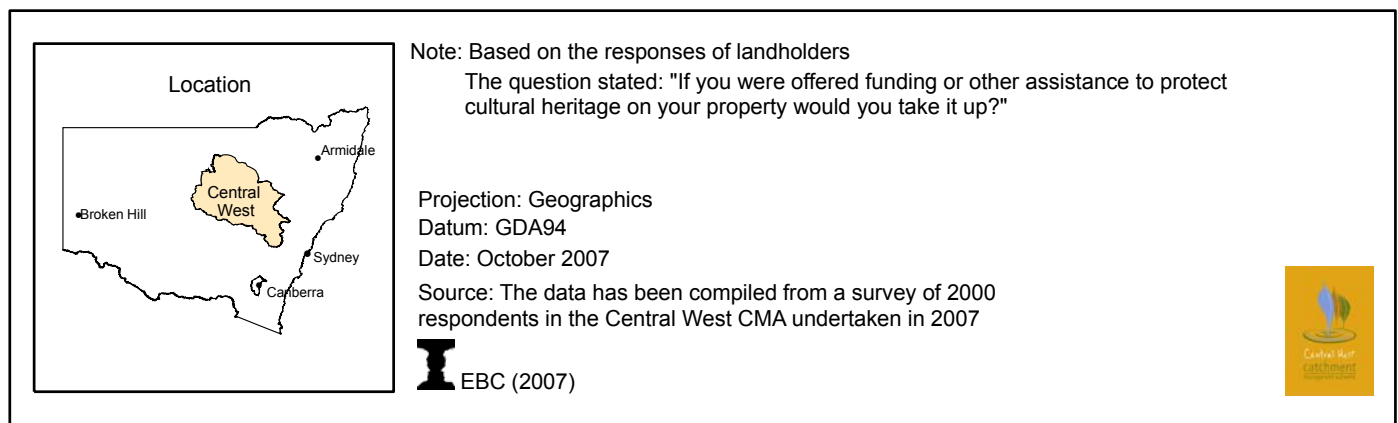
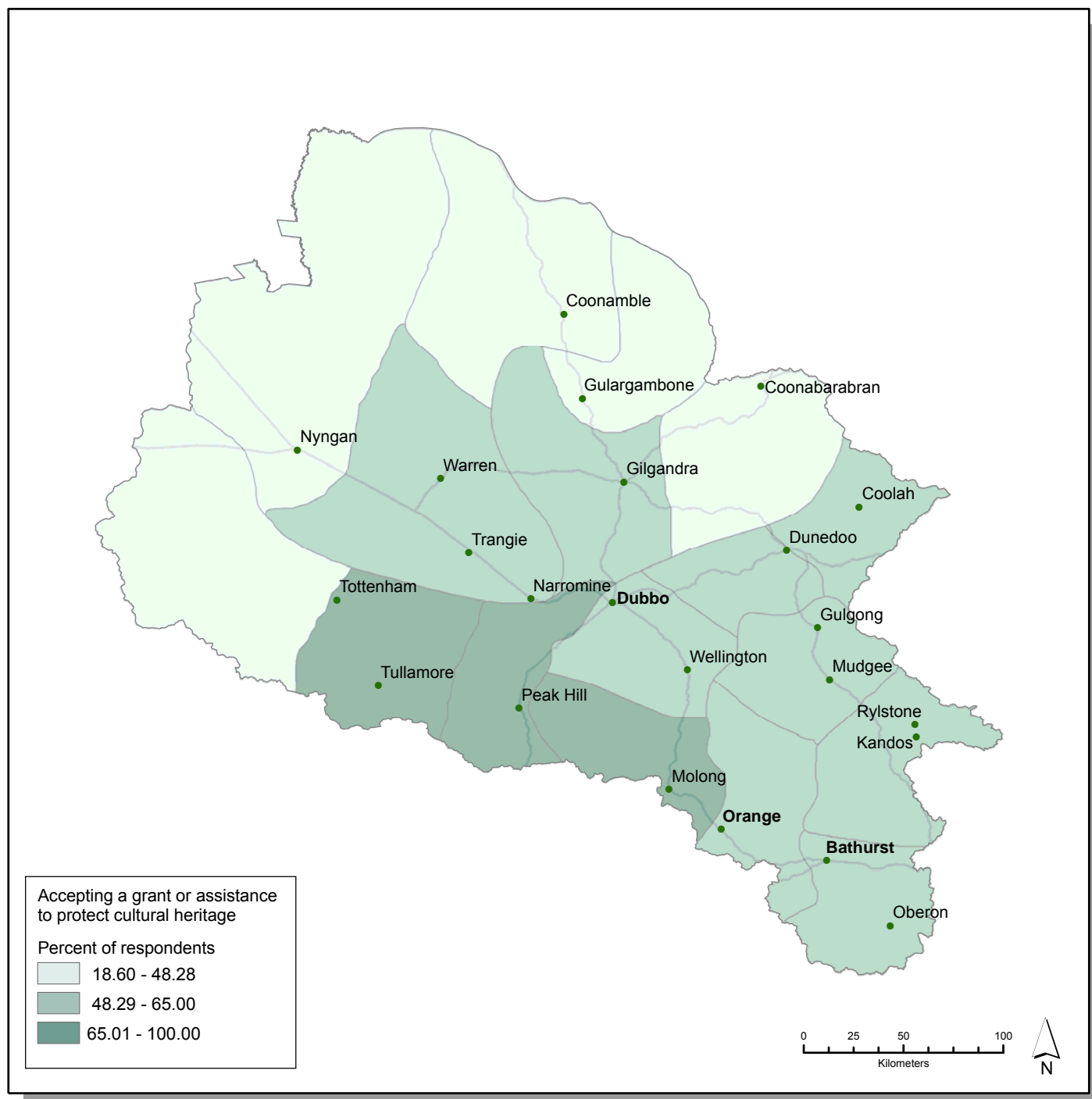
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



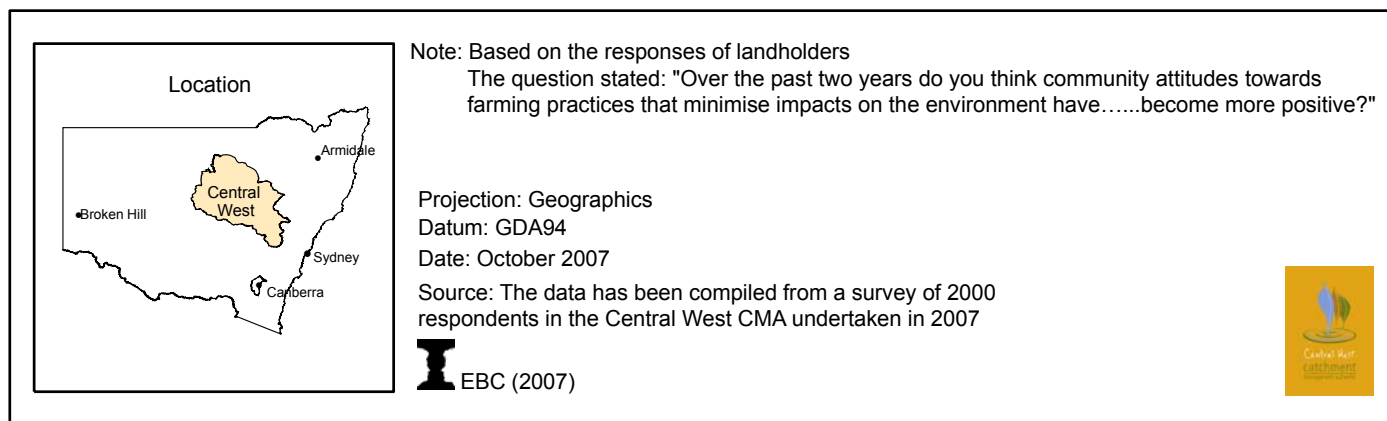
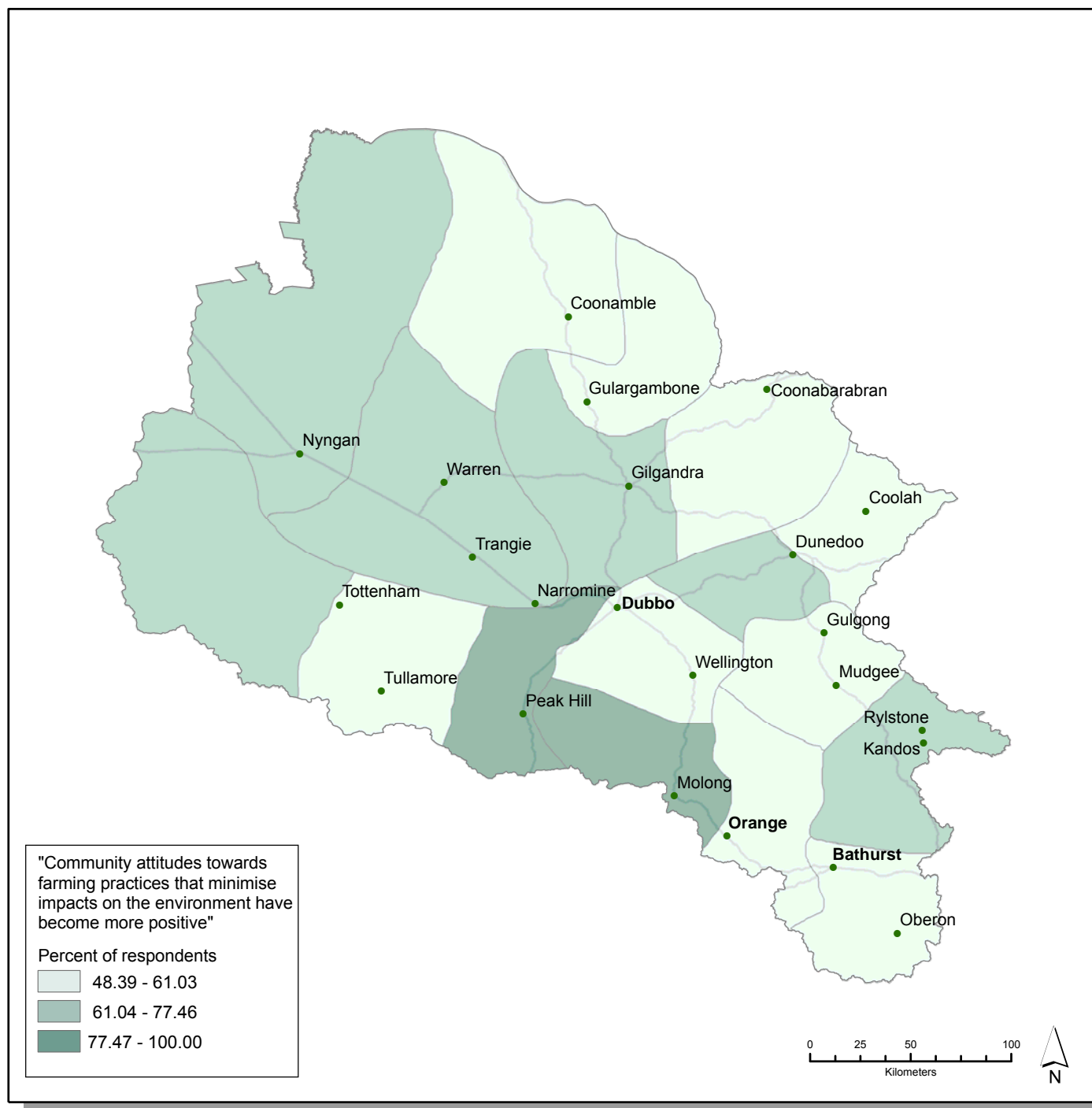
EBC (2007)



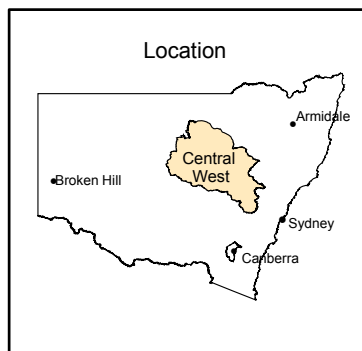
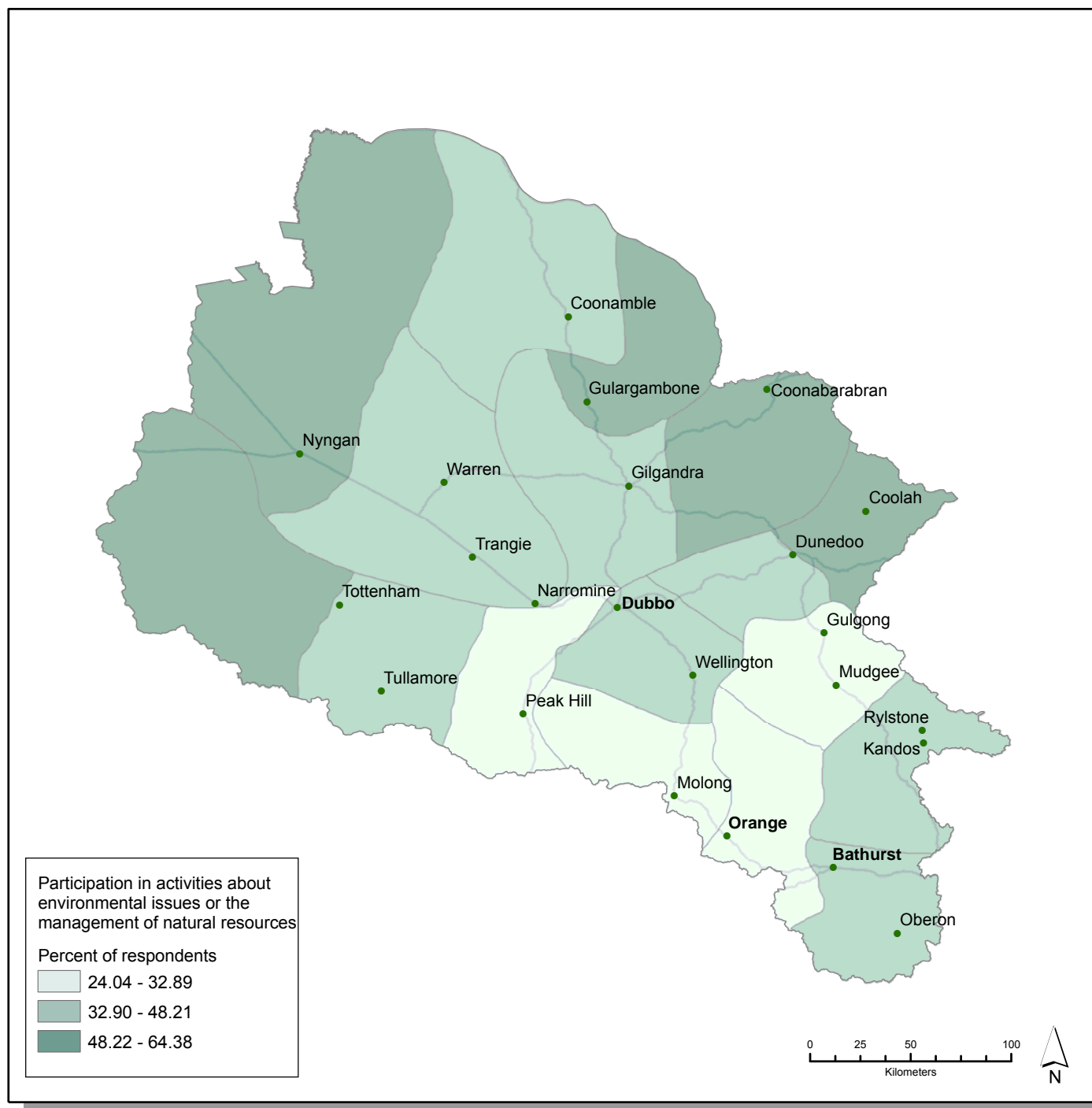
32. GRANTS OR ASSISTANCE TO PROTECT CULTURAL HERITAGE



33. COMMUNITY ATTITUDES TOWARDS FARMING PRACTICES



34. PARTICIPATION IN ORGANISED NRM ACTIVITIES



Note: Based on the responses of landholders

The question stated: "In the last two years have you participated in any organised meetings or activities about environmental issues or the management of natural resources in your local area, such as Landcare?"

Projection: Geographics

Datum: GDA94

Date: October 2007

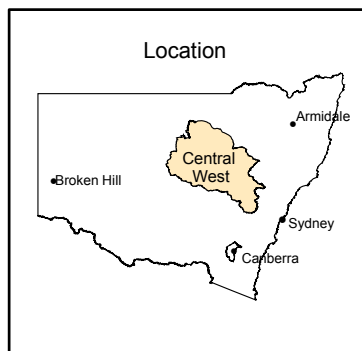
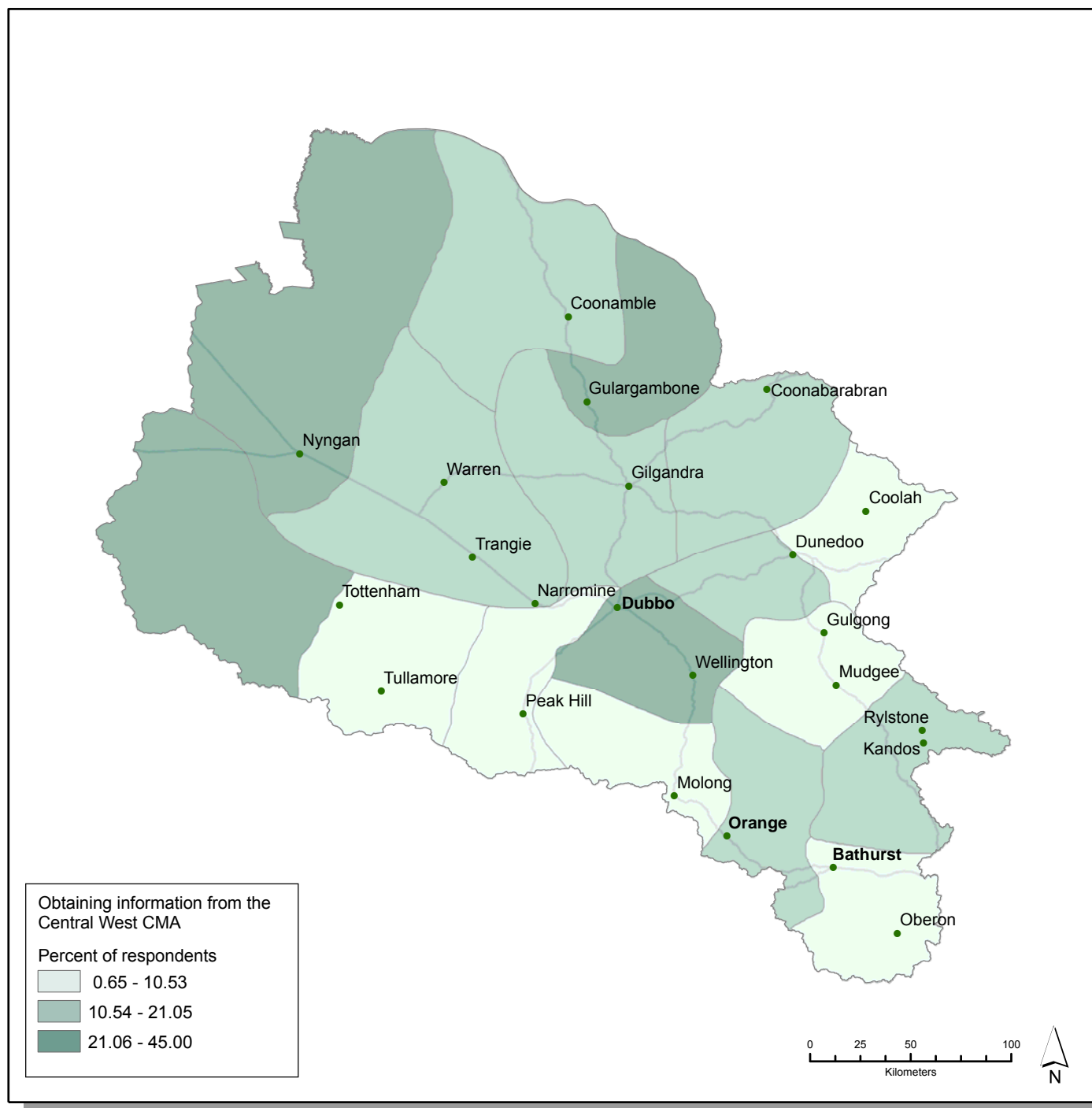
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



35. OBTAINING INFORMATION FROM THE CENTRAL WEST CMA



Note: Based on the responses of landholders

The question stated: "If you wanted to know something about an environmental issue on your land or in your local area, where would you go to get this information?" The responses were unprompted.

Projection: Geographics

Datum: GDA94

Date: October 2007

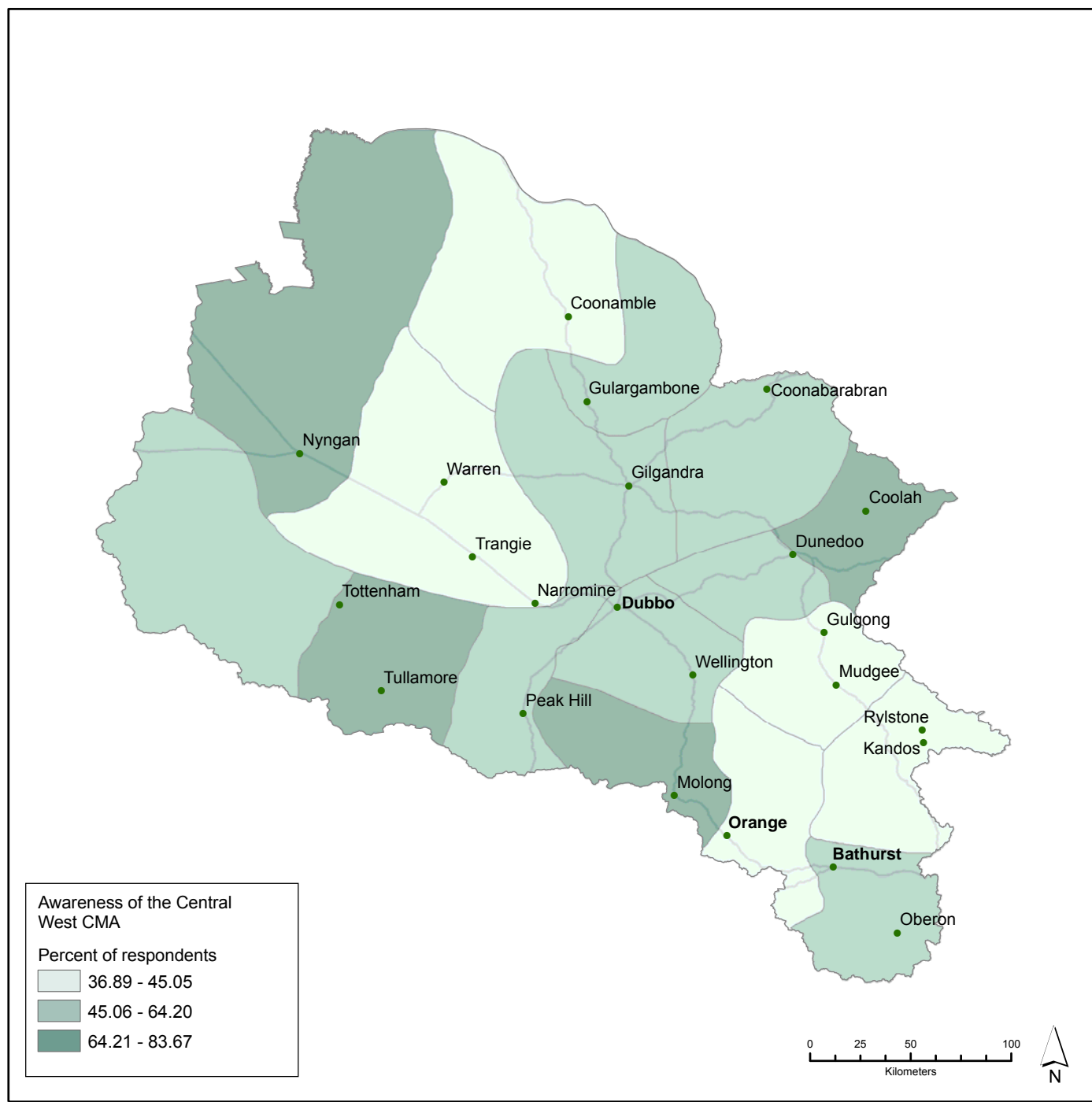
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



36. AWARENESS OF THE CENTRAL WEST CMA



Note: Based on the responses of landholders

The question stated: "Have you heard of the Central West Catchment Management Authority or CMA?"

Projection: Geographics

Datum: GDA94

Date: October 2007

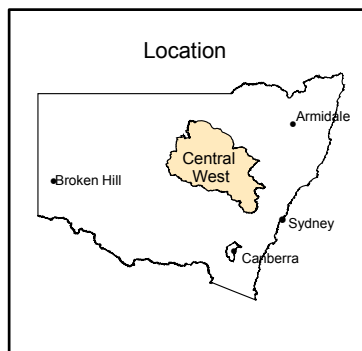
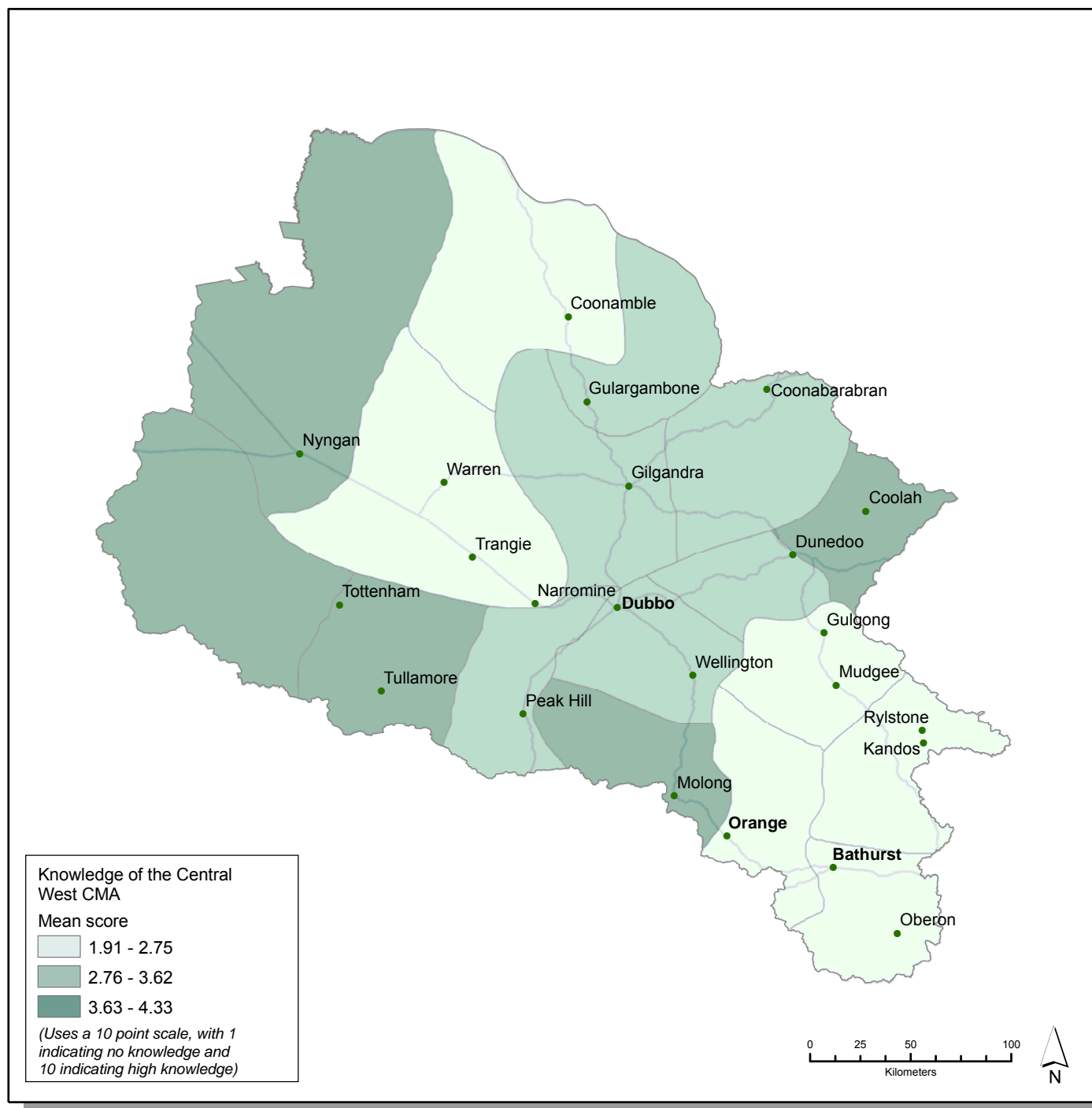
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



37. KNOWLEDGE OF THE CENTRAL WEST CMA



Note: Based on the responses of landholders

The question stated: "If you were to give yourself a score from one (1) to ten (10) in relation to your knowledge of the Central West Catchment Management Authority, with one (1) being no knowledge at all and ten (10) being all the knowledge anyone could have, what score would you give yourself?"

Projection: Geographics

Datum: GDA94

Date: October 2007

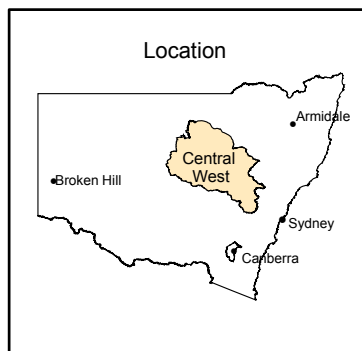
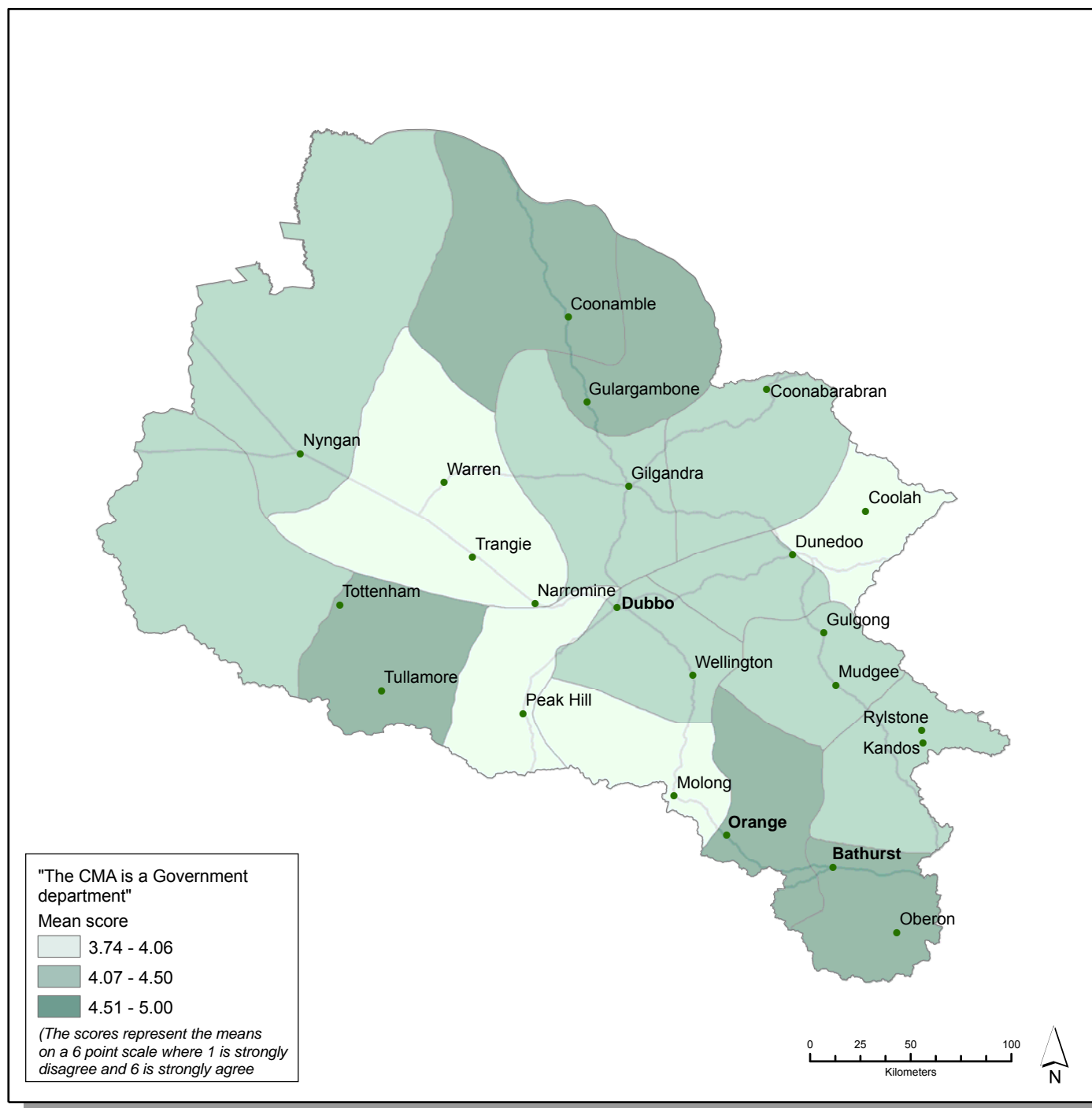
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



38. KNOWLEDGE OF THE CMA: GOVERNMENT DEPARTMENT



Note: Based on the responses of landholders

The question stated: "The CMA is a Government department."
 Responses were from (1) strongly disagree to (6) strongly agree.

Projection: Geographics

Datum: GDA94

Date: October 2007

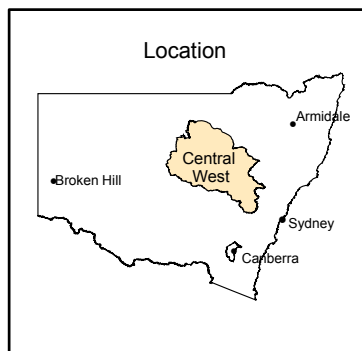
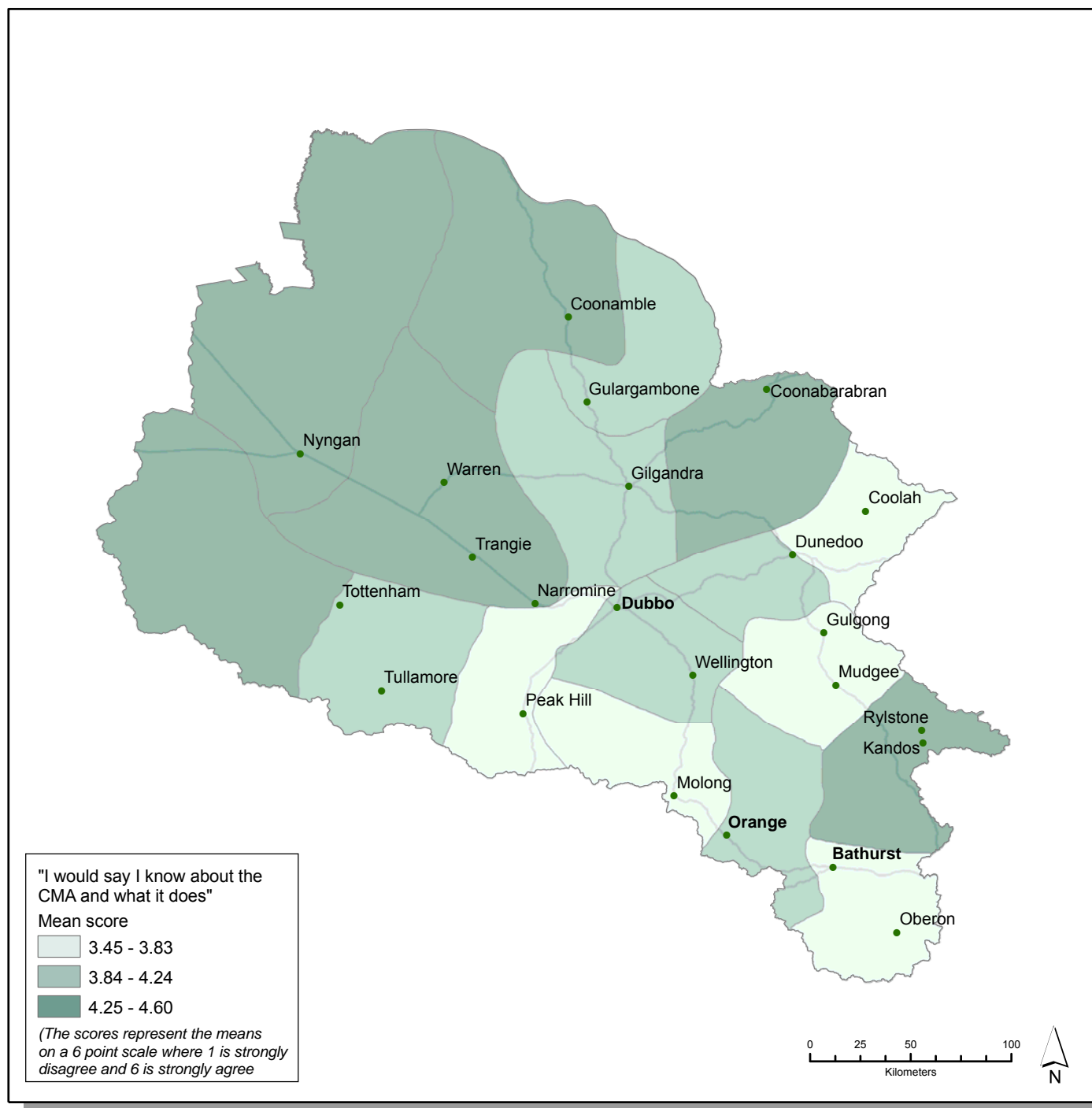
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



39. KNOWLEDGE OF THE CMA



Note: Based on the responses of landholders

The question stated: "I would say I know about the CMA and what it does."
Responses were from (1) strongly disagree to (6) strongly agree.

Projection: Geographics

Datum: GDA94

Date: October 2007

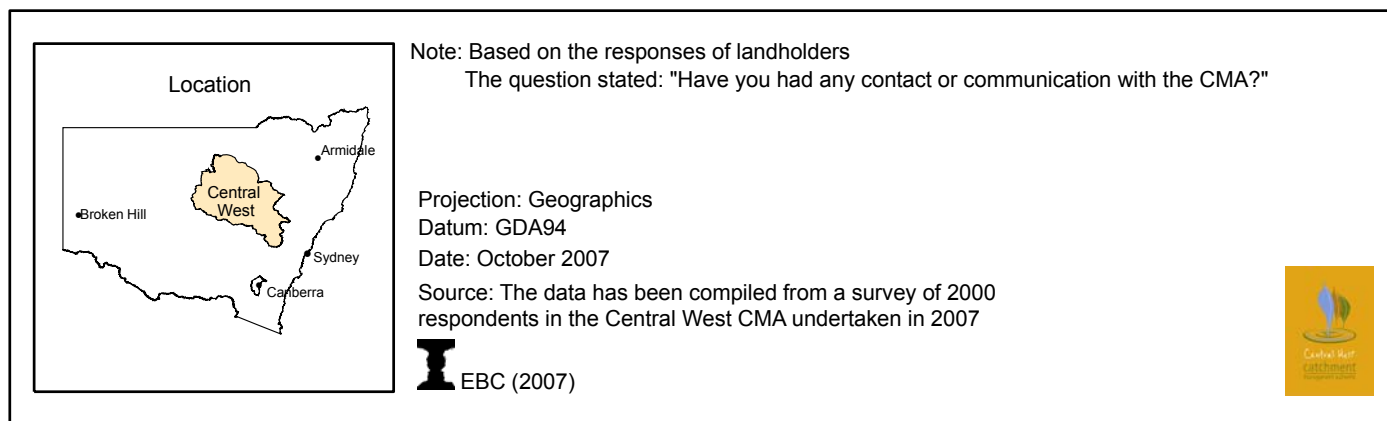
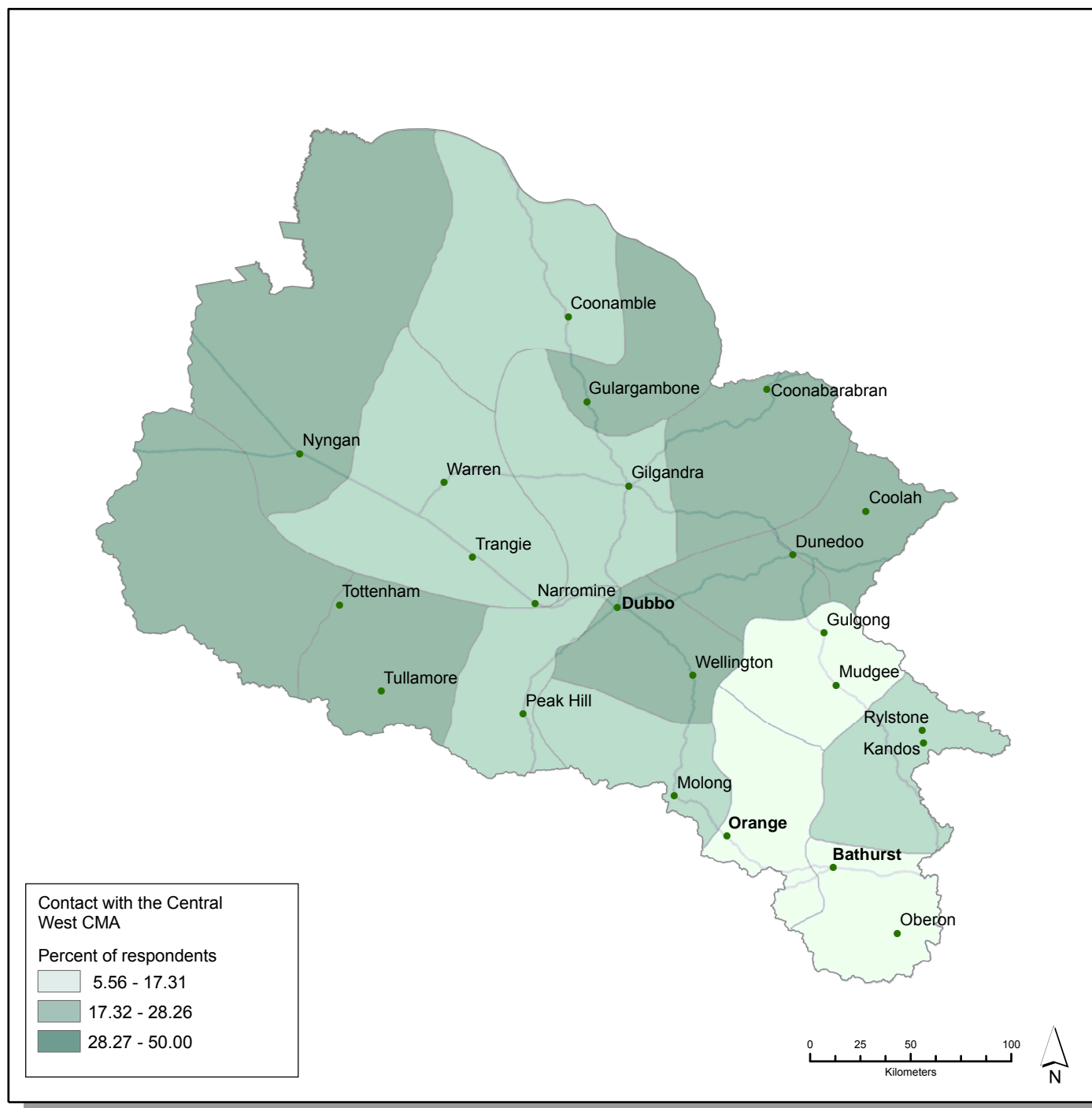
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



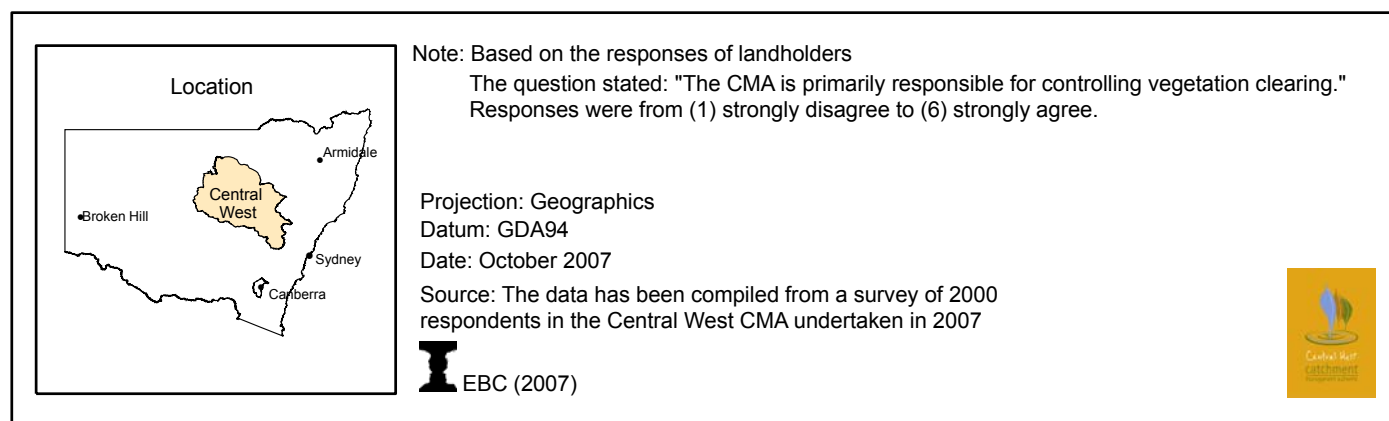
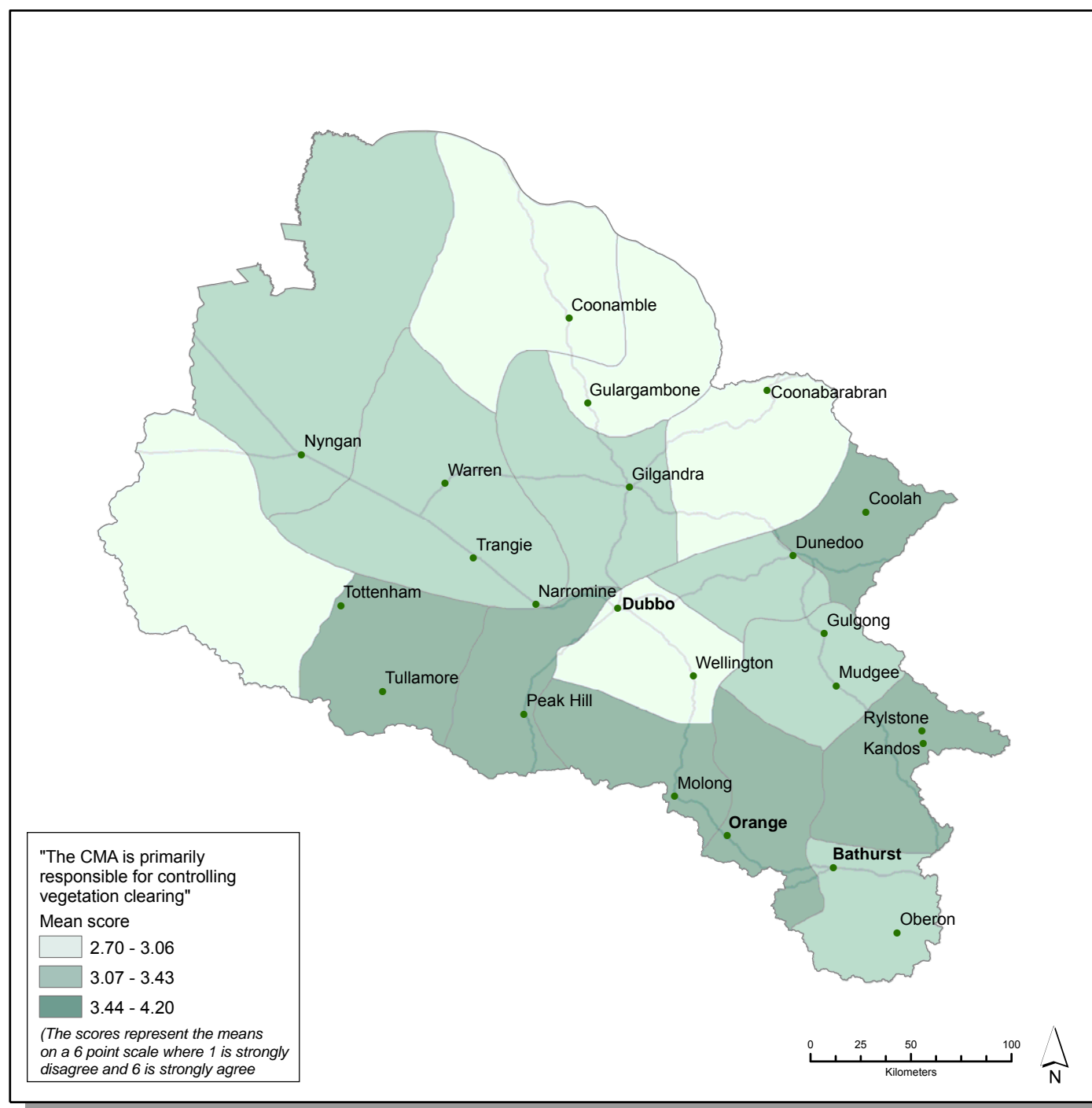
EBC (2007)



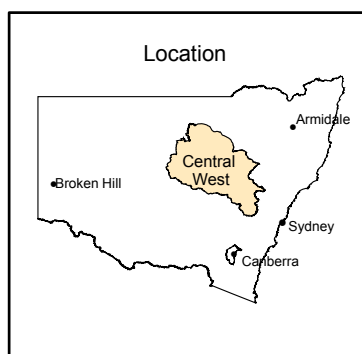
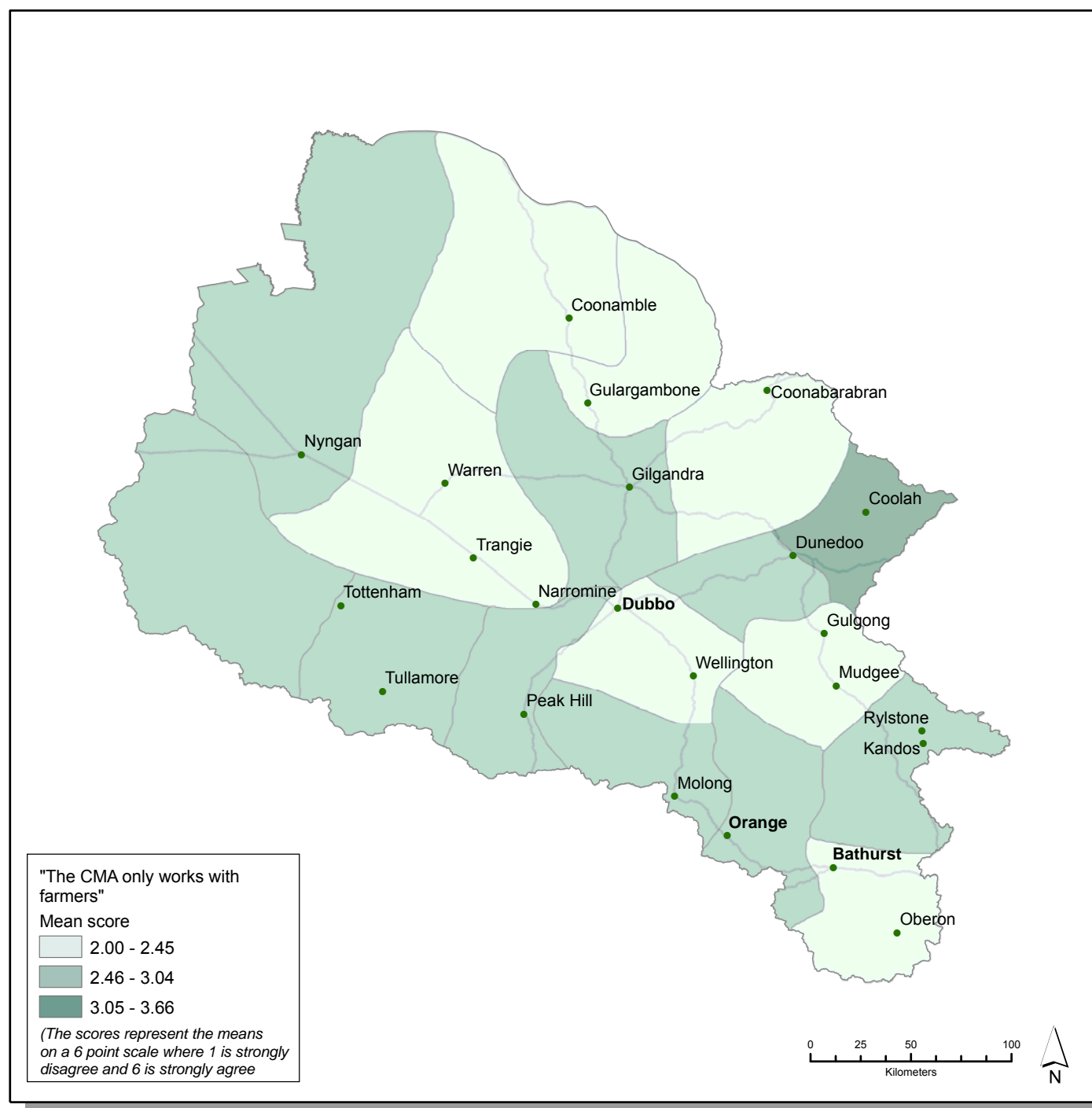
40. CONTACT WITH THE CENTRAL WEST CMA



41. THE ROLE OF THE CMA: VEGETATION CLEARING



42. THE ROLE OF THE CMA: WORKING WITH FARMERS



Note: Based on the responses of landholders

The question stated: "The CMA only works with farmers."

Responses were from (1) strongly disagree to (6) strongly agree.

Projection: Geographics

Datum: GDA94

Date: October 2007

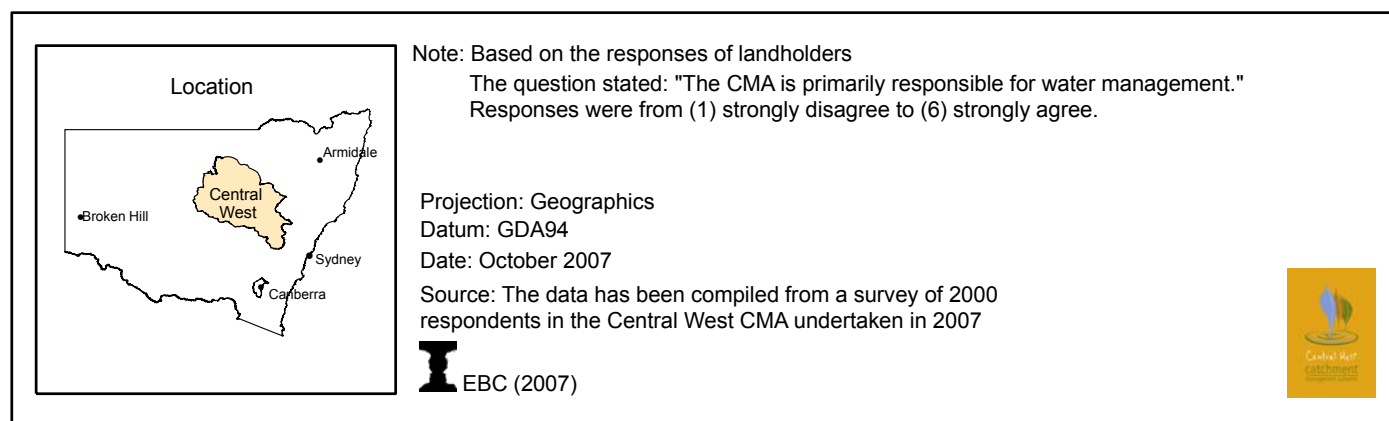
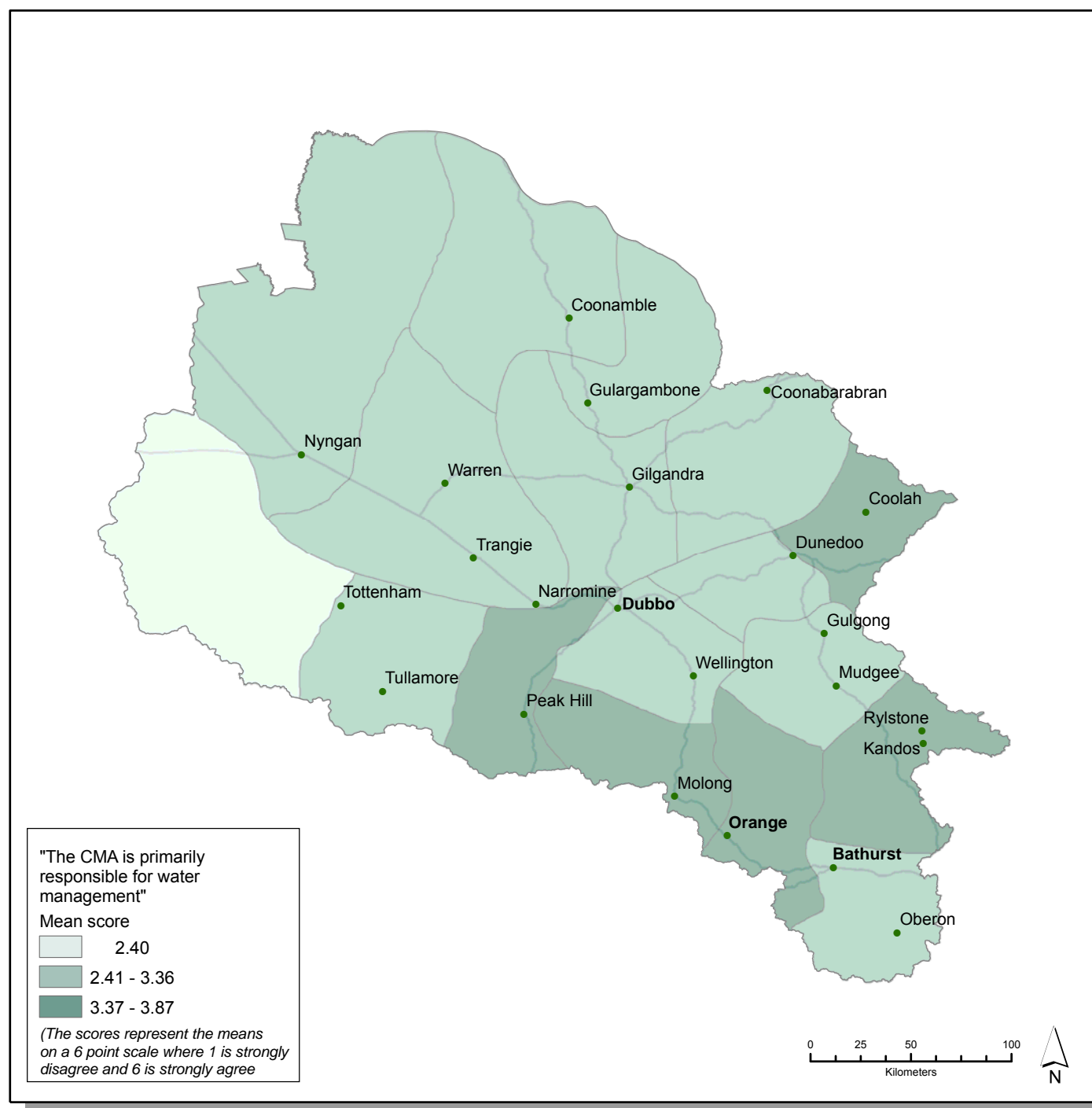
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



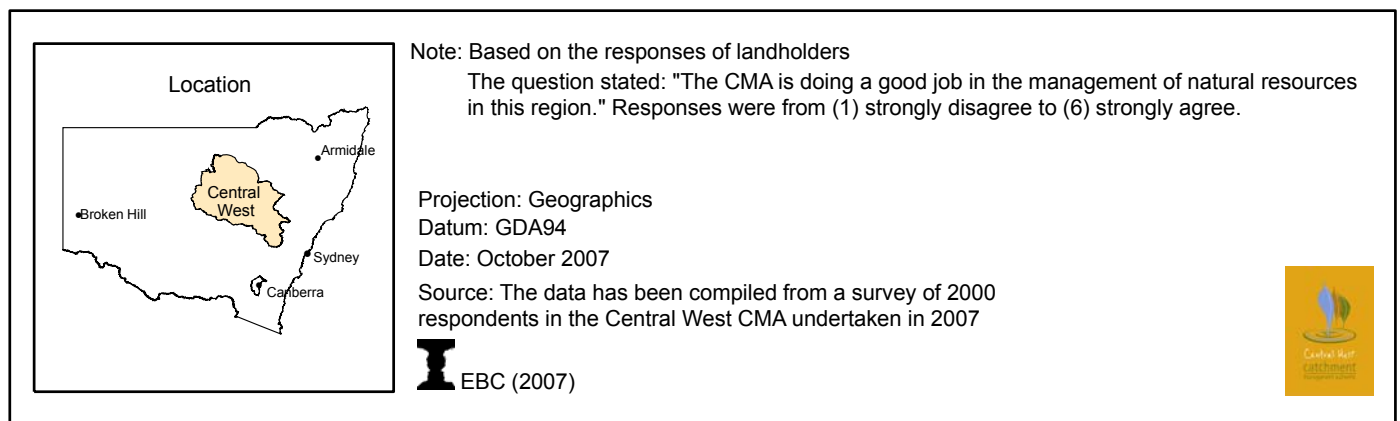
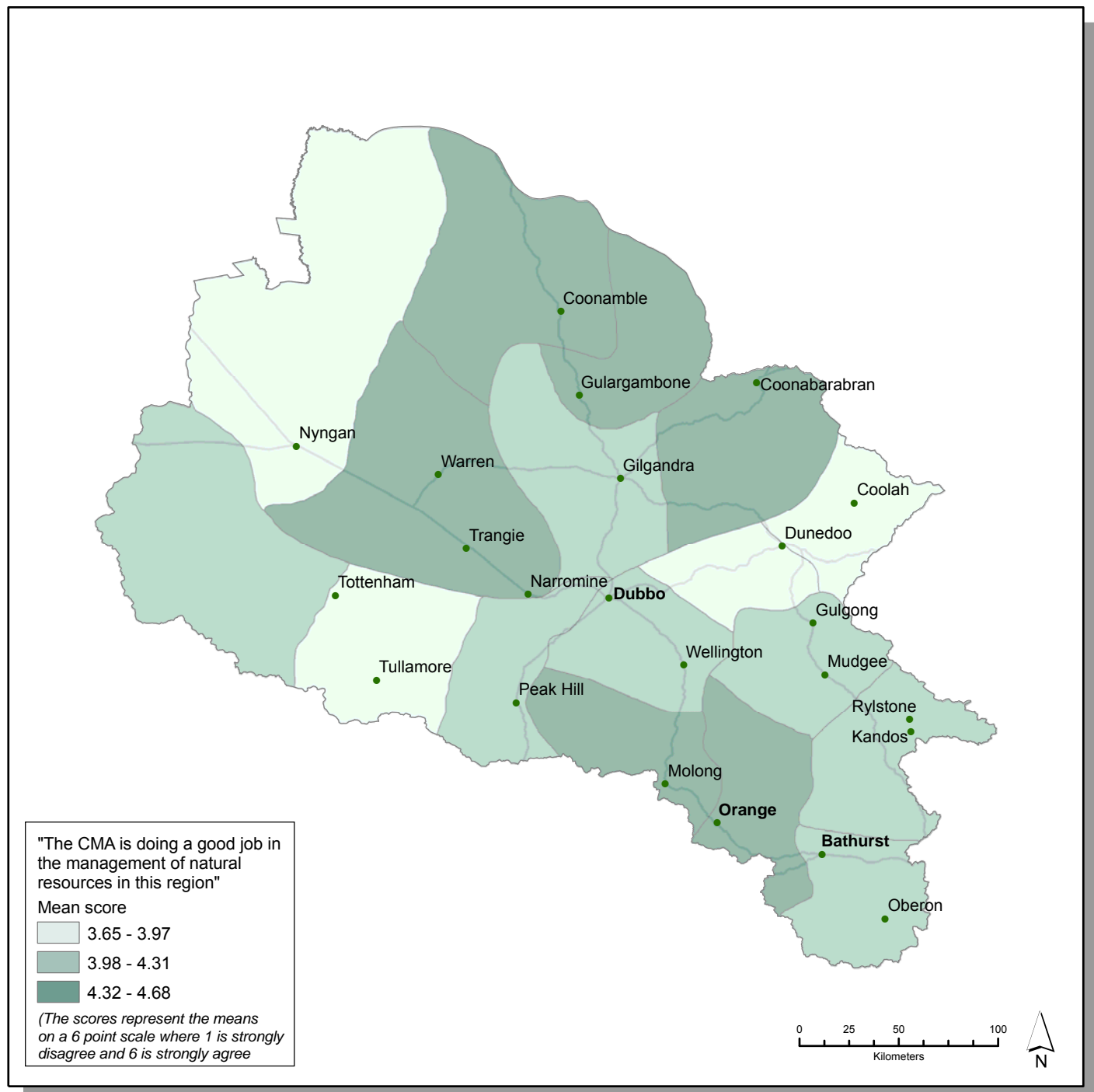
EBC (2007)



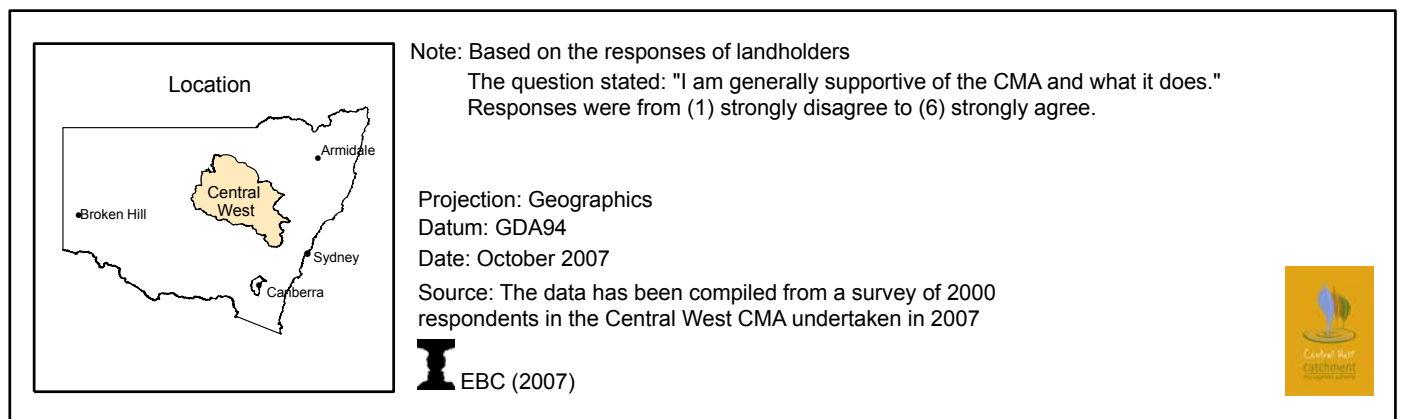
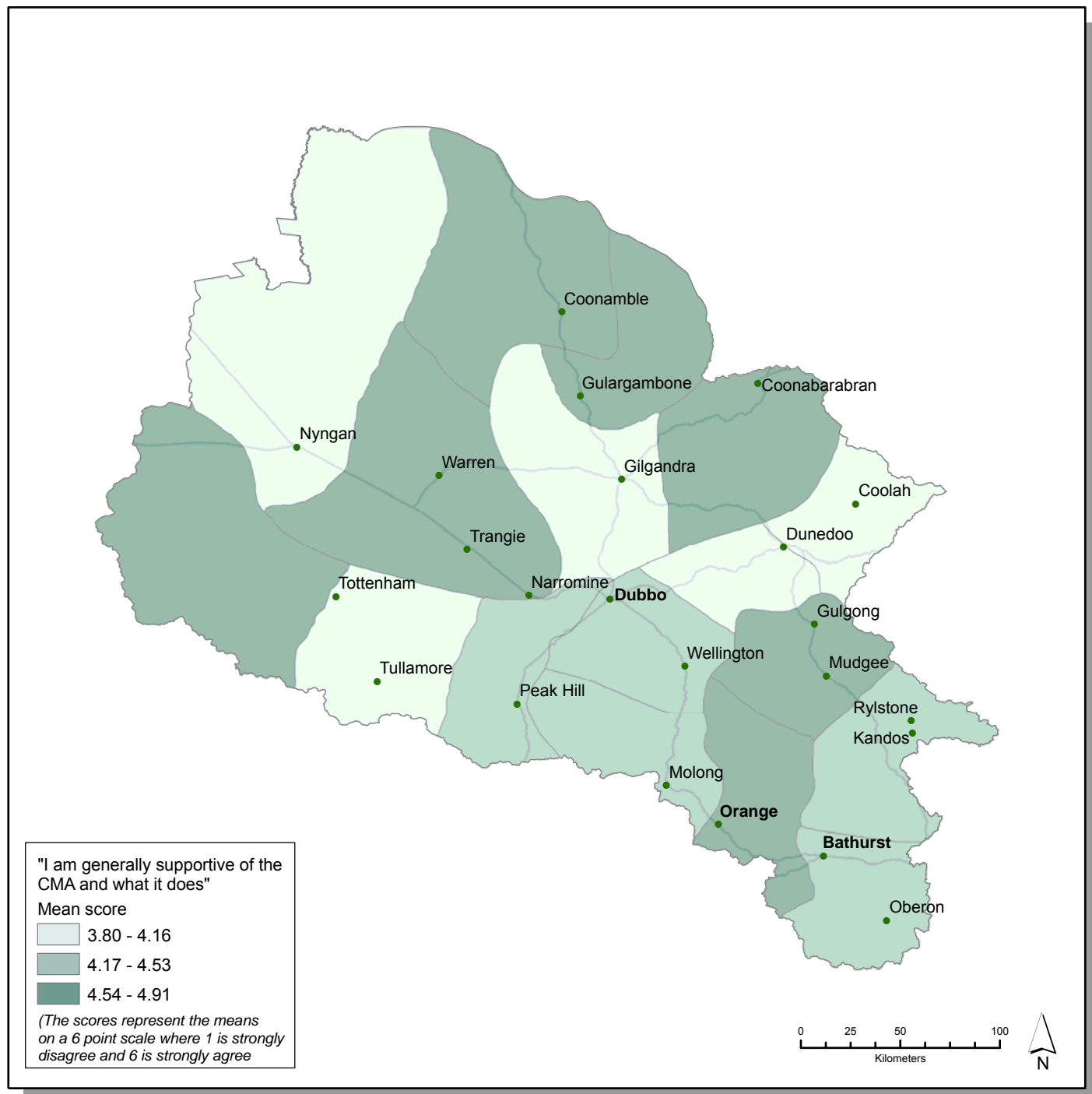
43. THE ROLE OF THE CMA: WATER MANAGEMENT



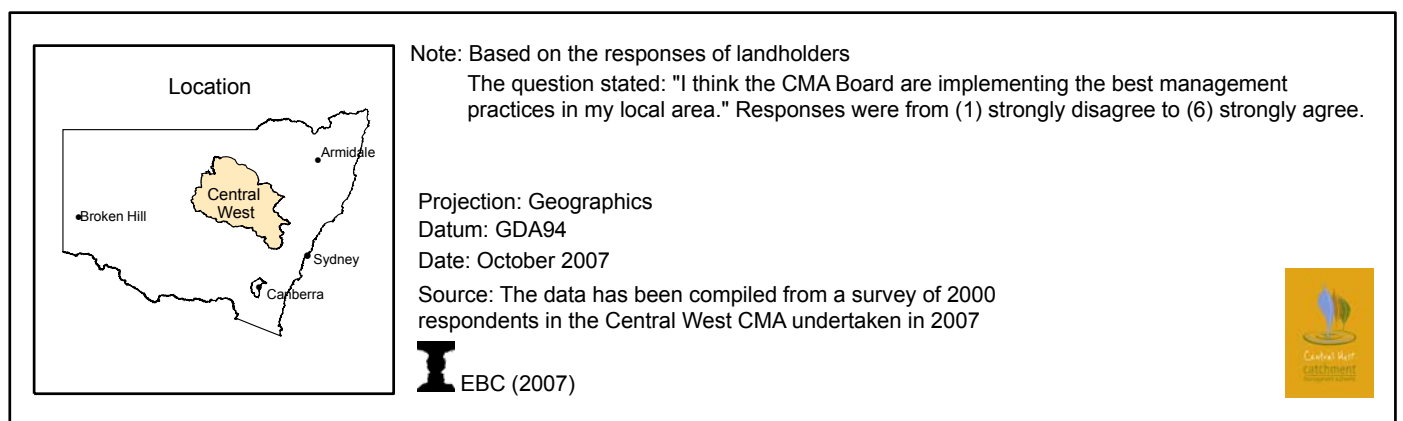
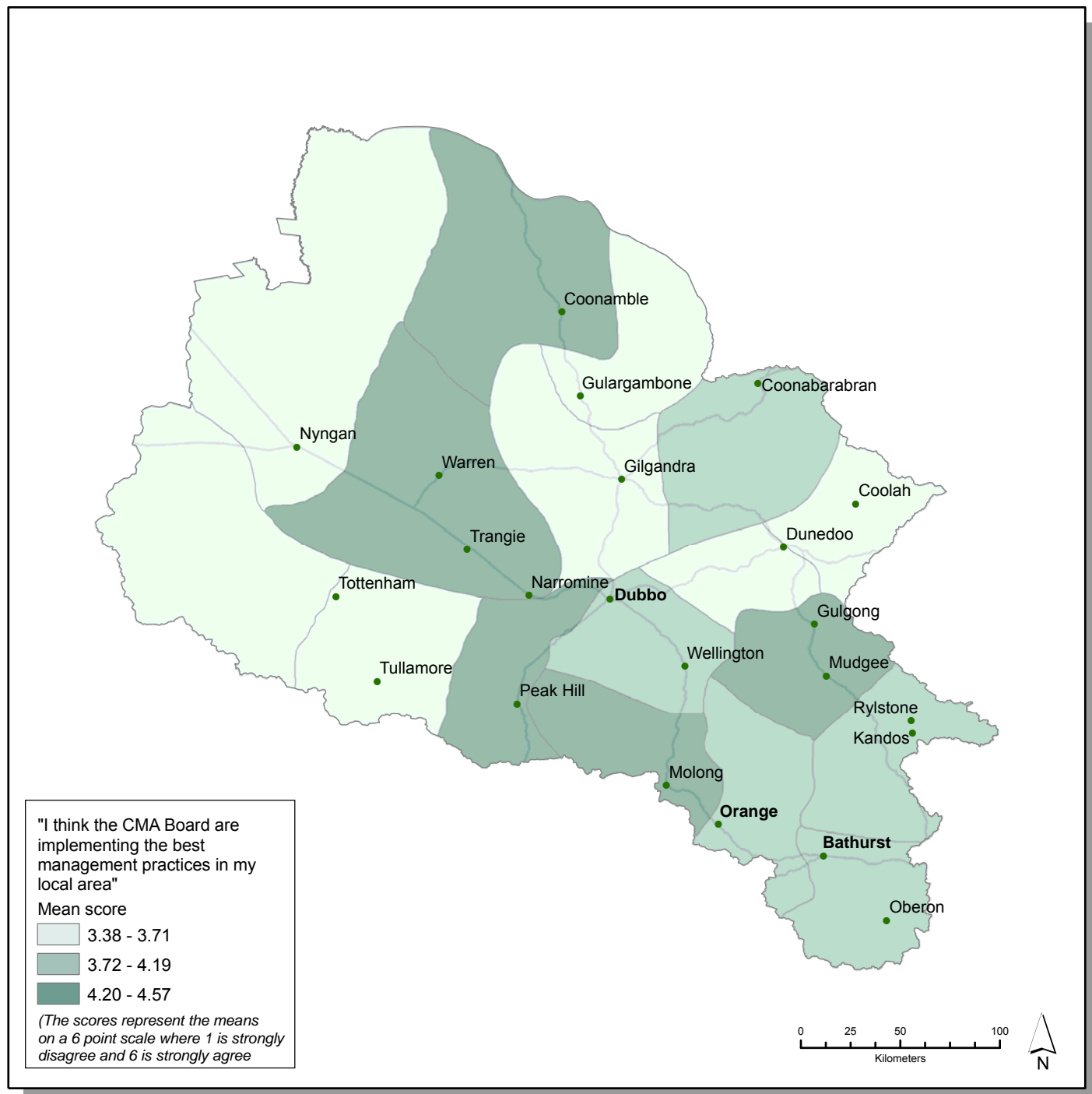
44. EVALUATING THE CMA: NATURAL RESOURCE MANAGEMENT



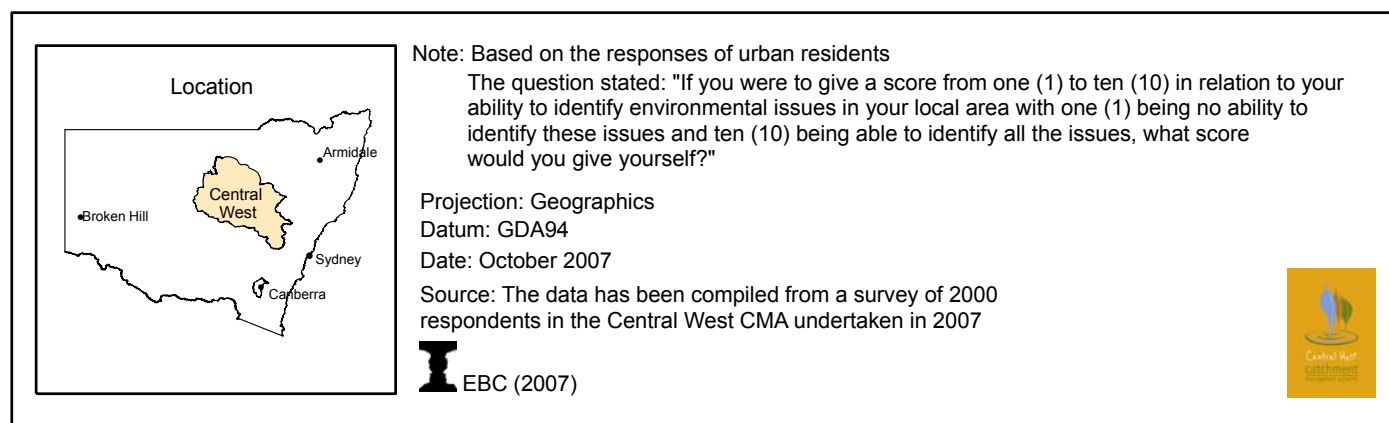
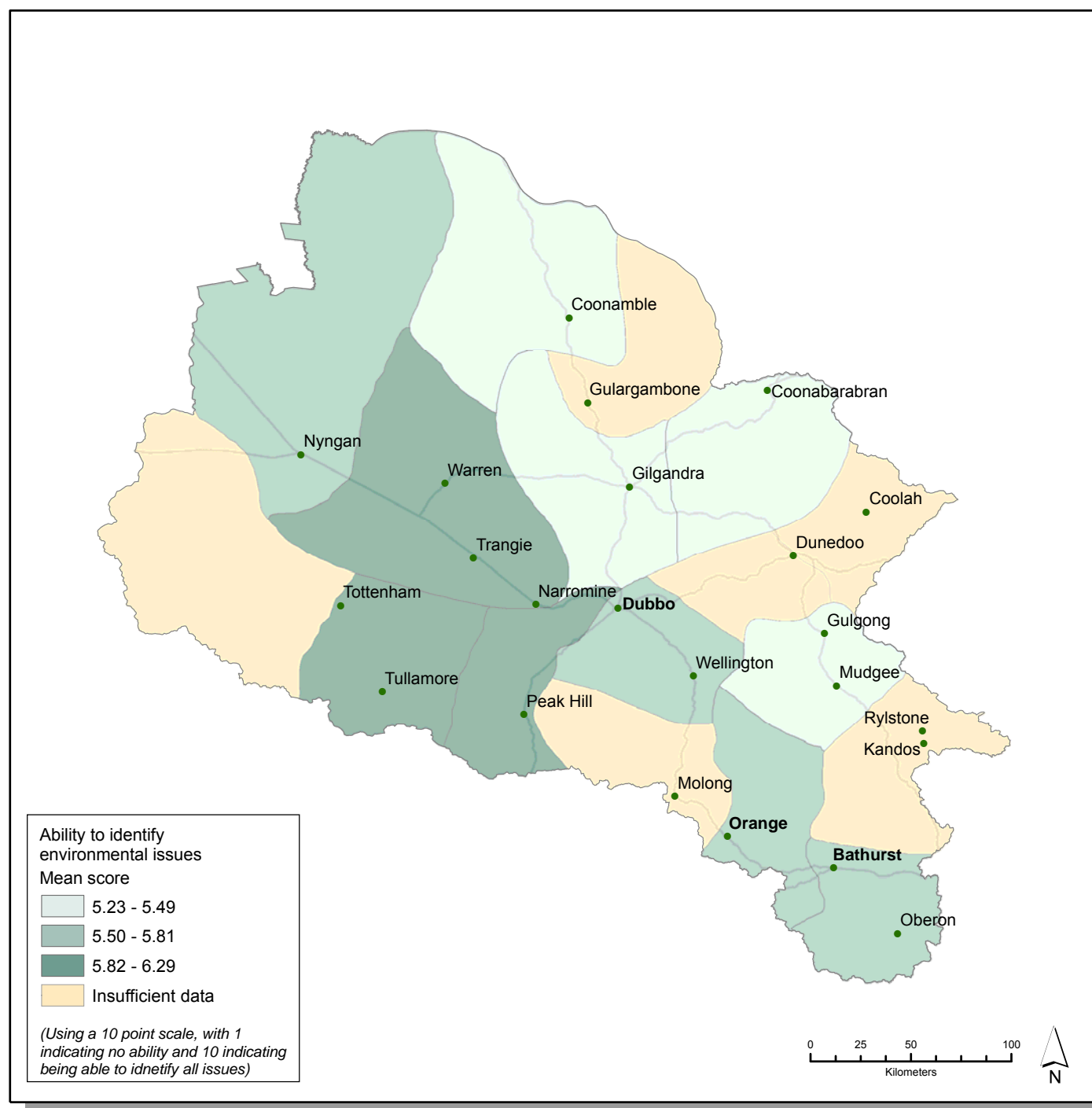
45. EVALUATING THE CMA: SUPPORTING THE CMA



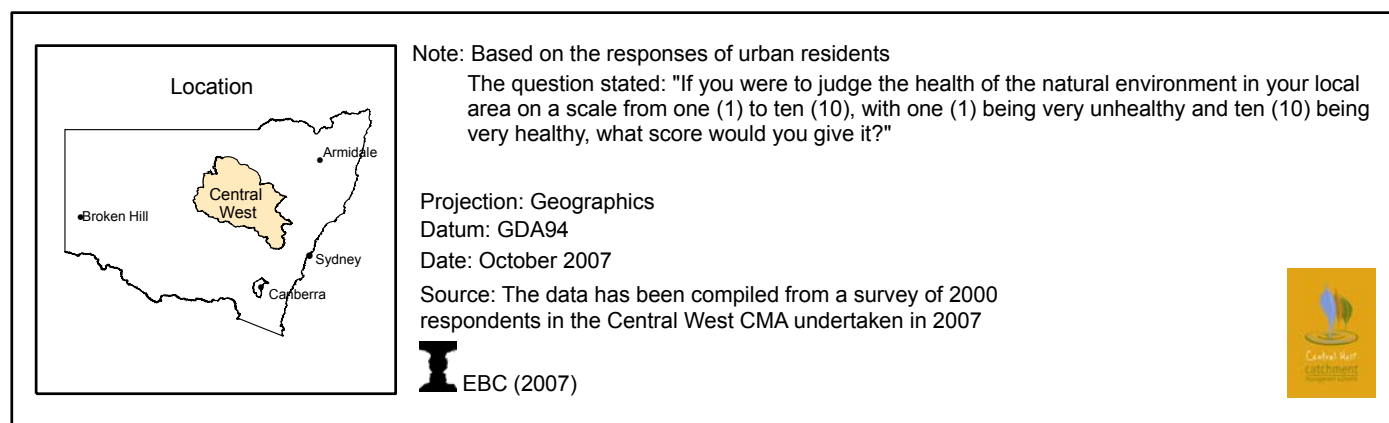
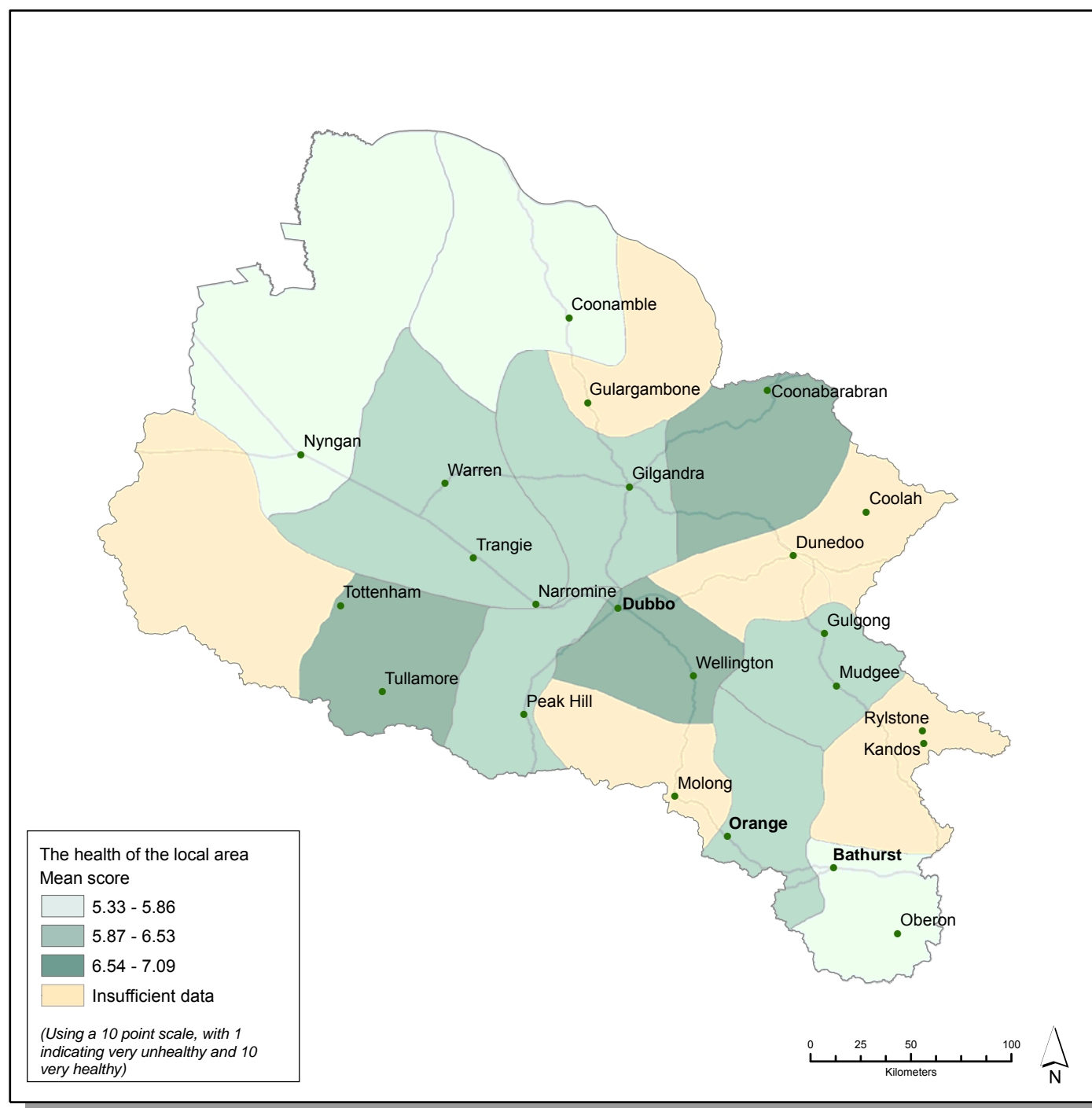
46. EVALUATING THE CMA: BEST MANAGEMENT PRACTICES



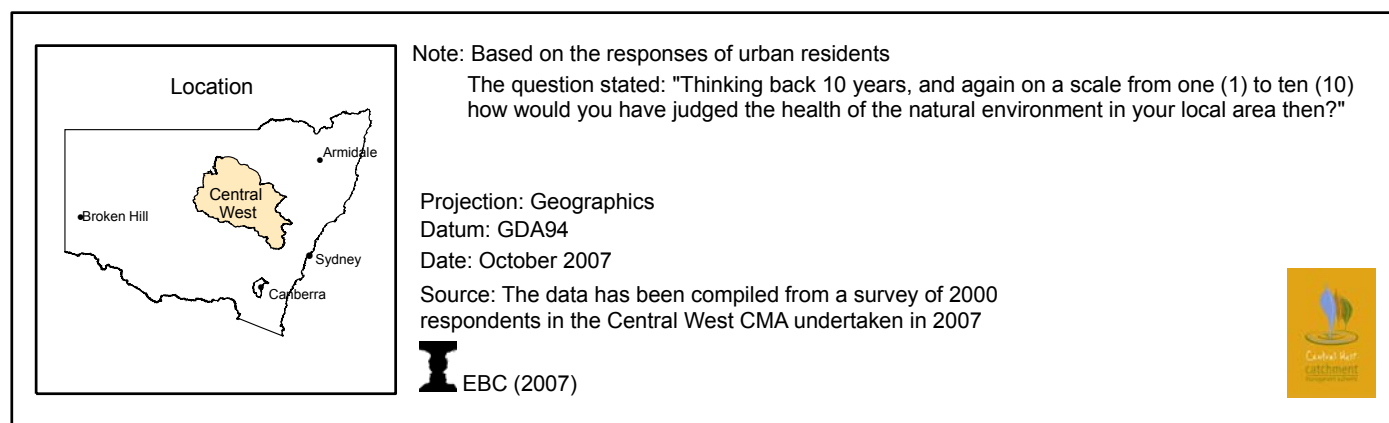
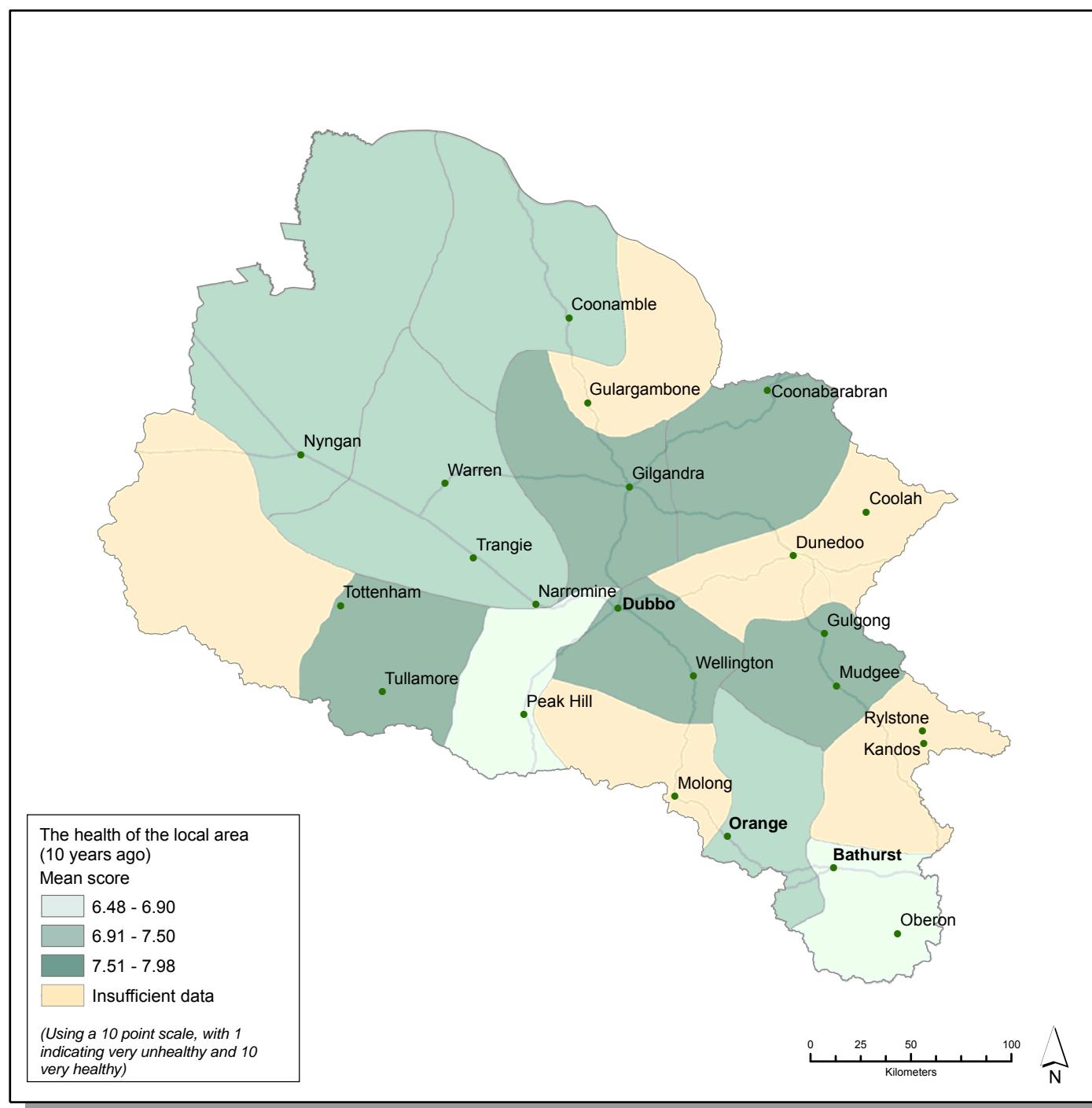
47. ABILITY TO IDENTIFY ENVIRONMENTAL ISSUES



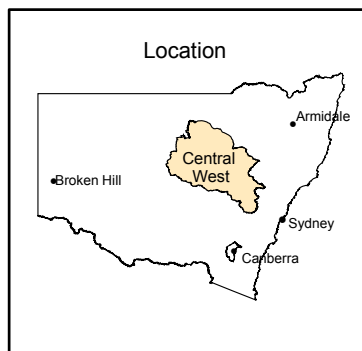
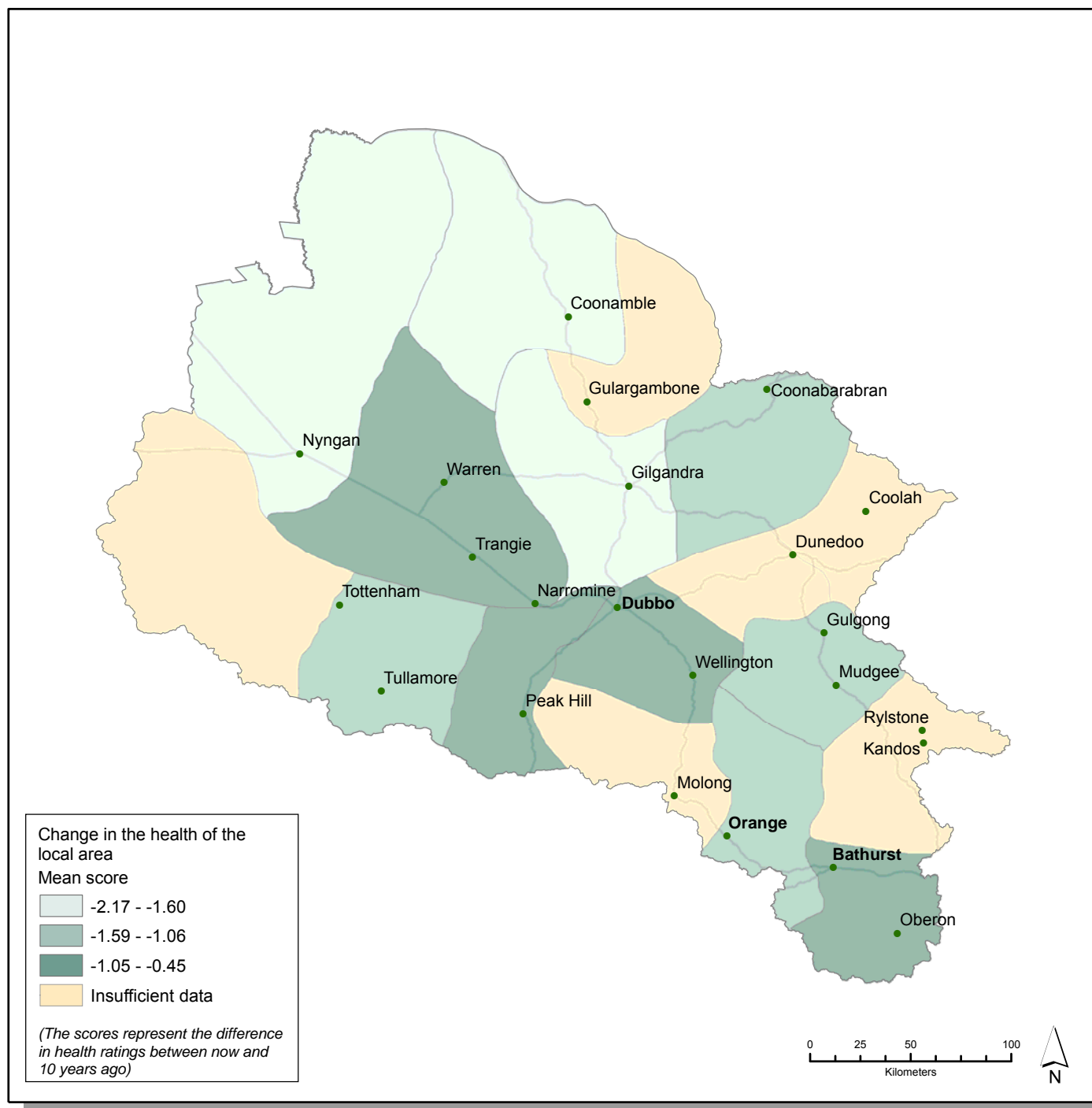
48. HEALTH OF THE LOCAL AREA (CURRENT)



49. HEALTH OF THE LOCAL AREA (10 YEARS AGO)



50. CHANGE IN THE HEALTH OF THE LOCAL AREA



Note: Based on the responses of urban residents

The scores that are mapped represent the difference in health rating scores for the local area now and 10 years ago. A zero or negative score indicates the health of the local area has become worse or not changed. A positive score indicates improvement in the health of the local area.

Projection: Geographics

Datum: GDA94

Date: October 2007

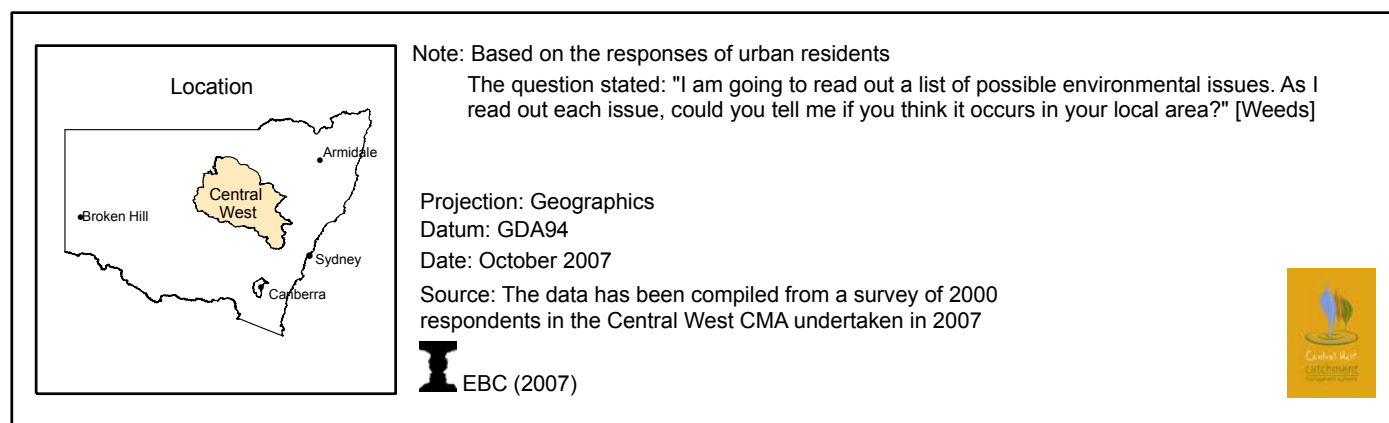
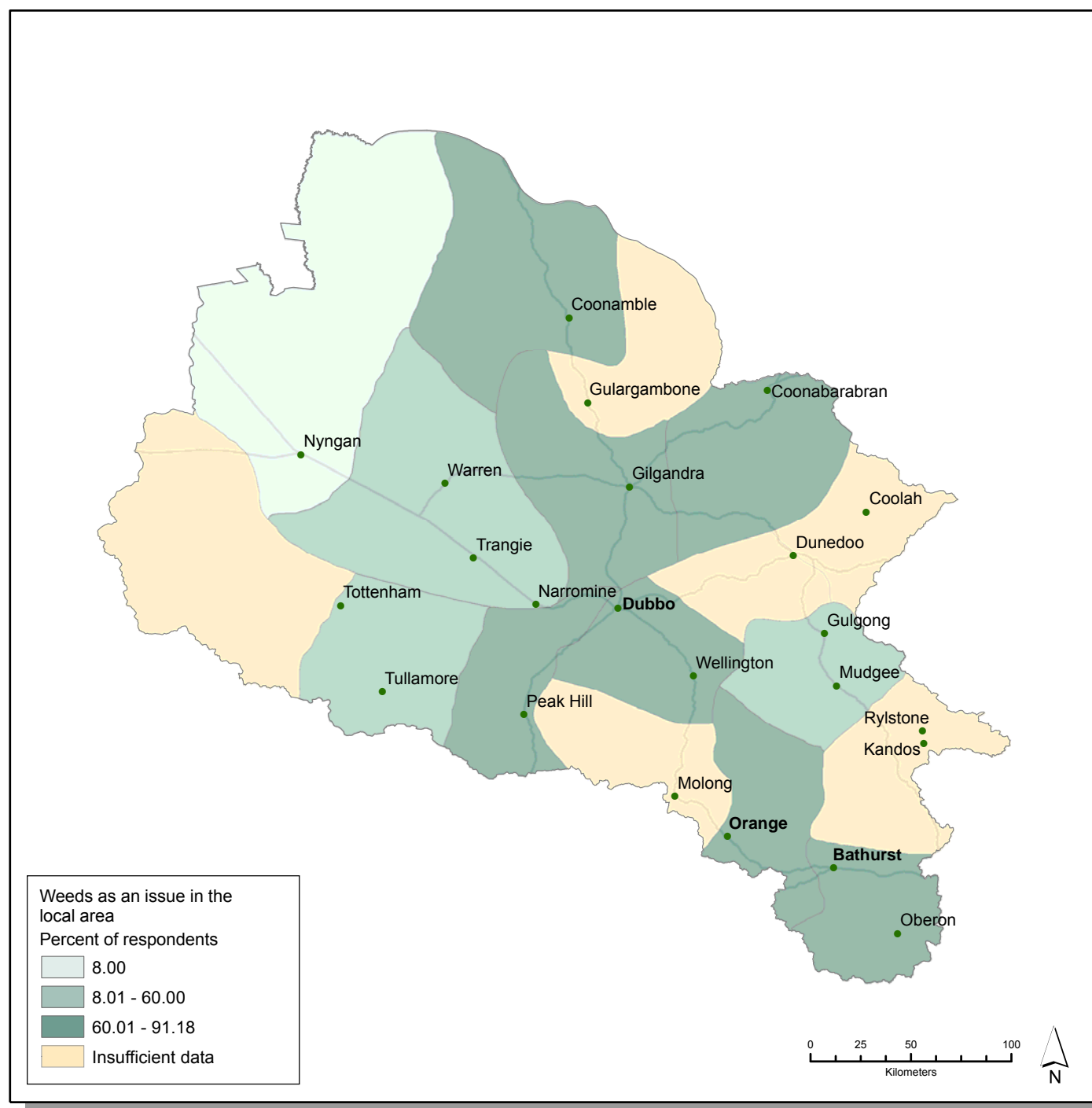
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



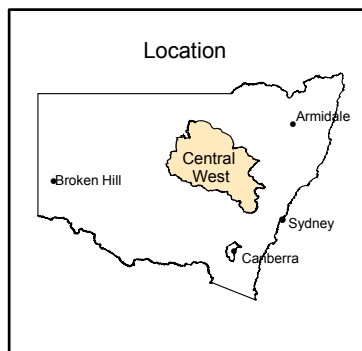
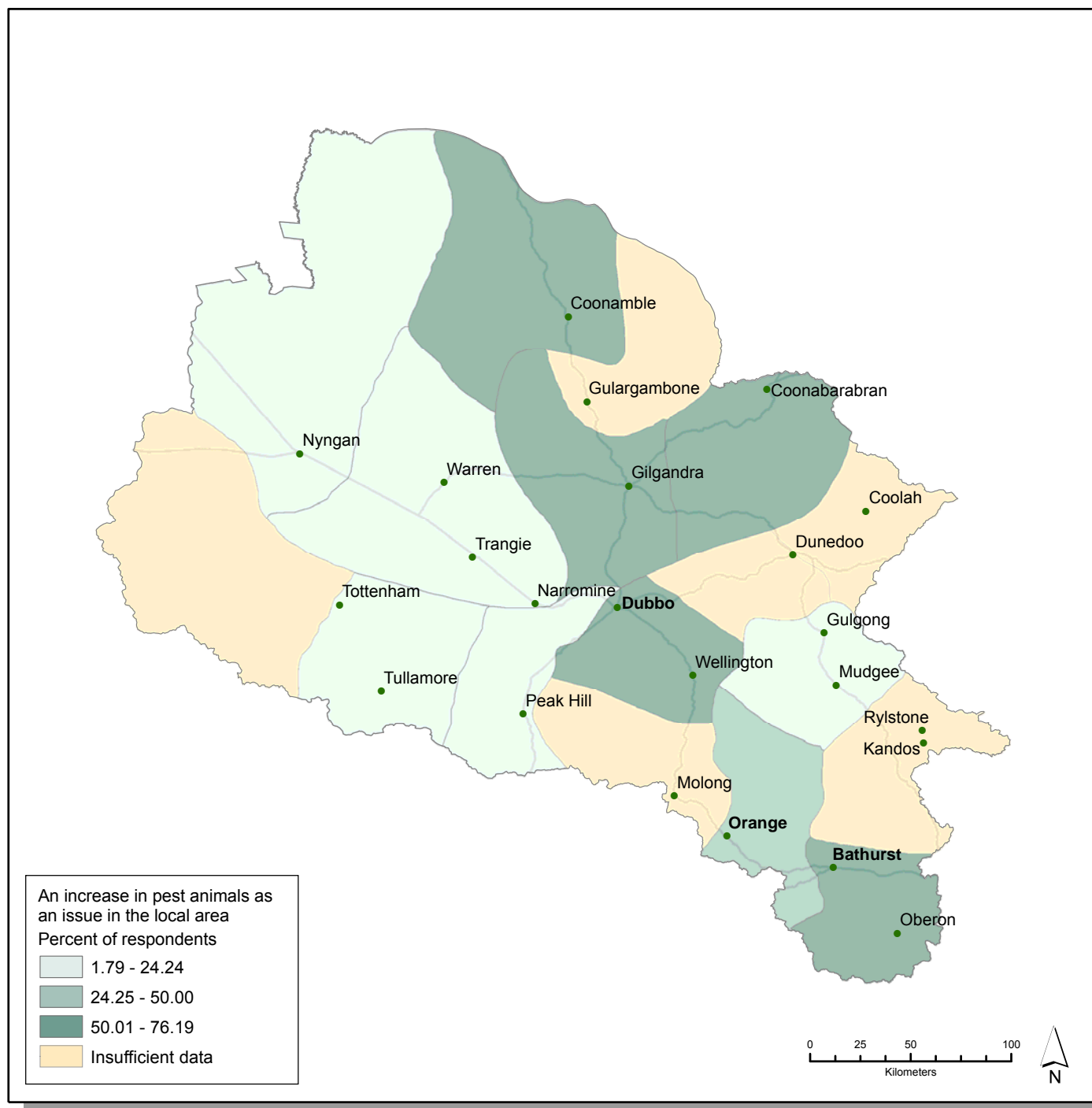
EBC (2007)



51. WEEDS IN THE LOCAL AREA



52. AN INCREASE IN PEST ANIMALS IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[Increase in pest animals]

Projection: Geographics

Datum: GDA94

Date: October 2007

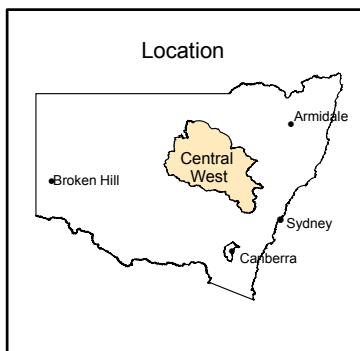
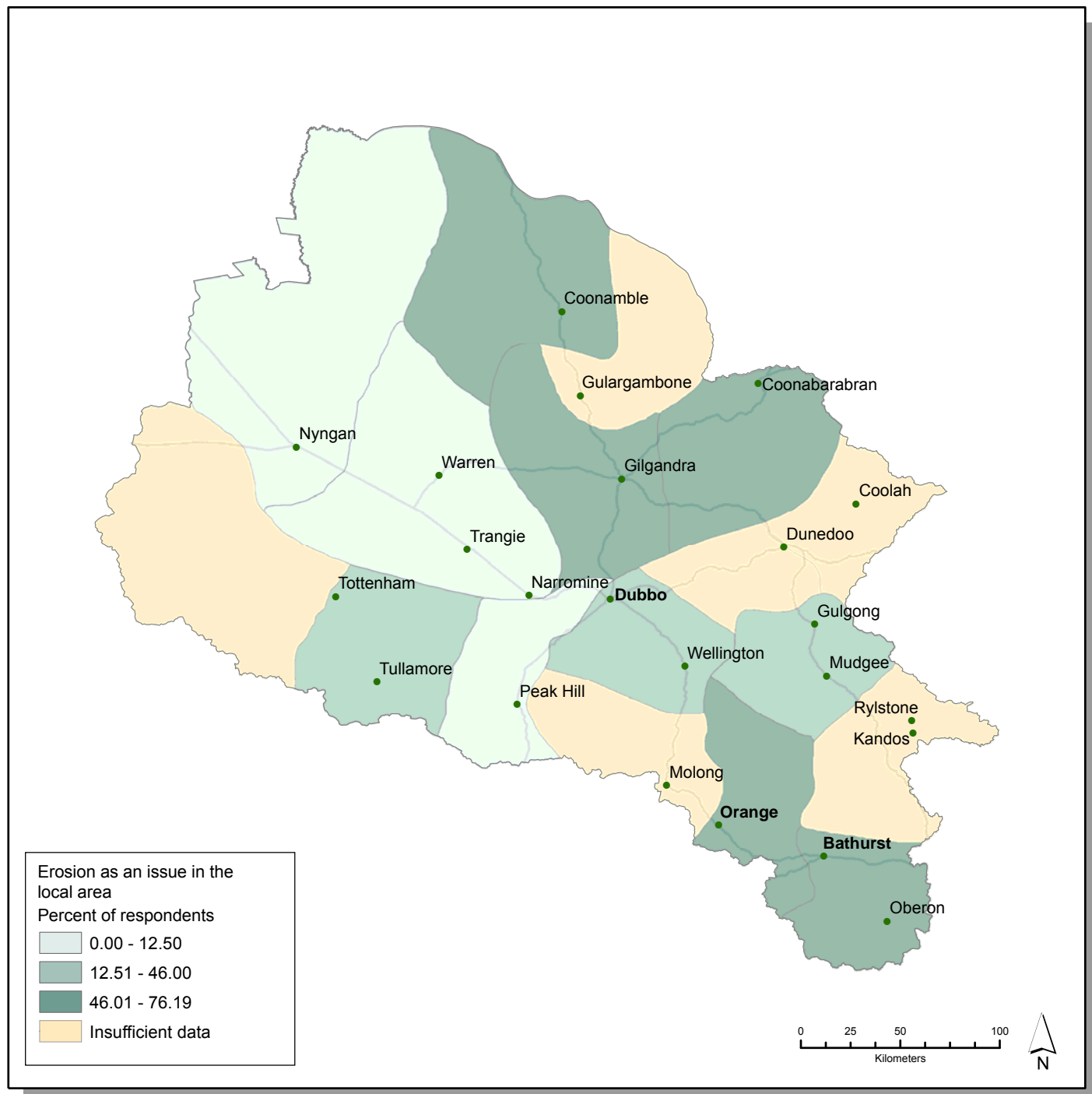
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



53. EROSION IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?" [Erosion]

Projection: Geographics

Datum: GDA94

Date: October 2007

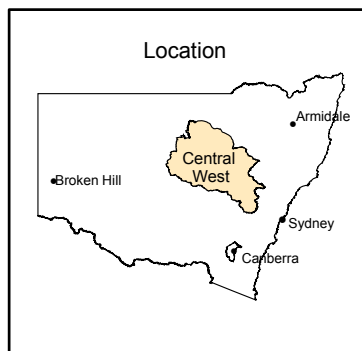
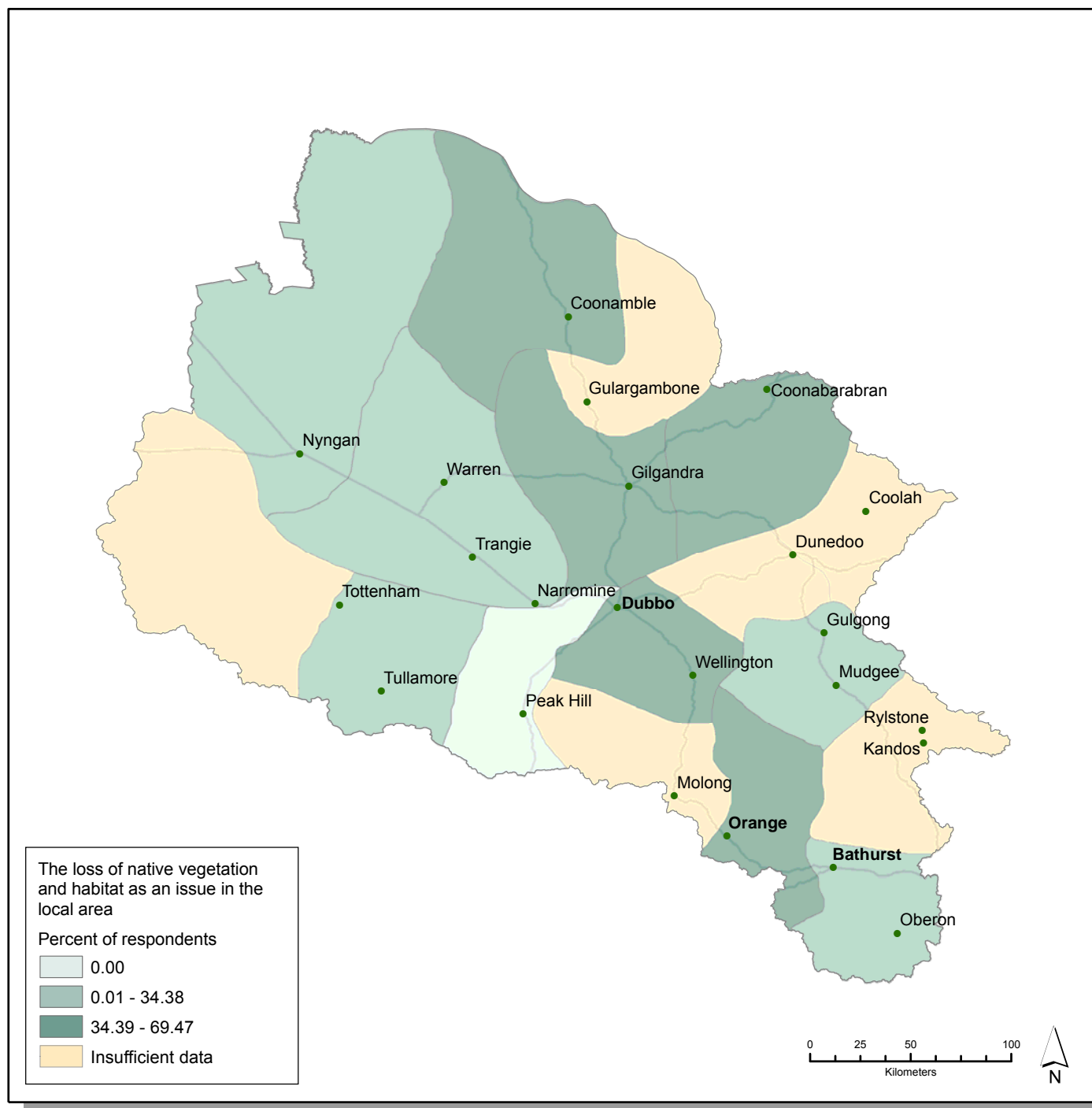
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



54. LOSS OF NATIVE VEGETATION IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[Loss of native vegetation and habitat]

Projection: Geographics

Datum: GDA94

Date: October 2007

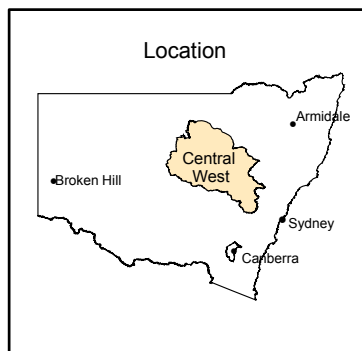
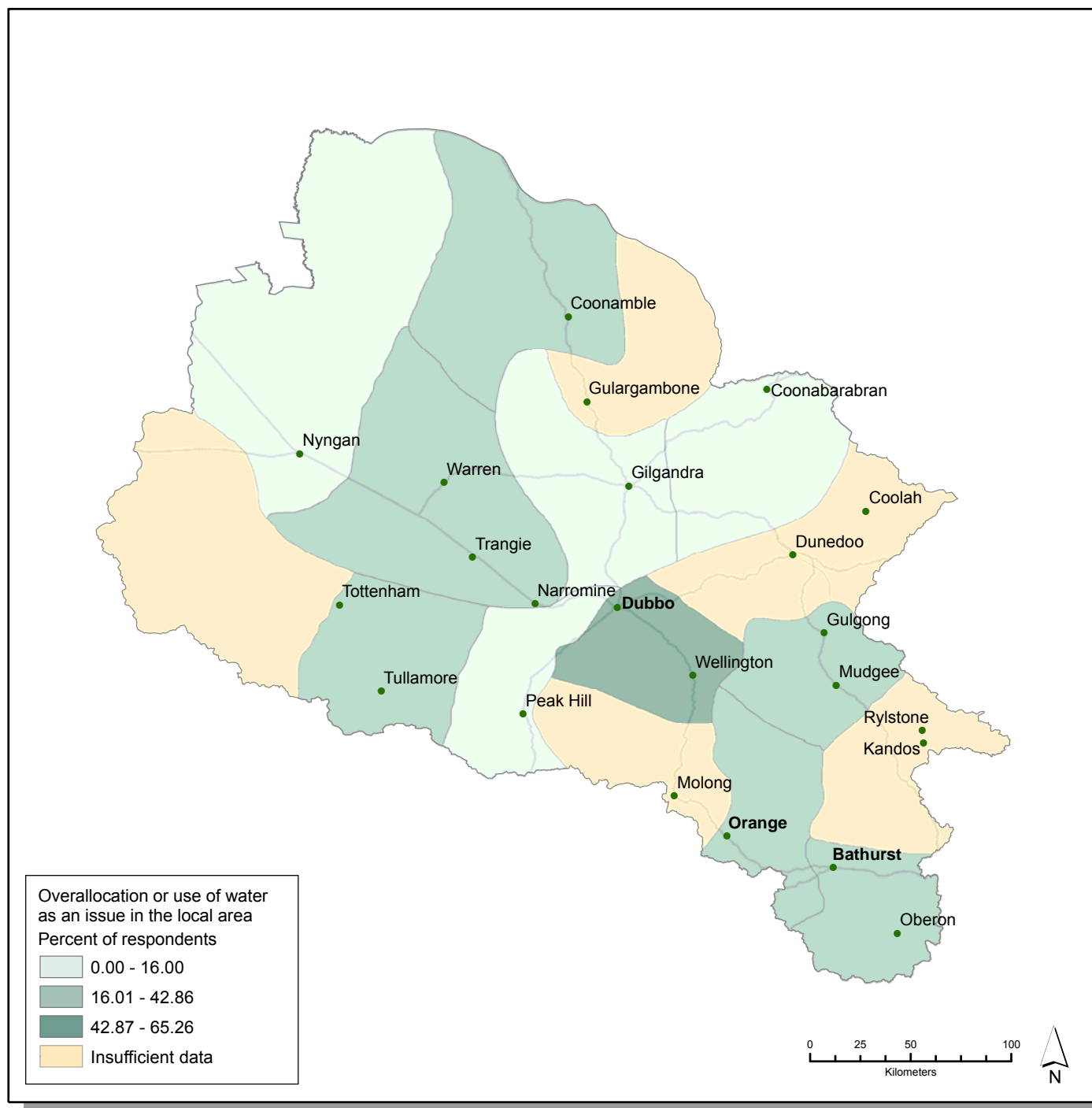
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



55. OVER ALLOCATION OR USE OF WATER IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[Over allocation or use of water]

Projection: Geographics

Datum: GDA94

Date: October 2007

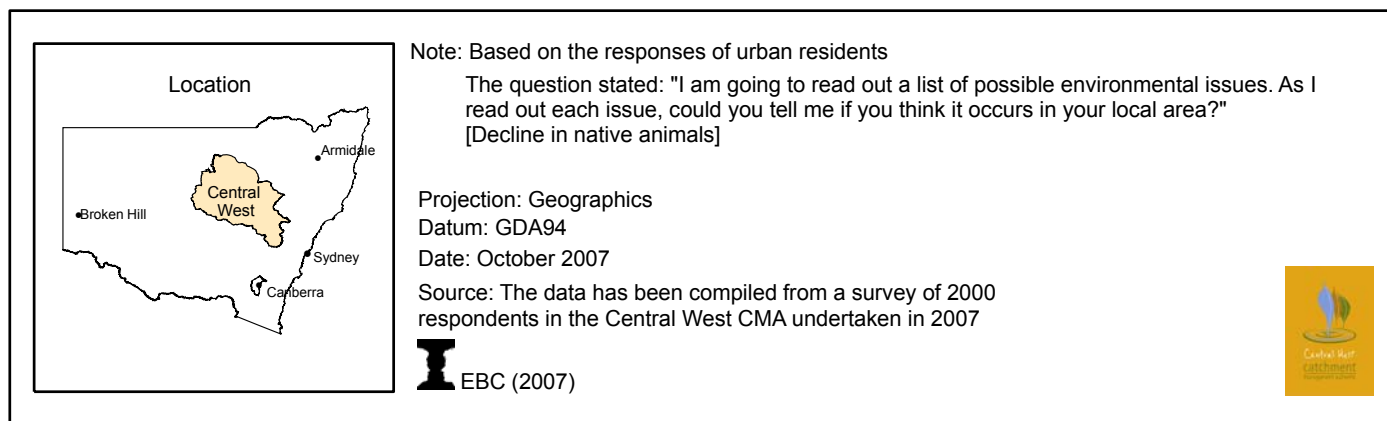
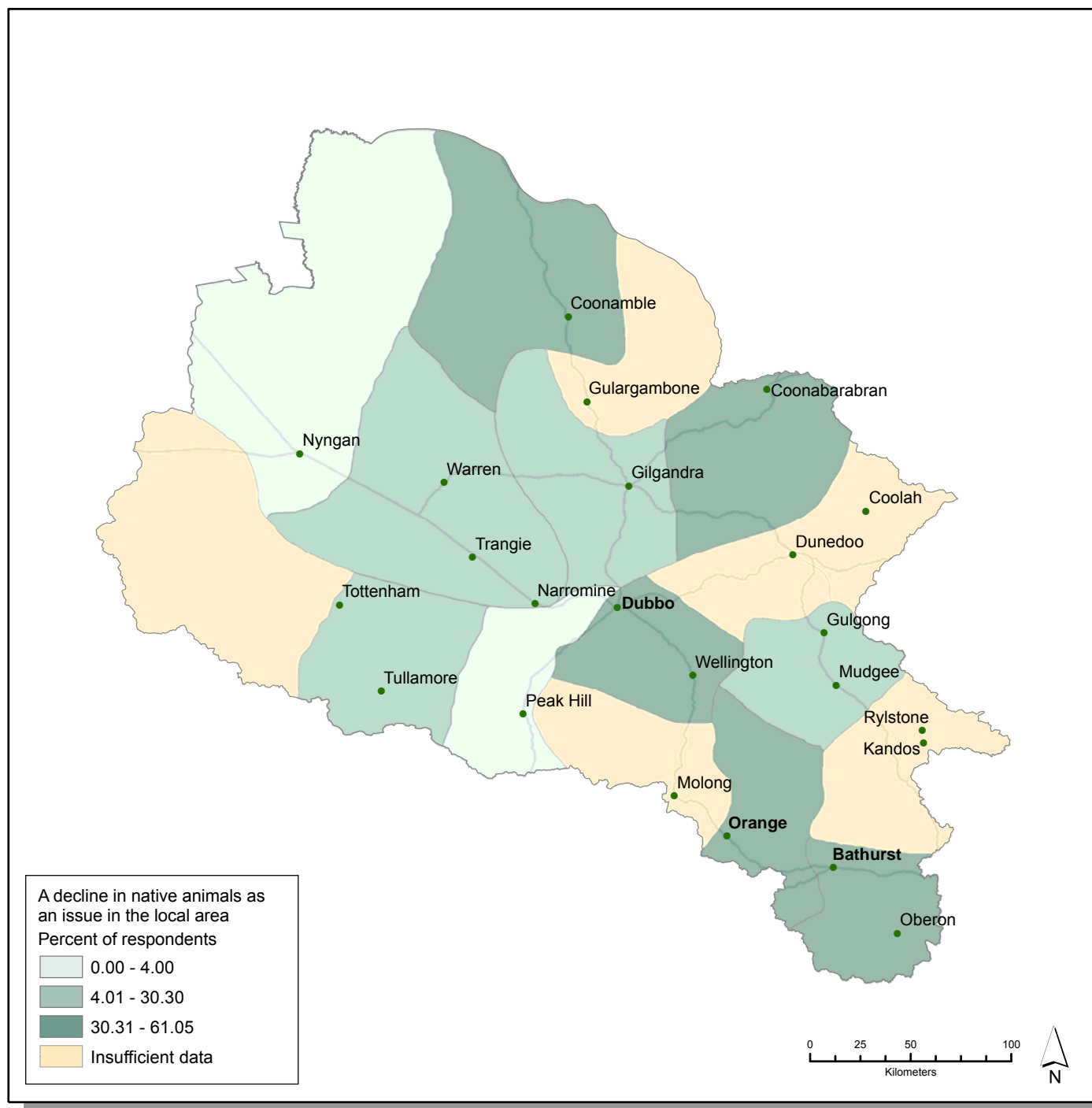
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



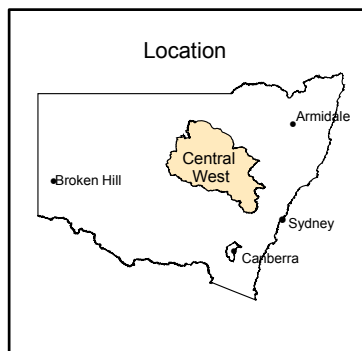
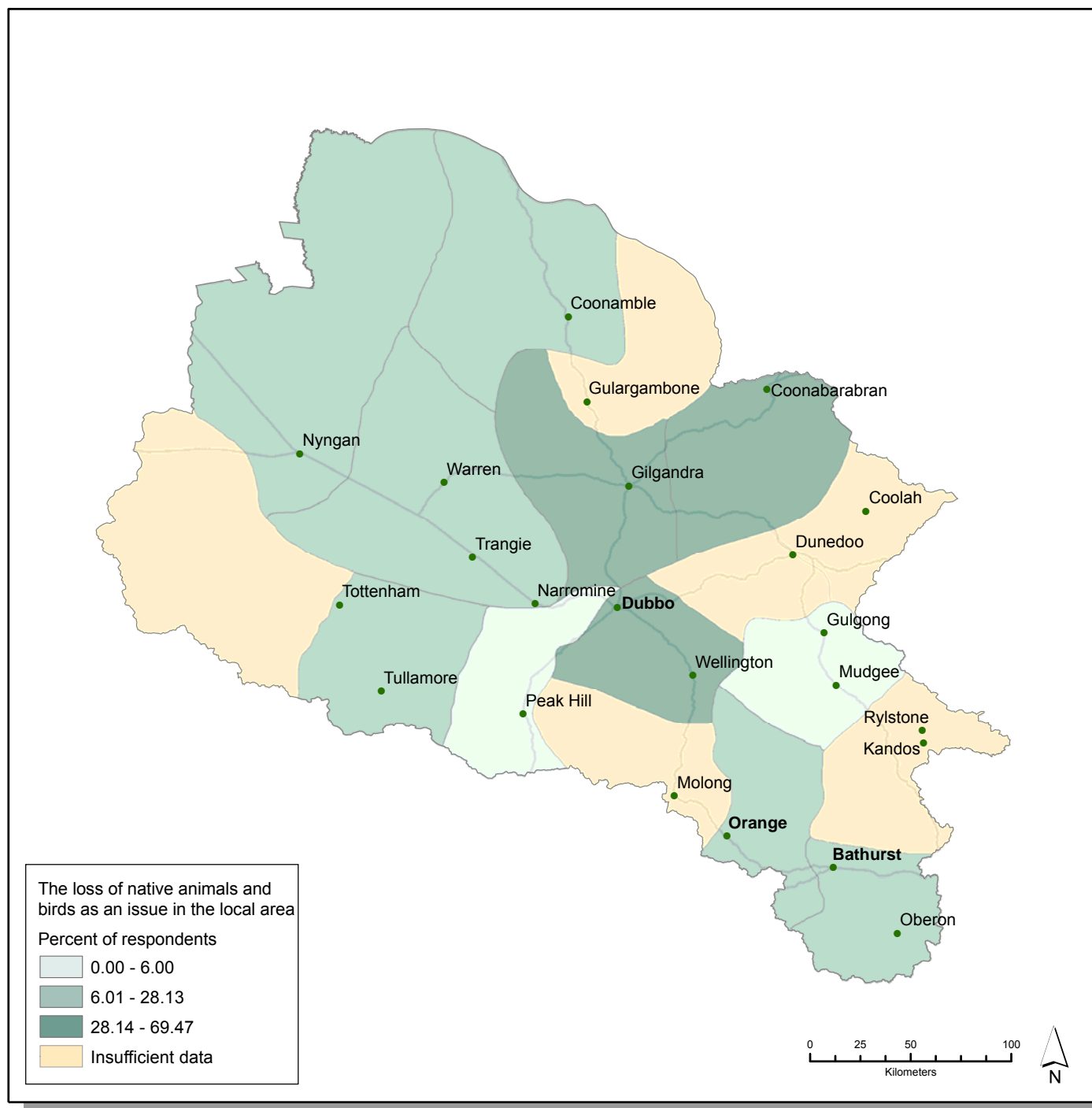
EBC (2007)



56. A DECLINE IN NATIVE ANIMALS IN THE LOCAL AREA



57. LOSS OF NATIVE ANIMALS AND BIRDS IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[Loss of native animals and birds]

Projection: Geographics

Datum: GDA94

Date: October 2007

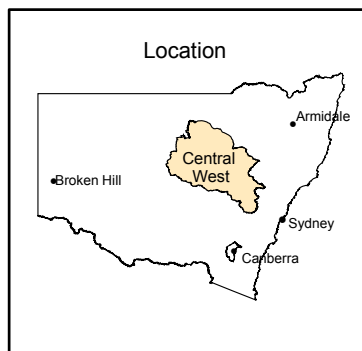
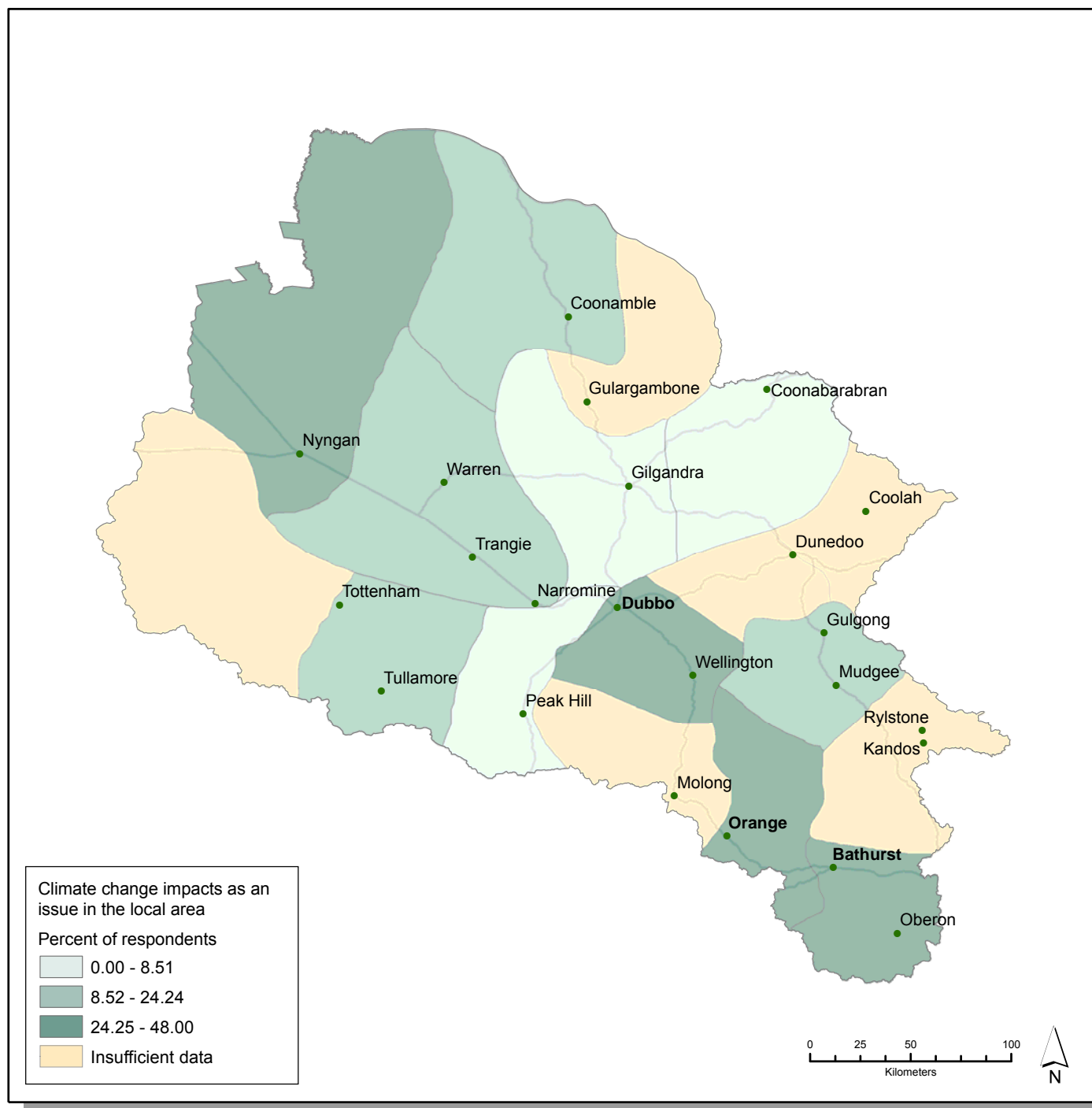
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



58. CLIMATE CHANGE IMPACTS IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[Climate change impacts]

Projection: Geographics

Datum: GDA94

Date: October 2007

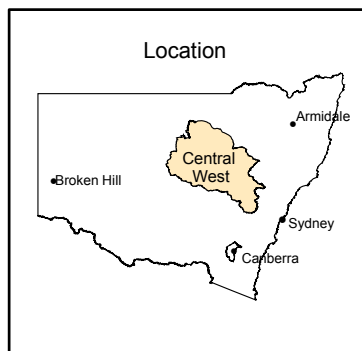
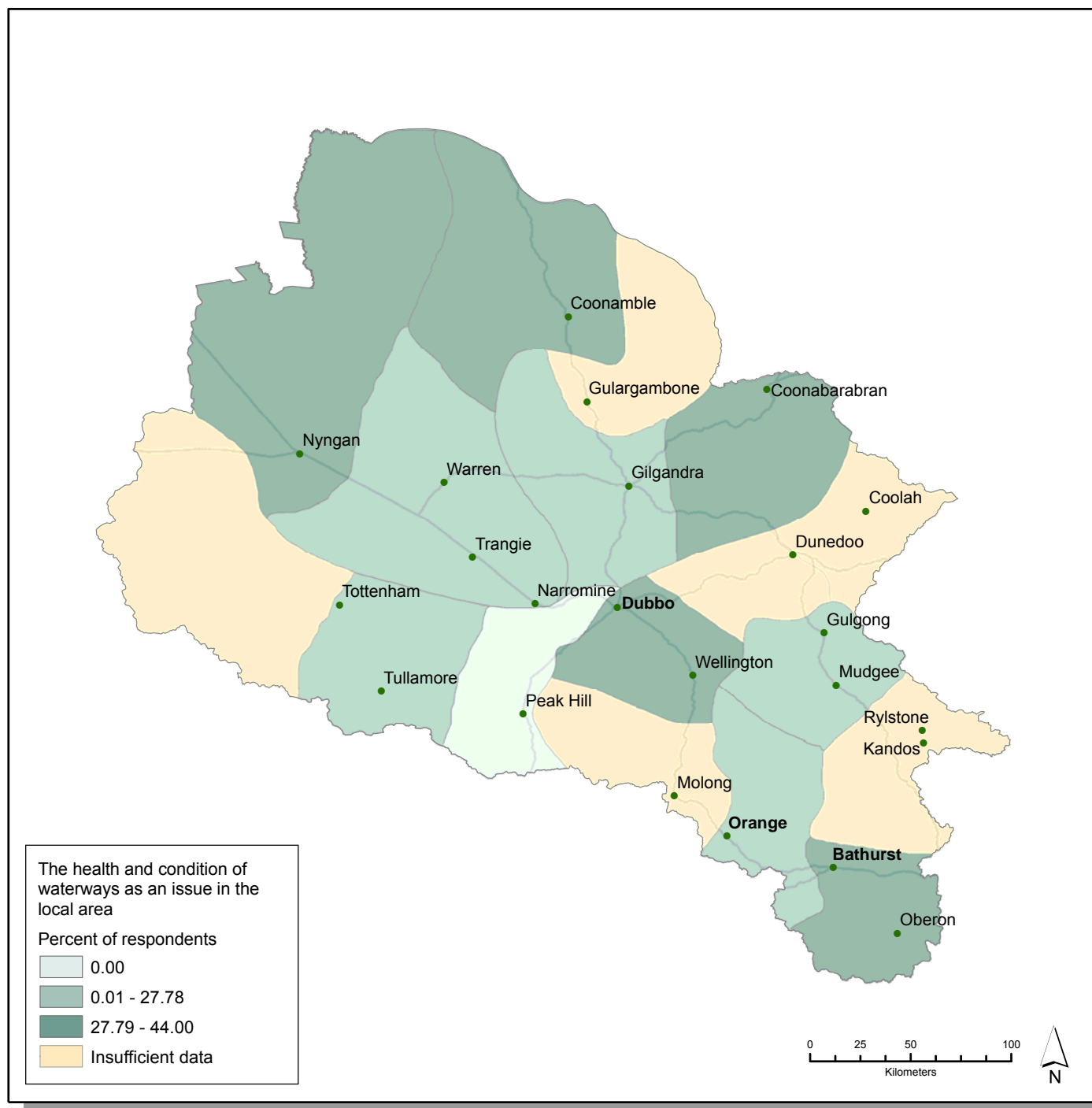
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



59. THE HEALTH OF WATERWAYS IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[The health and condition of waterways]

Projection: Geographics

Datum: GDA94

Date: October 2007

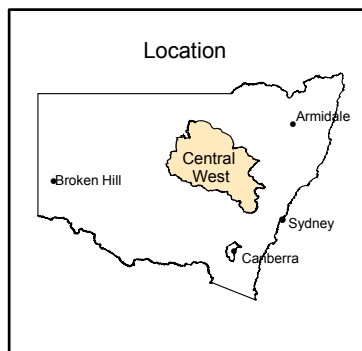
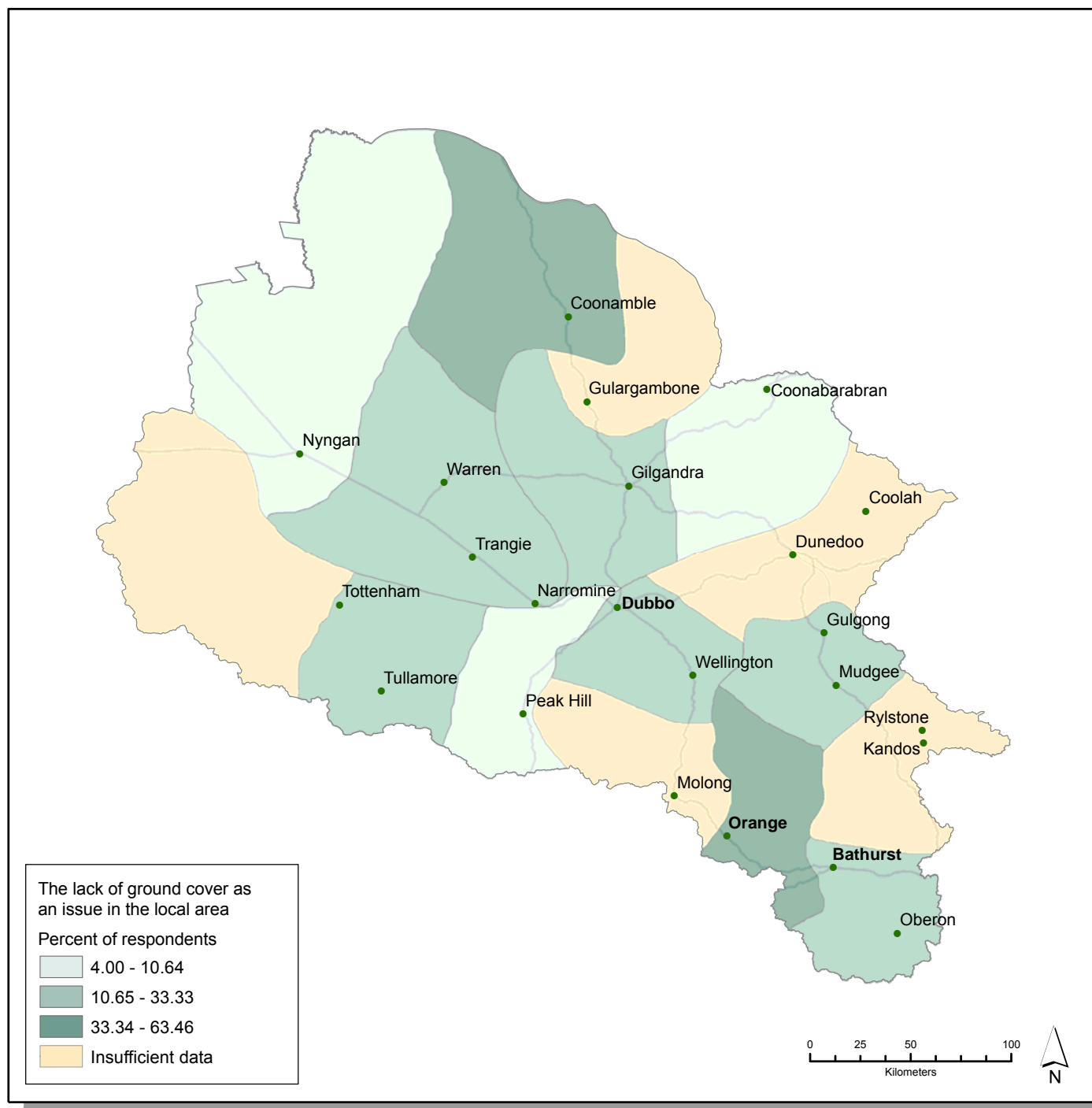
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



60. LACK OF GROUND COVER IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[The lack of ground cover]

Projection: Geographics

Datum: GDA94

Date: October 2007

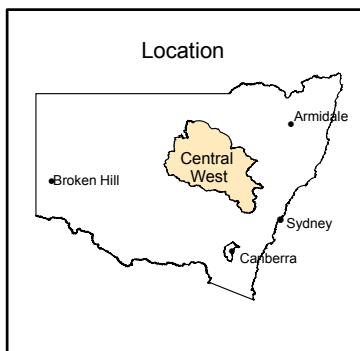
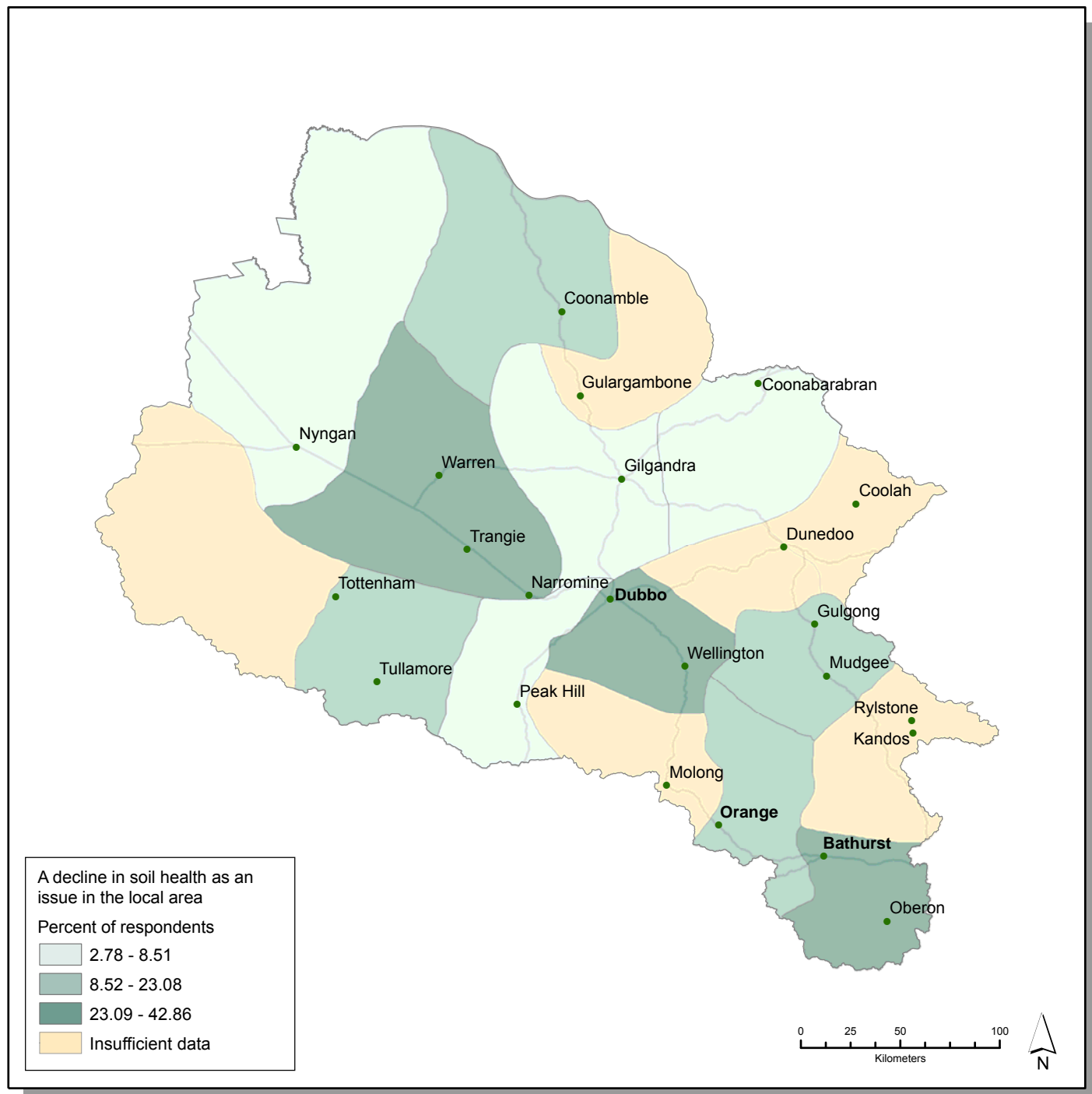
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



61. DECLINE IN SOIL HEALTH IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[A decline in soil health]

Projection: Geographics

Datum: GDA94

Date: October 2007

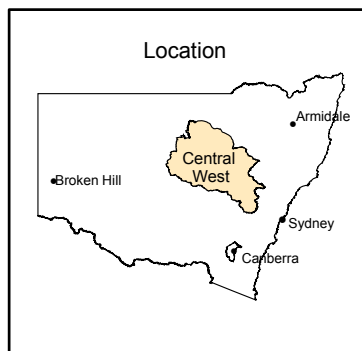
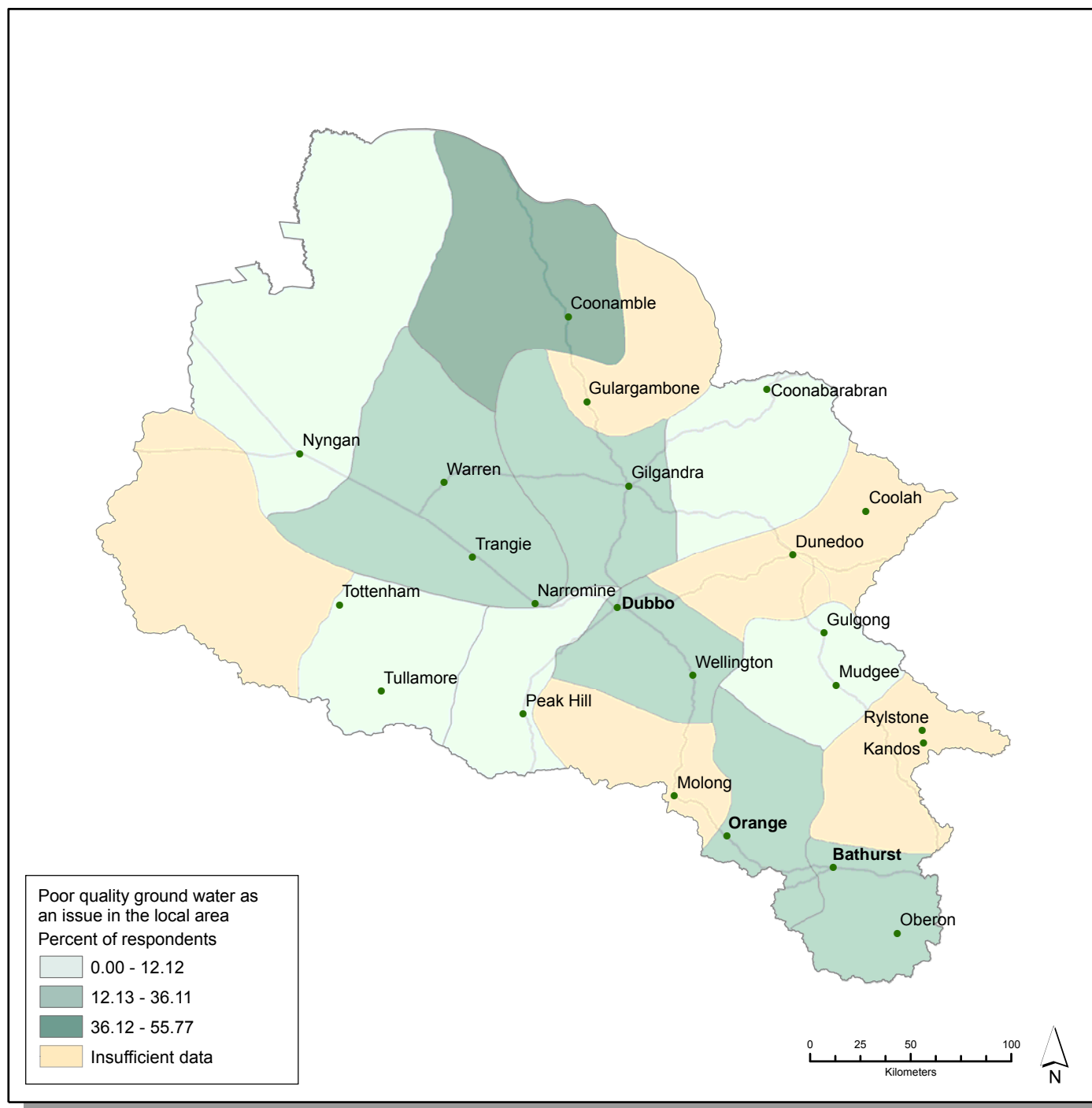
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



62. POOR QUALITY GROUND WATER IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[Poor quality ground water]

Projection: Geographics

Datum: GDA94

Date: October 2007

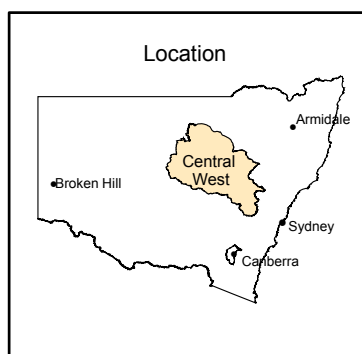
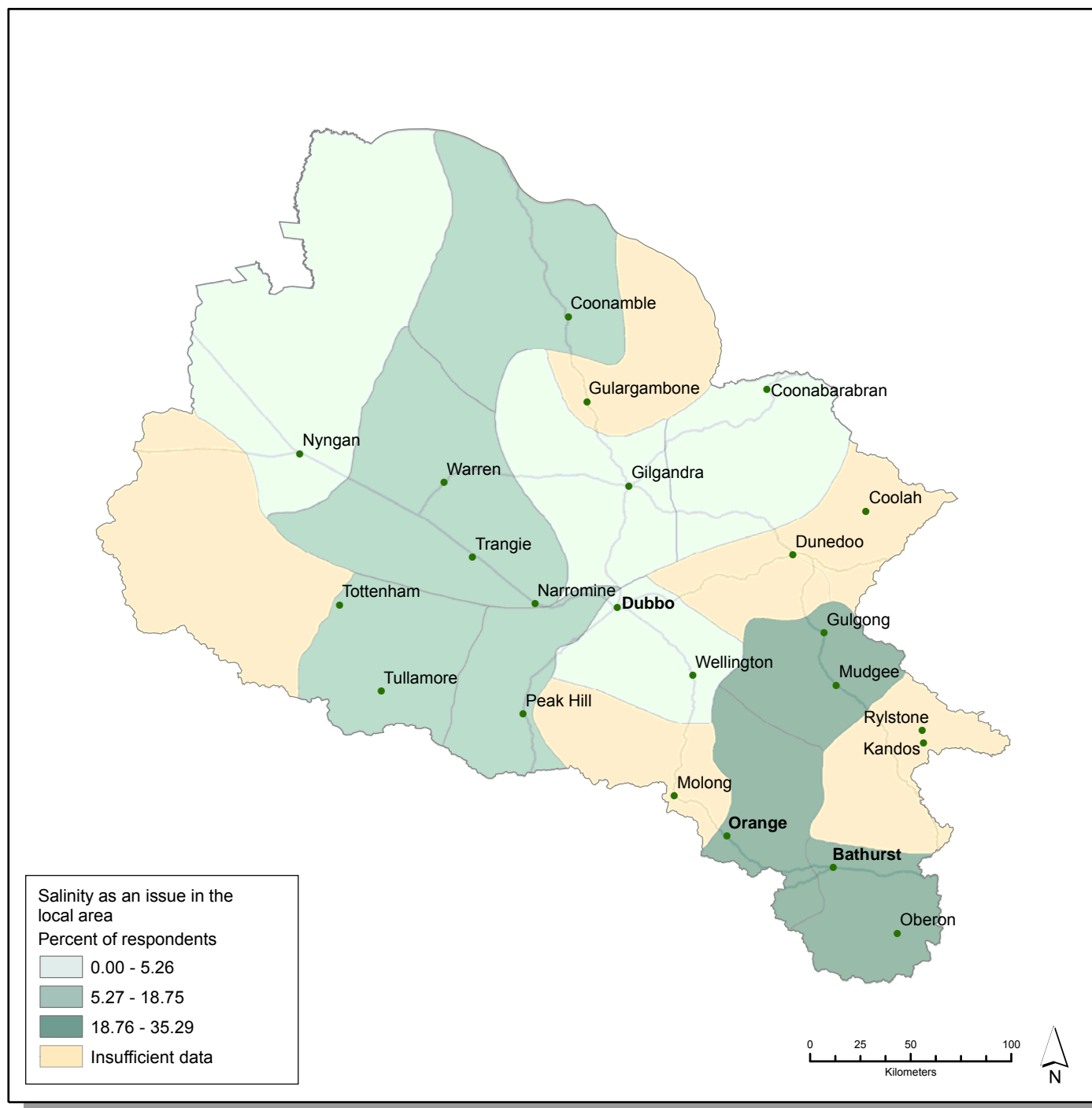
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



63. SALINITY IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?" [Salinity]

Projection: Geographics

Datum: GDA94

Date: October 2007

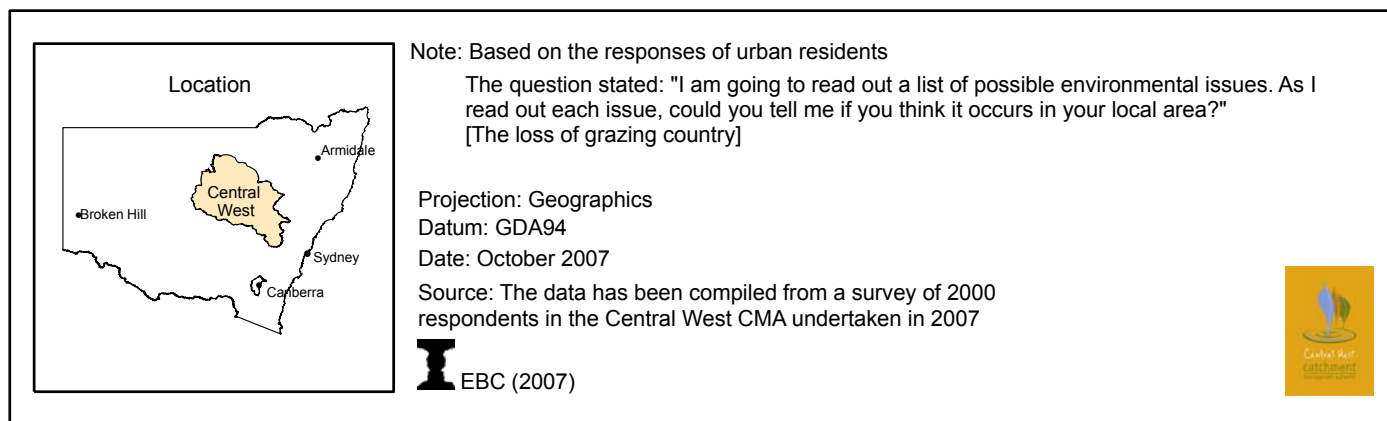
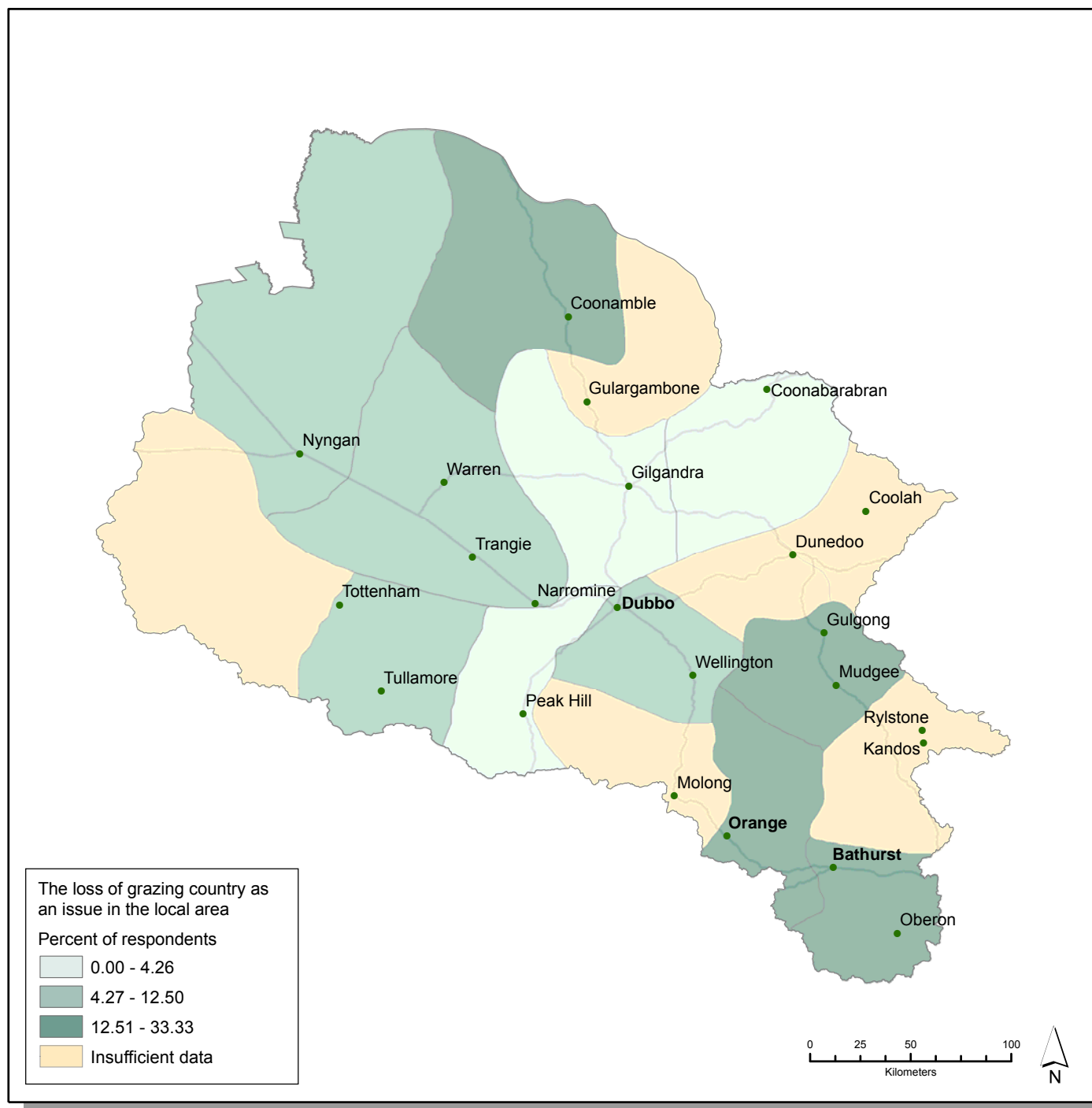
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



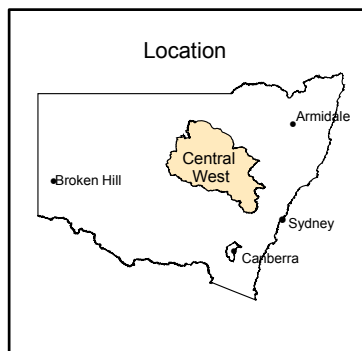
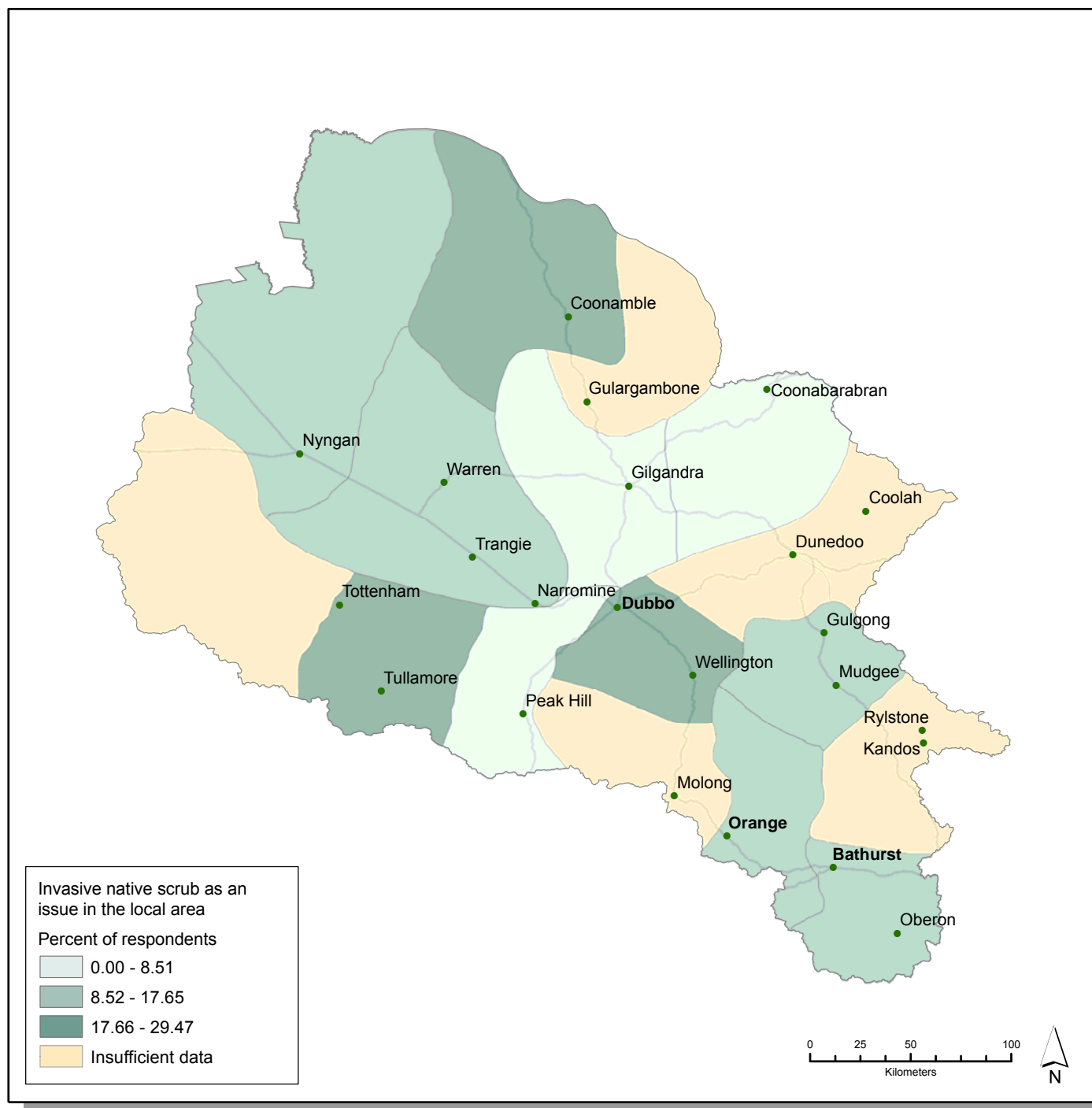
EBC (2007)



64. THE LOSS OF GRAZING COUNTRY IN THE LOCAL AREA



65. INVASIVE NATIVE SCRUB IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[Invasive native scrub]

Projection: Geographics

Datum: GDA94

Date: October 2007

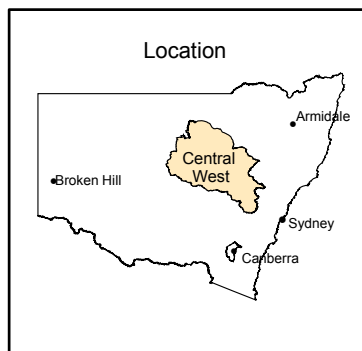
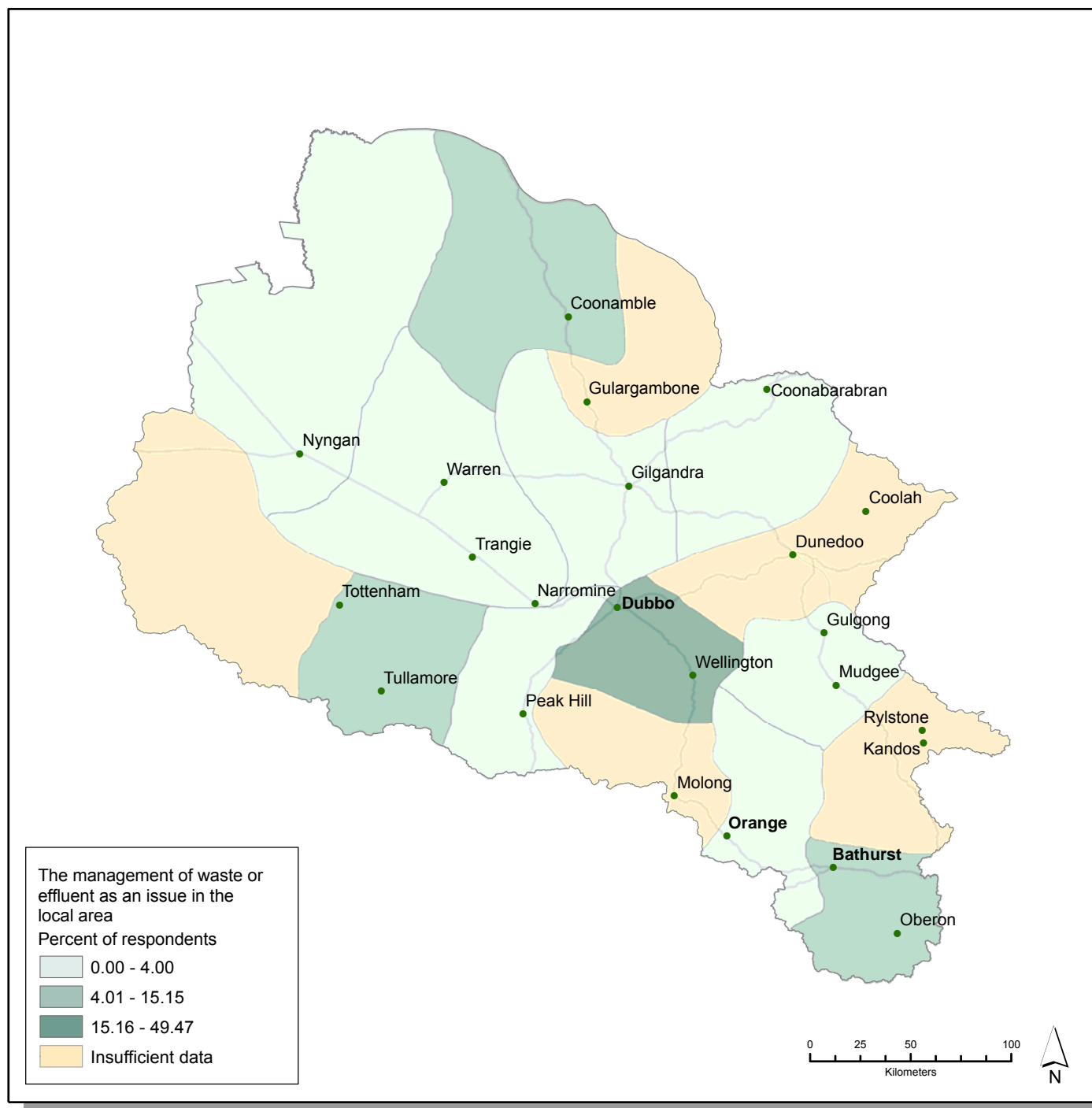
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



66. THE MANAGEMENT OF WASTE IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[The management of waste or effluent]

Projection: Geographics

Datum: GDA94

Date: October 2007

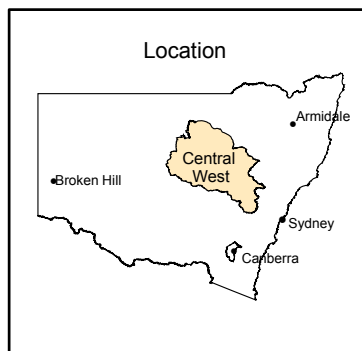
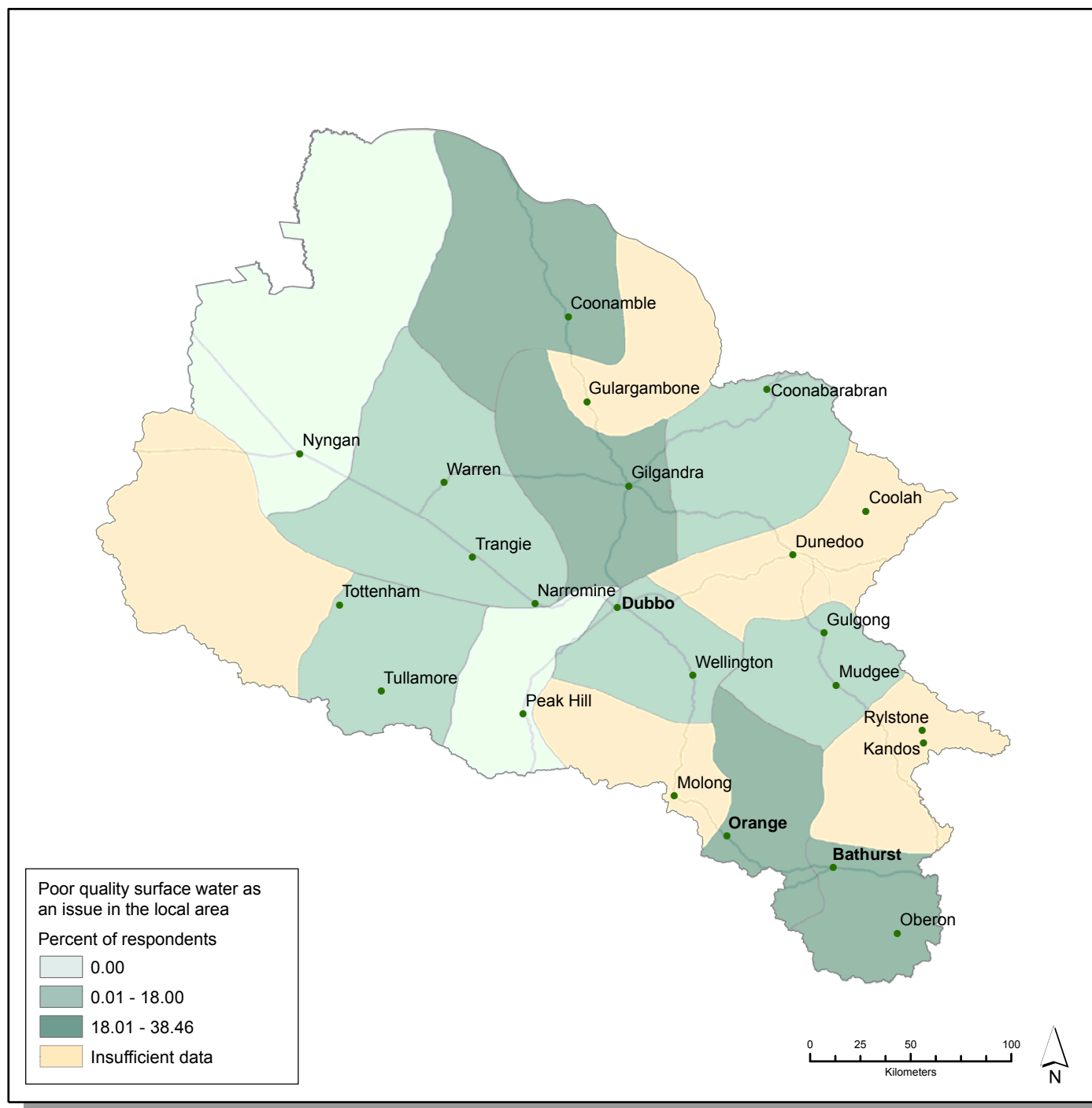
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



67. POOR QUALITY SURFACE WATER IN THE LOCAL AREA



Note: Based on the responses of urban residents

The question stated: "I am going to read out a list of possible environmental issues. As I read out each issue, could you tell me if you think it occurs in your local area?"
[Poor quality surface water]

Projection: Geographics

Datum: GDA94

Date: October 2007

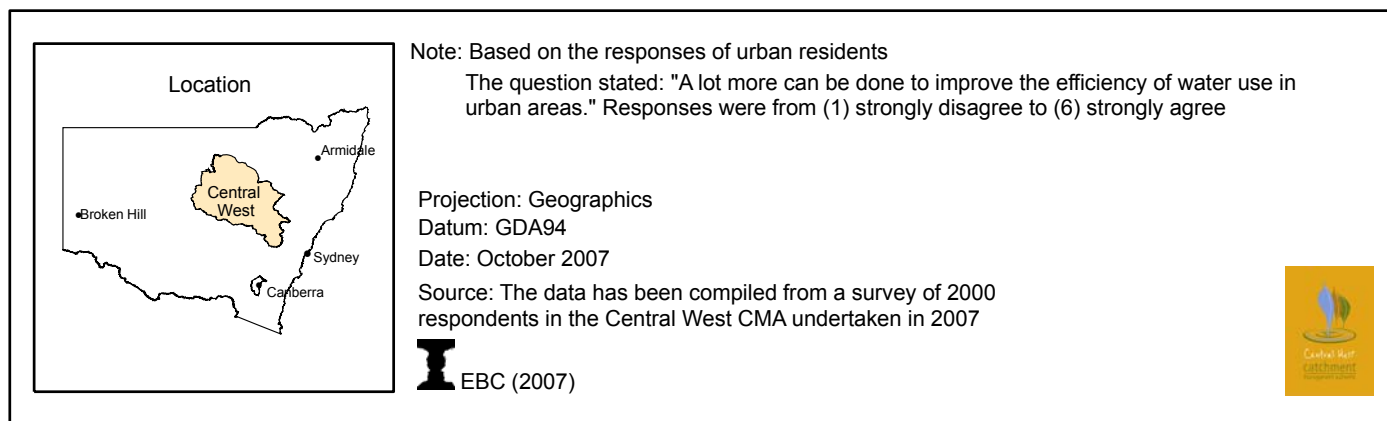
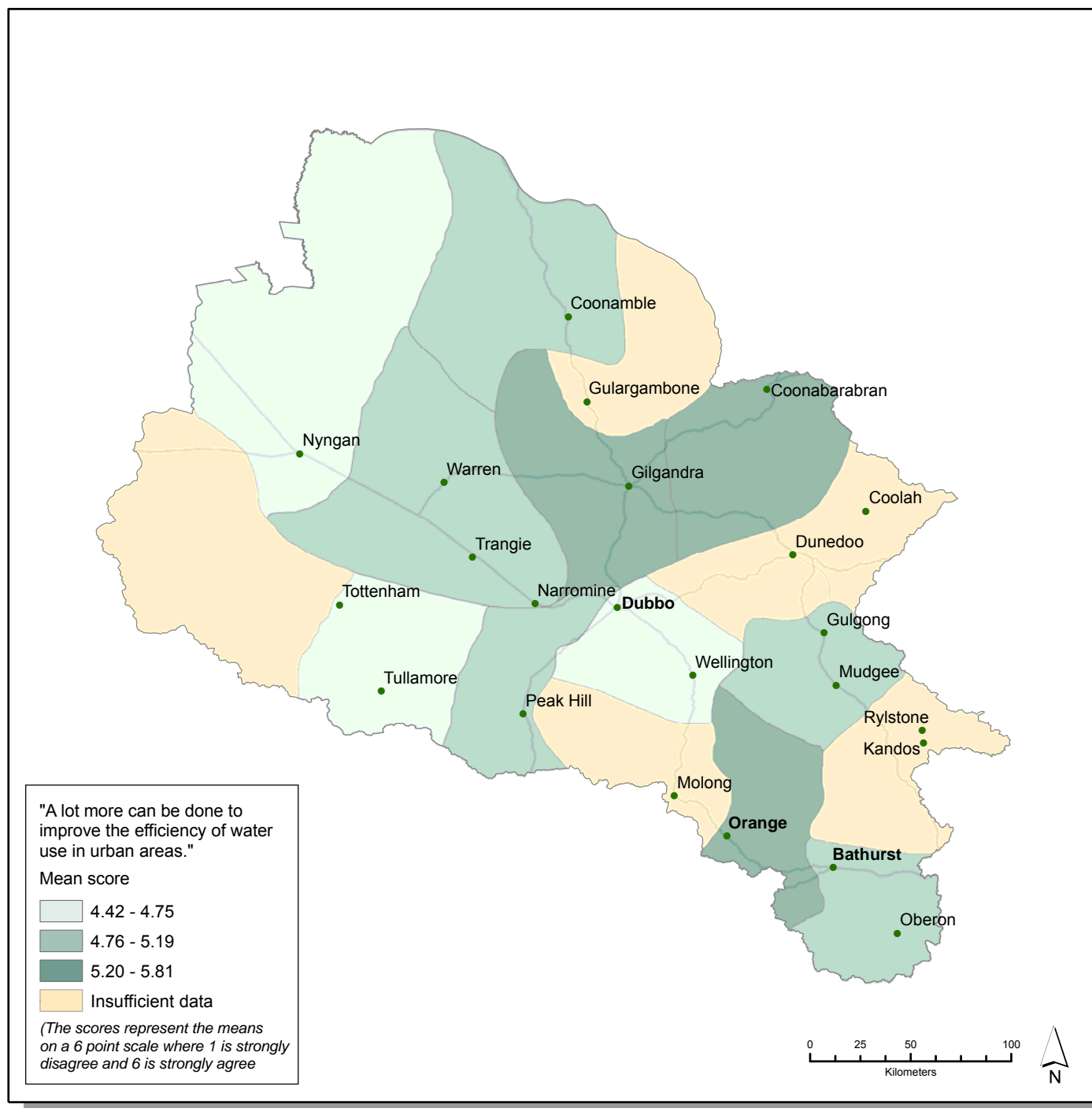
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



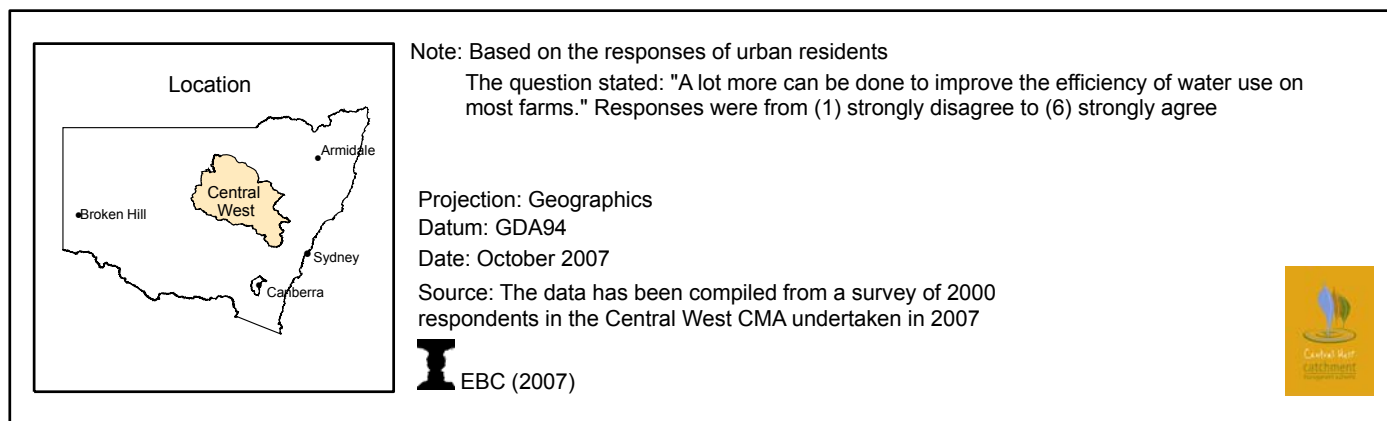
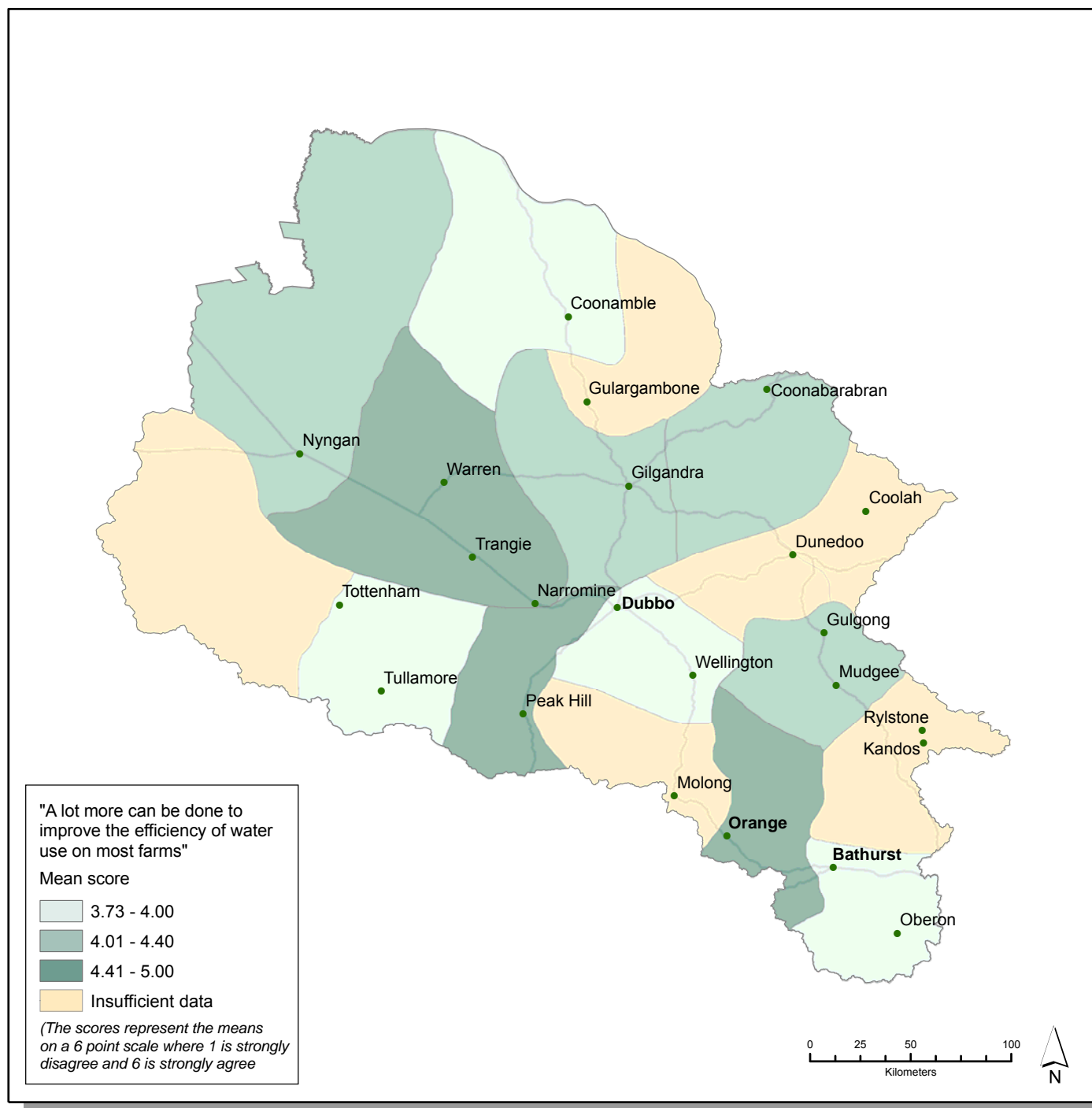
EBC (2007)



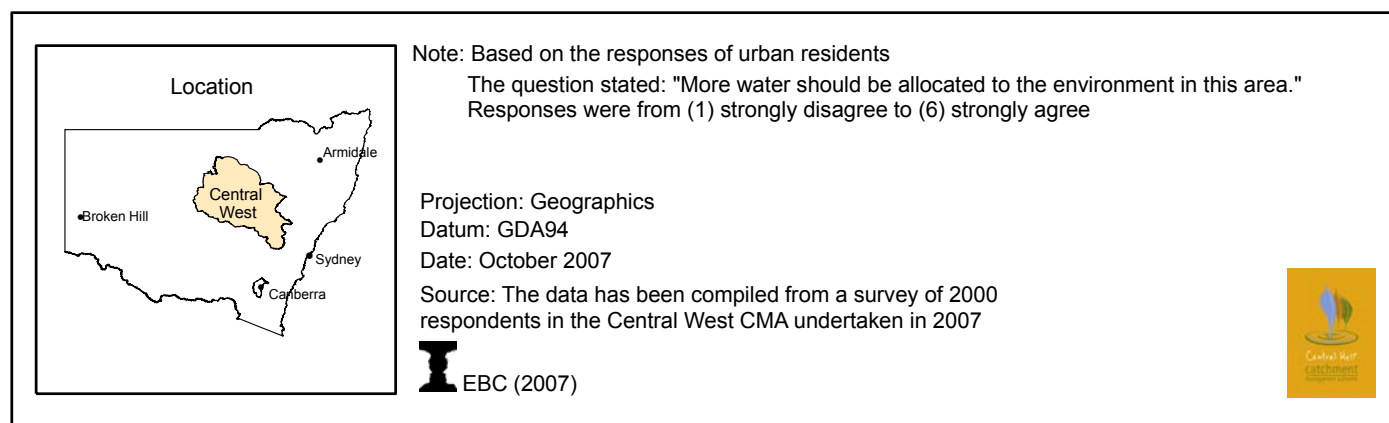
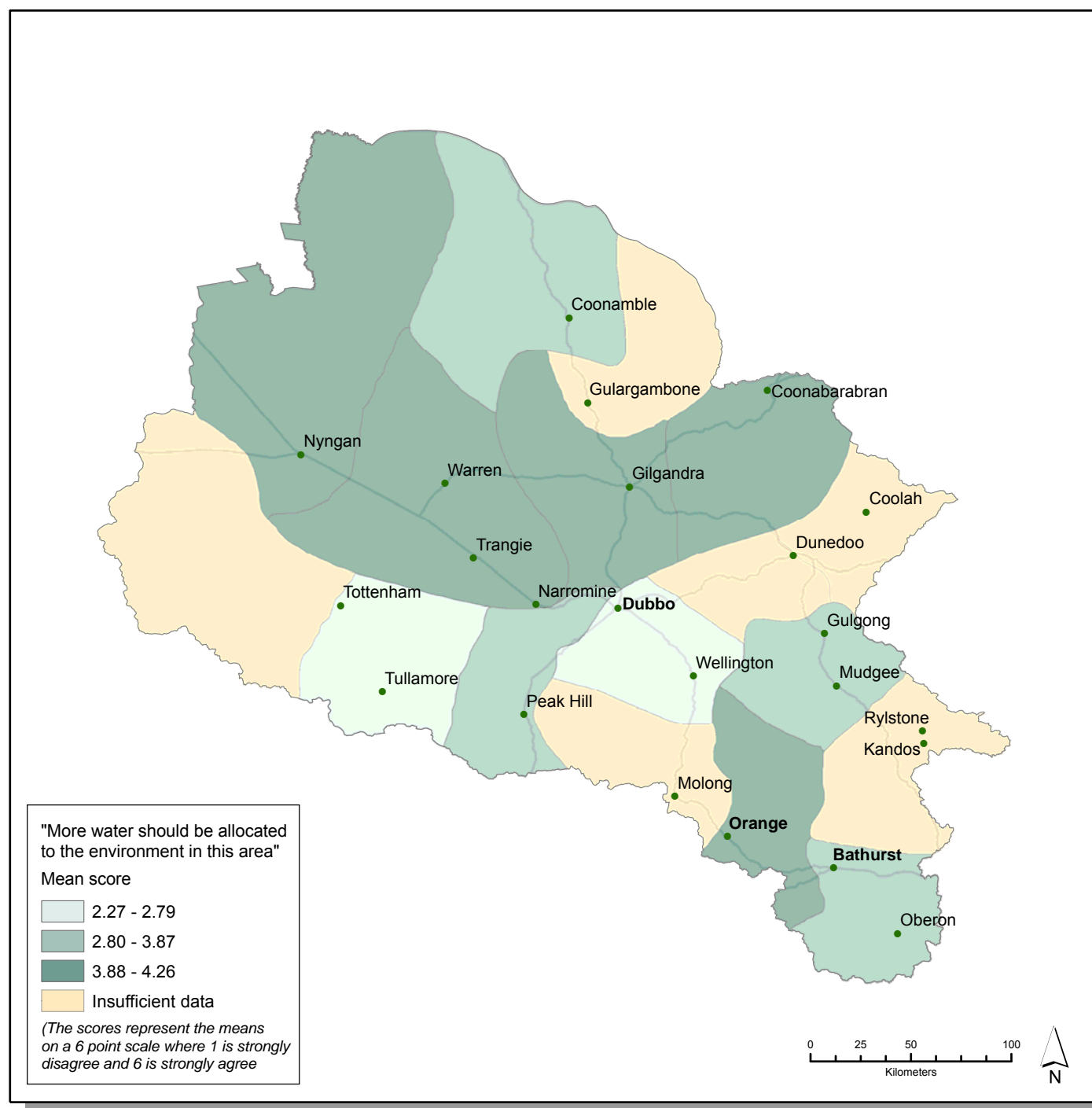
68. WATER EFFICIENCY AND USE IN URBAN AREAS



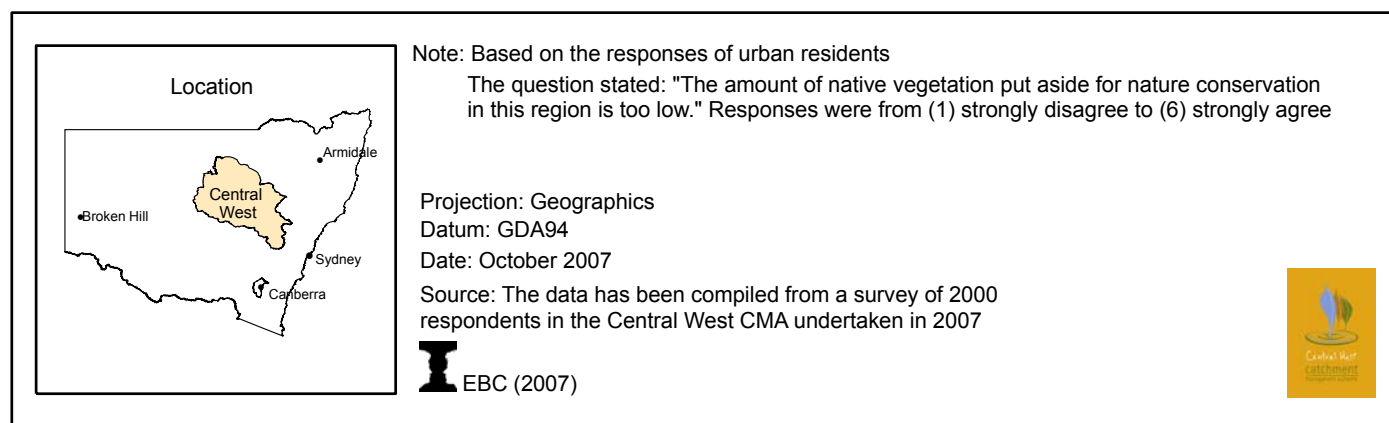
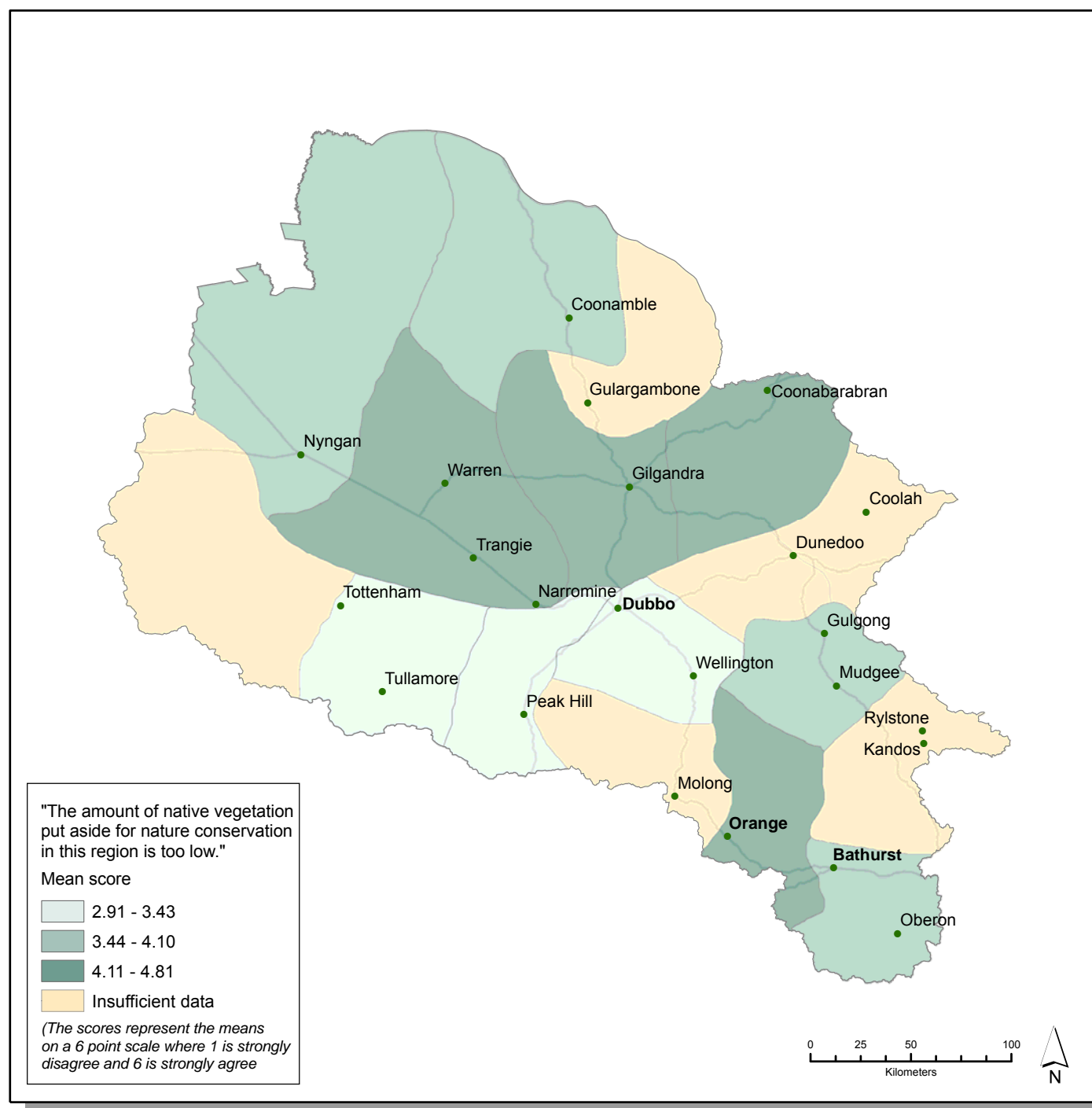
69. WATER EFFICIENCY AND USE ON FARMS



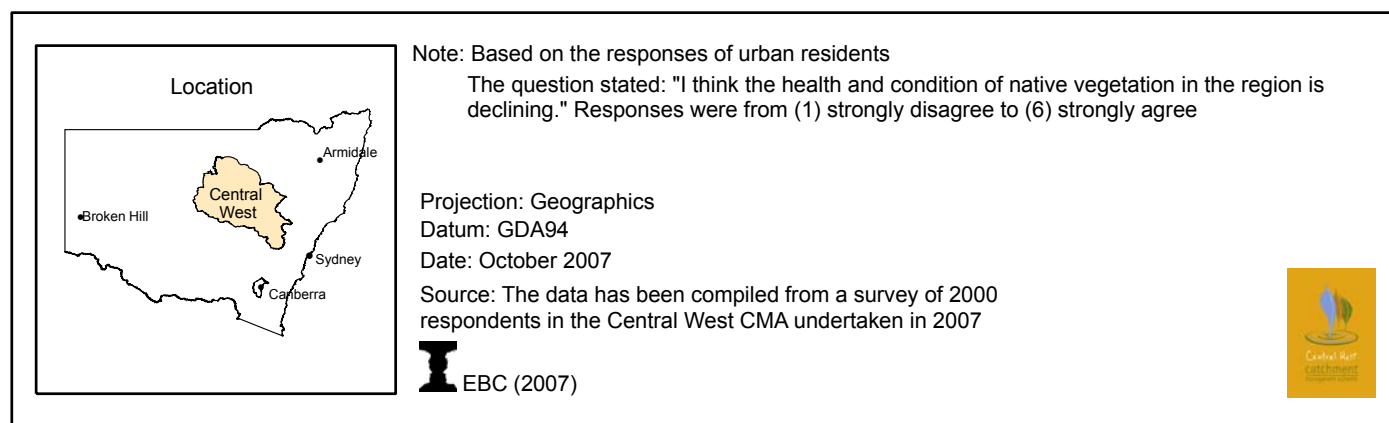
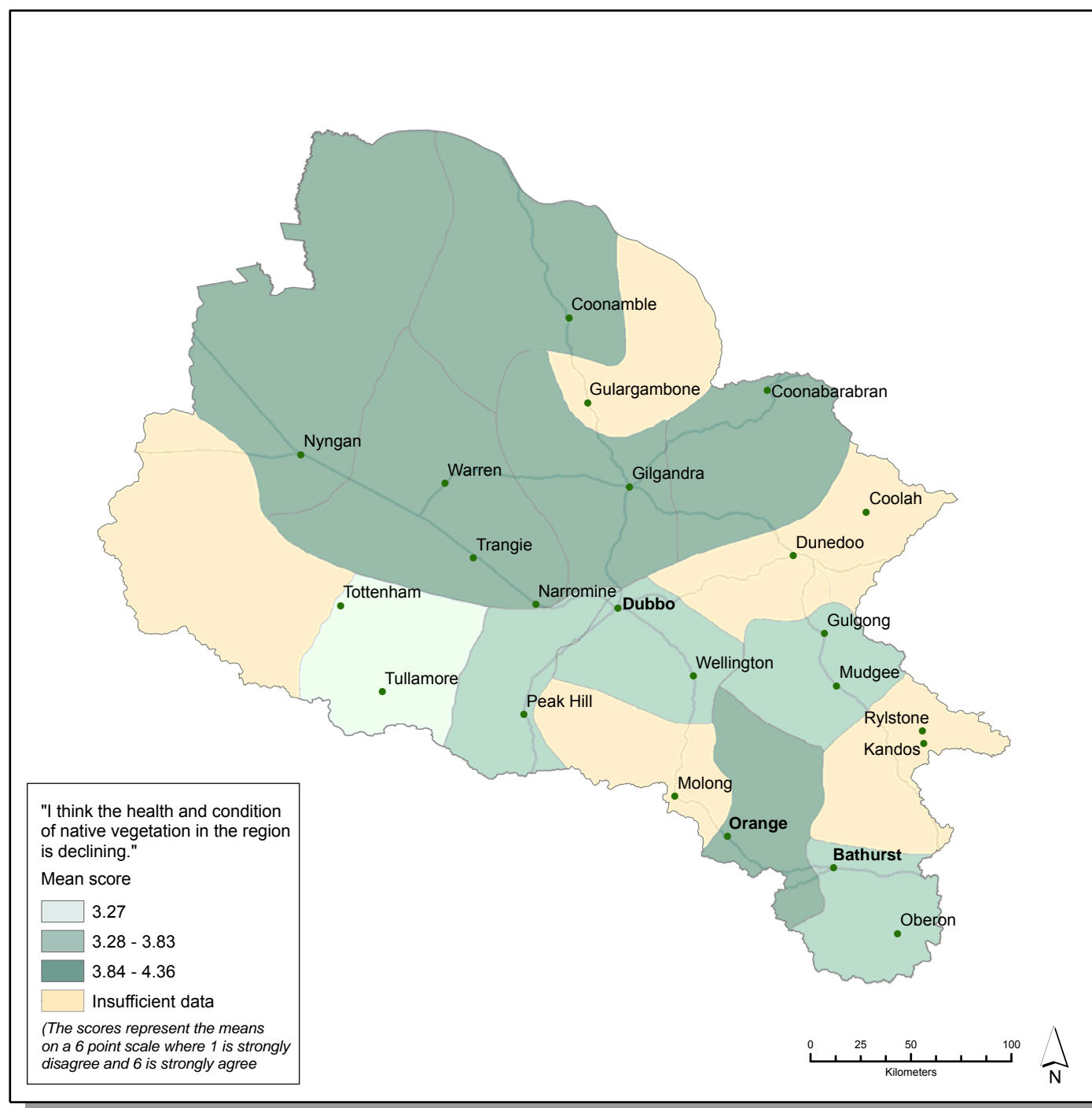
70. ALLOCATING WATER TO THE ENVIRONMENT



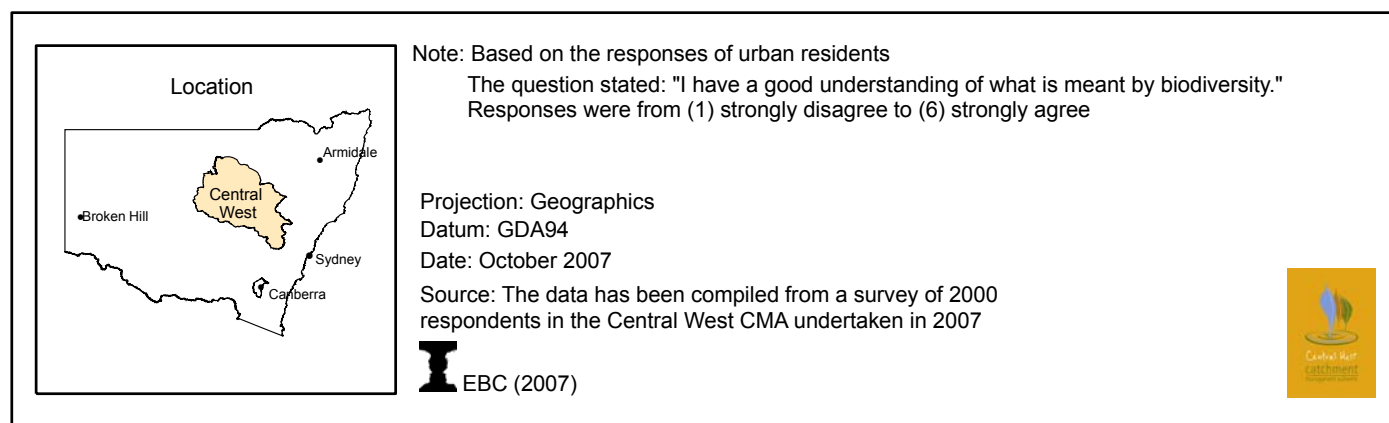
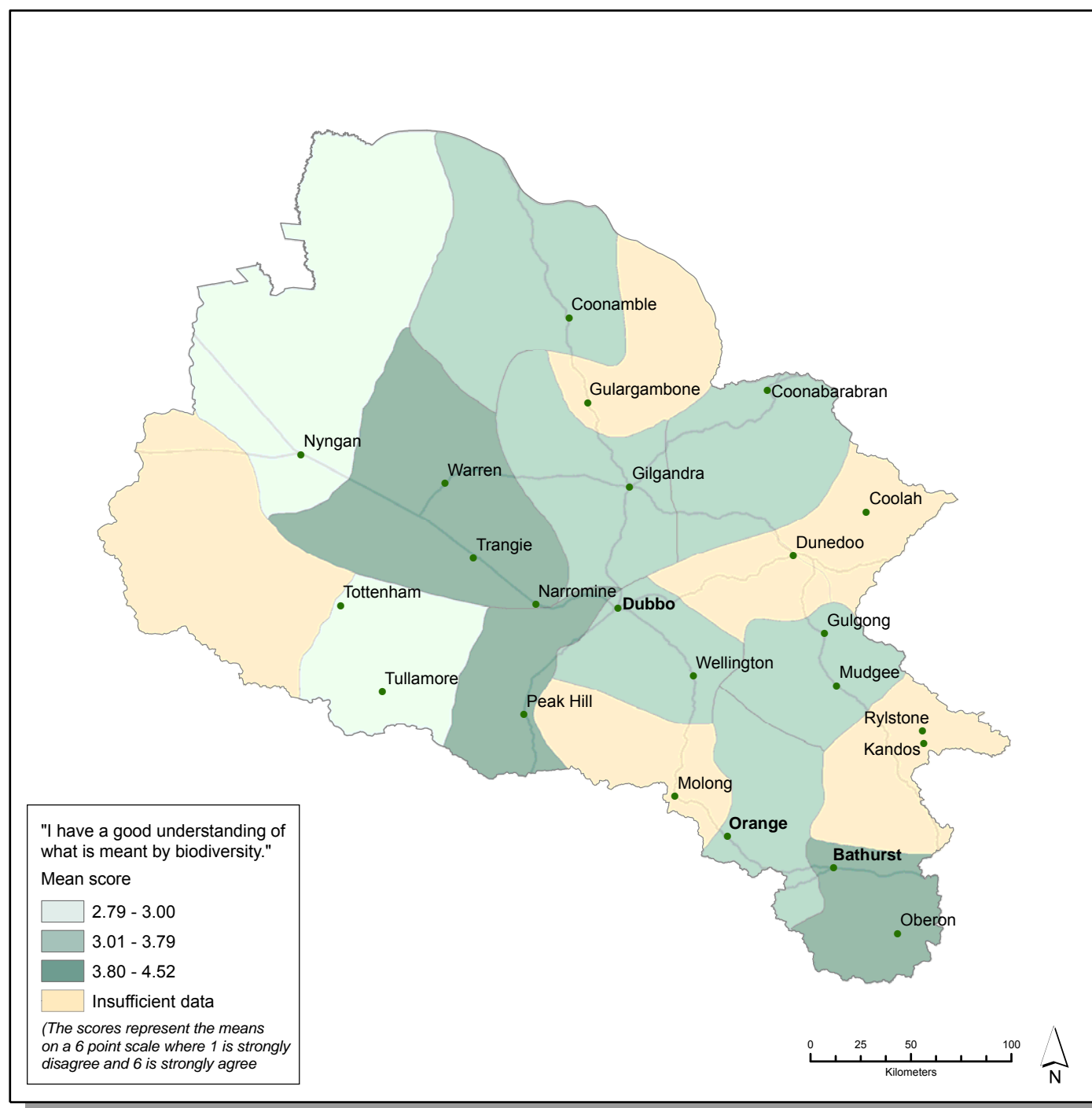
71. CONSERVATION OF NATIVE VEGETATION



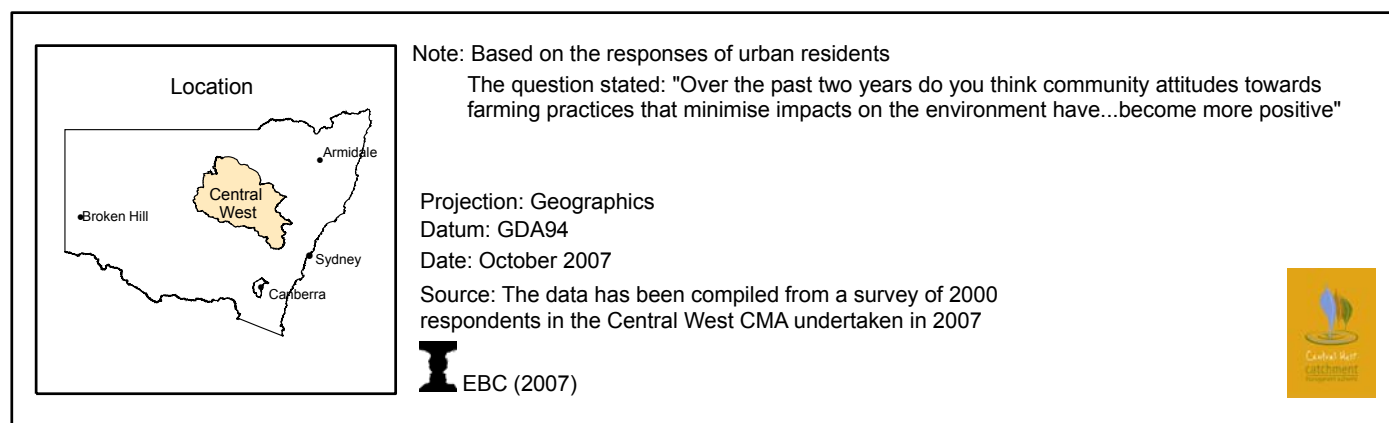
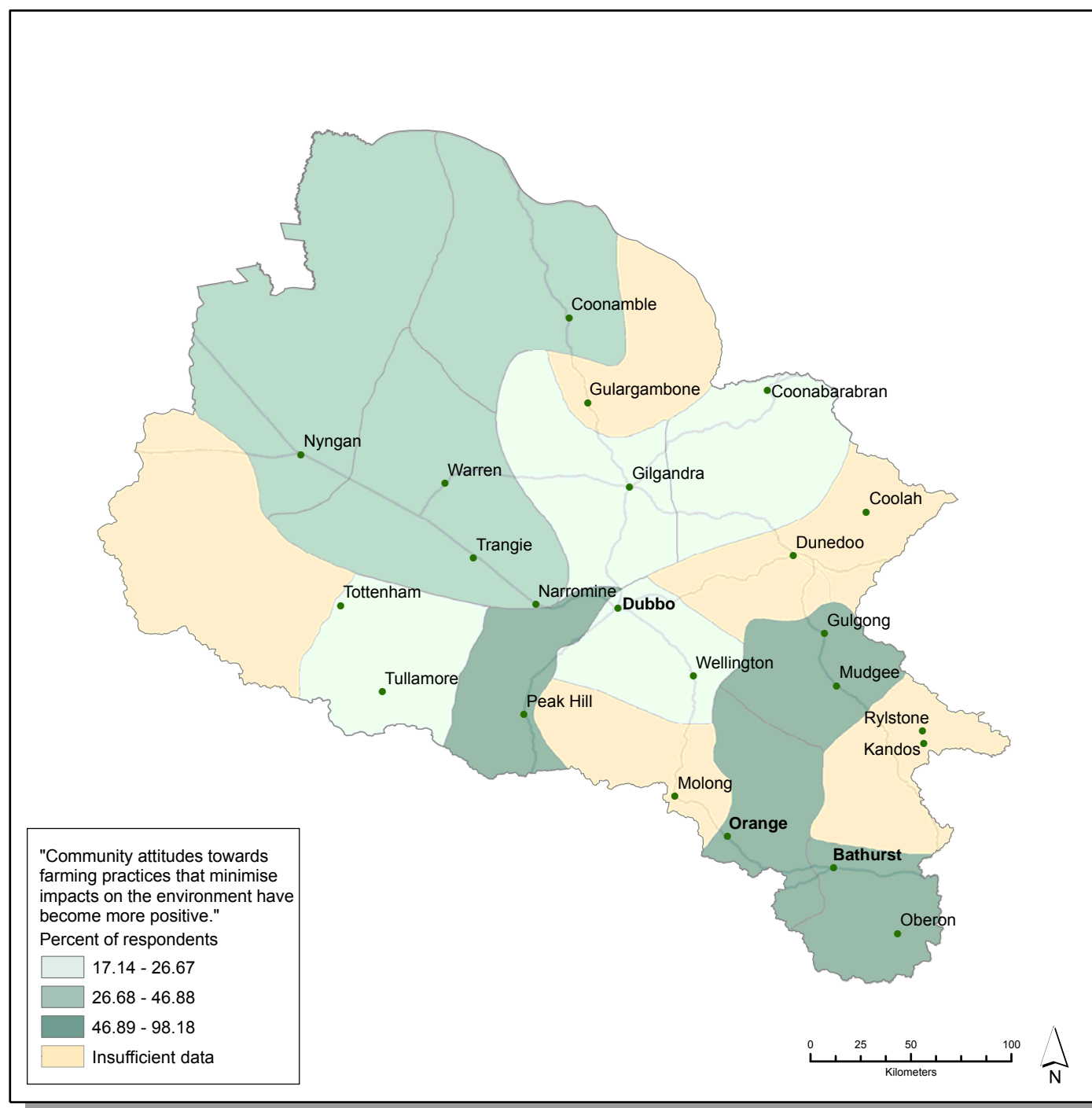
72. THE HEALTH OF NATIVE VEGETATION



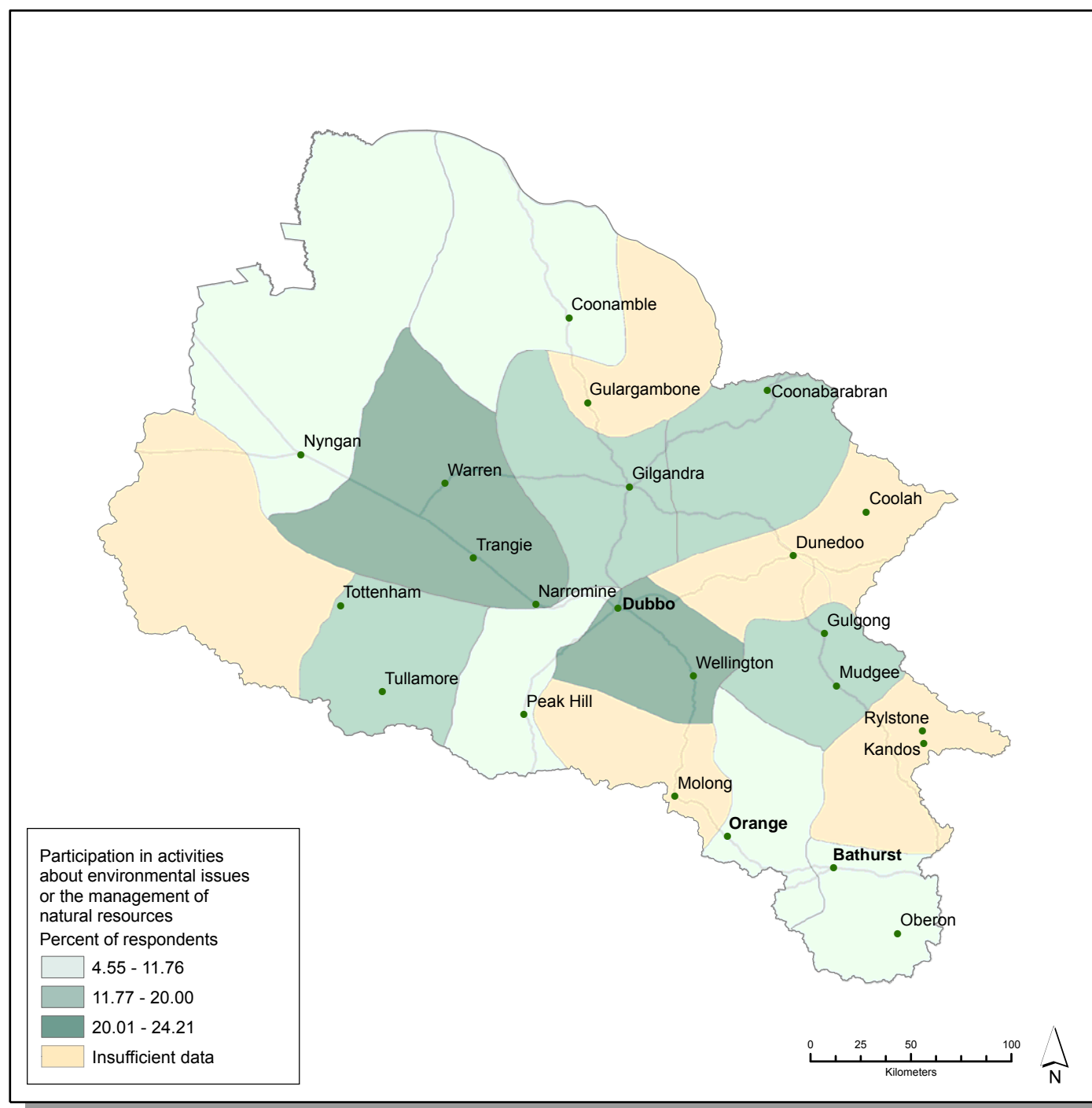
73. KNOWLEDGE OF BIODIVERSITY



74. COMMUNITY ATTITUDES TOWARDS FARMING PRACTICES



75. PARTICIPATION IN ORGANISED NRM ACTIVITIES



Note: Based on the responses of urban residents

The question stated: "In the last two years have you participated in any organised meetings or activities about environmental issues or the management of natural resources in your local area, such as Landcare?"

Projection: Geographics

Datum: GDA94

Date: October 2007

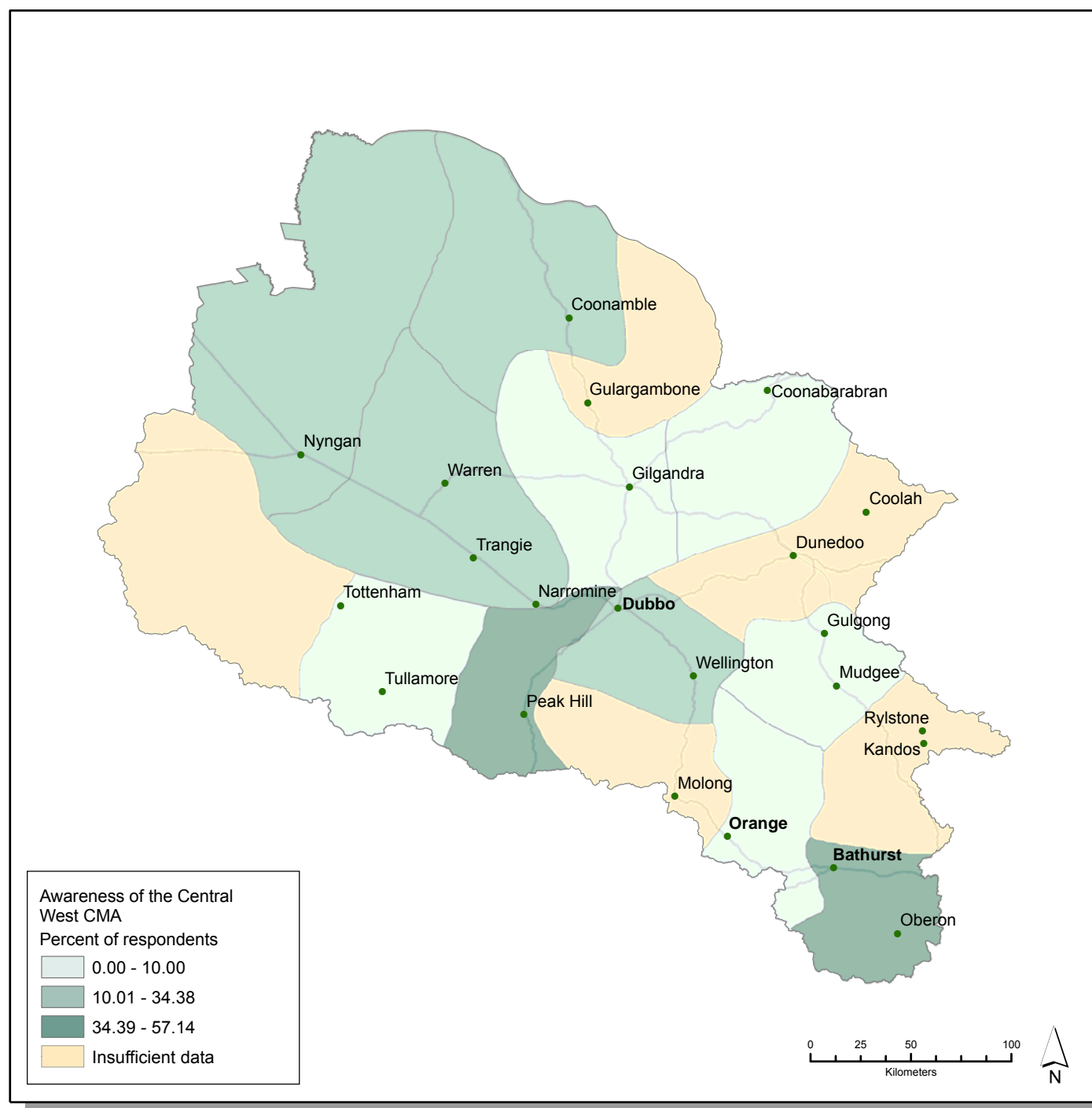
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



76. AWARENESS OF THE CENTRAL WEST CMA



Note: Based on the responses of urban residents

The question stated: "Have you heard of the Central West Catchment Management Authority or CMA?"

Projection: Geographics

Datum: GDA94

Date: October 2007

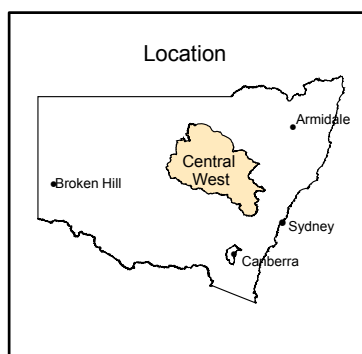
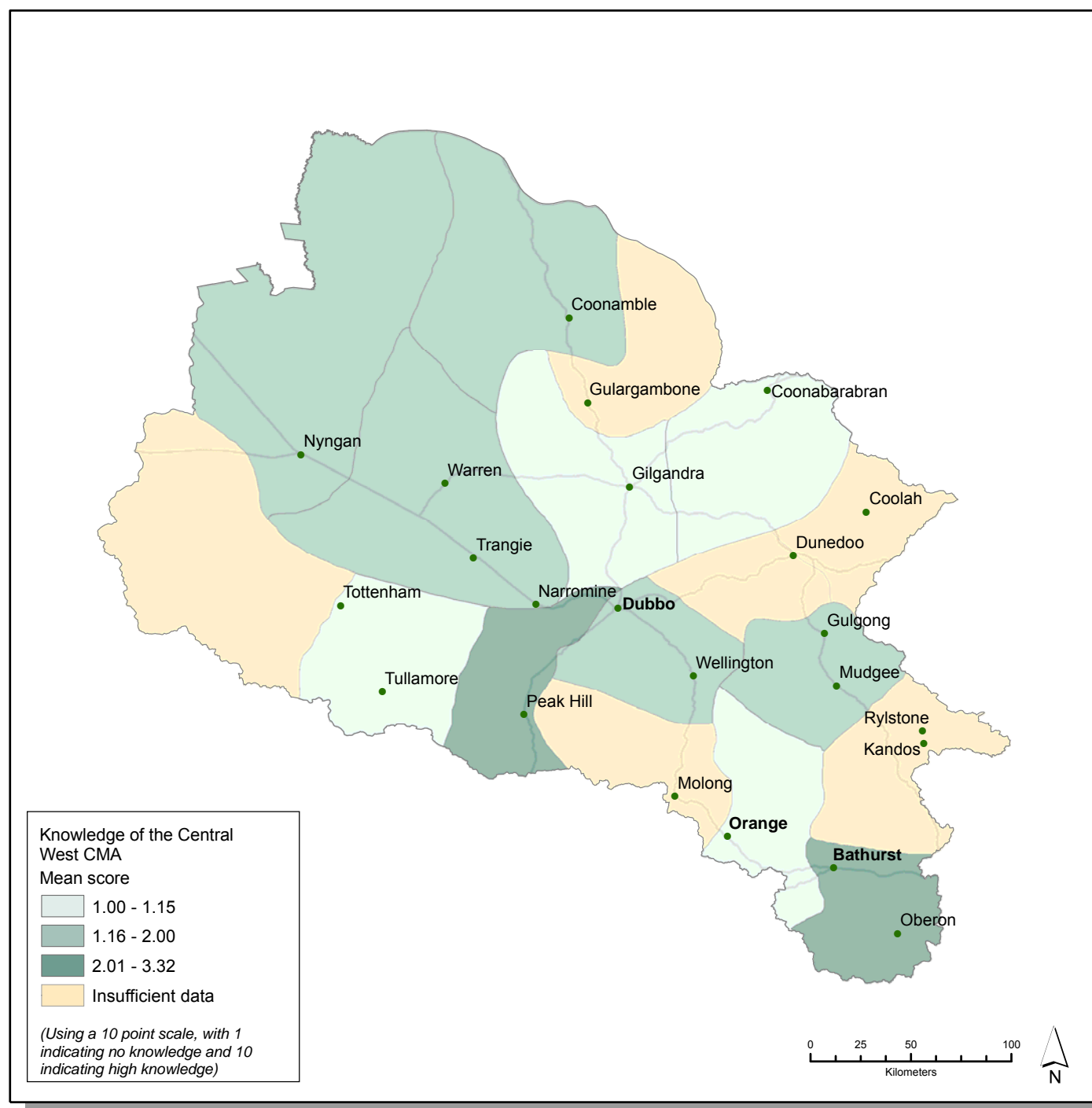
Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)



77. KNOWLEDGE OF THE CENTRAL WEST CMA



Note: Based on the responses of urban residents

The question stated: "If you were to give yourself a score from one (1) to ten (10) in relation to your knowledge of the Central West Catchment Management Authority, with one (1) being no knowledge at all and ten (10) being all the knowledge anyone could have, what score would you give yourself?"

Projection: Geographics

Datum: GDA94

Date: October 2007

Source: The data has been compiled from a survey of 2000 respondents in the Central West CMA undertaken in 2007



EBC (2007)

