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THE AUSTRALIAN NATURAL DISASTER RESILIENCE INDEX

VOLUME II – INDEX DESIGN AND COMPUTATION

Chapter 1 – Design of the Index





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CHAPTER 1 – DESIGN OF THE AUSTRALIAN NATURAL DISASTER RESILIENCE INDEX

In this chapter

- Section 1.1 Presents the conceptual basis of the Australian Natural Disaster Resilience Index.
- Section 1.2 Describes the structure of the index, including its hierarchical structure, and the themes of disaster resilience.
- Section 1.3 Outlines the spatial resolution and areas of Australia included in the index.





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1.1 CONCEPTUAL BASIS OF THE AUSTRALIAN NATURAL DISASTER RESILIENCE INDEX

The Australian Natural Disaster Resilience Index assesses the resilience of communities to natural hazards at a national scale. The conceptual framework for the Australian Natural Disaster Resilience Index is published in a peer reviewed article, available as open access from the journal's website:

Parsons, M., Glavac, S., Hastings, P., Marshall, G., McGregor, J., McNeill, J., Morley, P., Reeve, I. and Stayner, R. 2016. Top-down assessment of disaster resilience: A conceptual framework using coping and adaptive capacities. *International Journal of Disaster Risk Reduction*, 19: 1-11.

The following section summarises the key conceptual underpinnings of the index.

1.1.1 Disaster resilience

There are two prominent schools of thought about the influence of natural hazards in human societies. One school of thought derives from a vulnerability perspective where distributional inequalities in physical, social, economic and environmental factors influence the susceptibility of people to harm and the ability of people to respond to hazards factors (Cutter et al. 2003; Birkmann 2006). The second school of thought derives from a resilience perspective where people are learning to live with a changing, unpredictable and uncertain environment. Human societies interact with their environment and the environment influences human societies within a social-ecological system, of which natural hazards are a part. In this school of thought, resilience is the capacity of a community to cope with disturbances or changes and to maintain adaptive behaviours (Maguire and Cartwright 2008). Important in this view of resilience is the notion of adaptation, where adaptation and transformation can be proactive for future events, or reactive in response to an event that has already occurred (Handmer and Dovers 1996; Engle 2011). Learning from experience and a focus on review and adjustment helps to build resilience to future events.

We have adopted the resilience school of thought for the Australian Natural Disaster Resilience Index (although we do pay heed to the way that distributional inequalities influence resilience). We view resilience as a process linking a set of capacities to a positive trajectory of functioning and adaptation after a disturbance (sensu Norris et al. 2008). The definition of natural hazard resilience that we adopt for the Australian Natural Disaster Resilience Index is:

Resilience is the capacity of communities to prepare for, absorb and recover from natural hazard events and to learn, adapt and transform in ways that enhance these capacities in the face of future events.



Implicit in this definition are three important elements of the index. First, we are concerned with capacities – or potential – for resilience, not the actual realization of resilience in a particular hazard event. Second, learning, adaptation and transformation are central to resilience because they provide a strategic feedback loop back to the capacities of preparation, coping and recovery (Berkes 2007; O’Neill and Handmer 2012). Learning, adaptation and transformation are also mechanisms for adjusting responses and behaviour and provide flexibility for facing an uncertain, unpredictable future (Berkes 2007). Flexibility is an important element of disaster resilience because natural hazard events will continue to occur, but we do not know where, when, or of what magnitude these events will be. Third, we prefer the term natural hazard events rather than natural disasters because with appropriate preparation, natural hazard events can occur but not result in natural disasters (Annan 2003). However, the terms natural hazards and natural disasters are sometimes used interchangeably to mean any natural hazard event – floods, fires, storms, tsunami, cyclones and so forth – that potentially disrupt and cause loss in society. Natural disaster is also a preferable term for communicating with the general public.

The Australian Natural Disaster Resilience Index assesses resilience based on two sets of capacities – coping capacity and adaptive capacity:

- Coping capacity is the means by which people or organisations can use available resources and abilities to face adverse consequences that could lead to a disaster (*sensu* UNISDR 2009). In a practical sense, coping capacity relates to the factors influencing the ability of a community to prepare for, absorb and recover from a natural hazard event.
- Adaptive capacity is the arrangements and processes that enable adjustment through learning, adaptation and transformation. Adaptation is the ability of a system to modify or change its characteristics or behaviour to cope with actual or anticipated stresses (Folke et al. 2002). Adaptive capacity entails the existence of institutions and networks that learn and store knowledge and experience, create flexibility in problem solving and balance power among interest groups (Folke et al. 2002).

Together, these coping and adaptive capacities form the core of our assessment of resilience to natural hazards (Figure 1.1). However, there are two factors which contextualise the assessment of disaster resilience. First, the assessment takes an all-natural-hazard approach and assumes that the coping and adaptive capacities enable resilience to all types of natural hazards. The types of natural hazards occurring in a location are not considered as part of the index (Figure 1.1). The intent is that spatial outputs from the assessment of disaster resilience can be overlaid onto existing natural hazard risk maps to examine the intersection between prevailing natural hazards and the



capacities for disaster resilience. Second, external drivers and linkages, such as broad demographic and economic trends, regional development and environmental change also influence the application of the index in policy and strategic planning, but are not included in the assessment (Figure 1.1).

It is also important to define what we mean by the term community. A community can be seen as sharing a common place or location (Jenkins 2013). A community can also be seen as sharing a common interest, or a common attachment (Jenkins 2013). In this project we take the first view of community – that is, a community shares a common location. This view is further moderated by the finest resolution at which we are collecting data – Statistical Area Level 2 area in the Australian Bureau of Statistics census data (see Section 1.3).

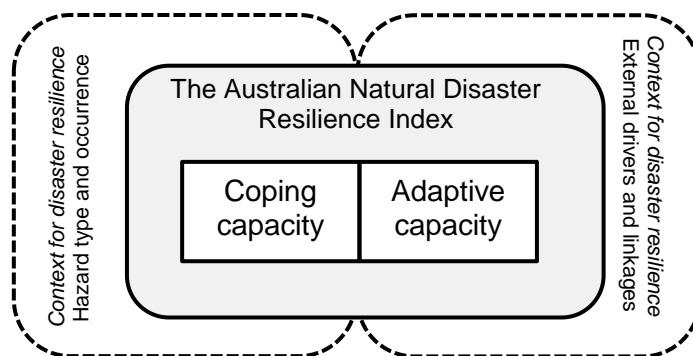


Figure 1.1: Conceptual elements of the Australian Natural Disaster Resilience Index. Coping and adaptive capacities form the basis for assessment of disaster resilience, where coping capacities are the means by which people or organisations use available resources, skills and opportunities to face adverse consequences that could lead to a disaster and adaptive capacities are the arrangements and processes that enable adjustment through learning, adaptation and transformation. Resilience assessment sits within a context of the occurrence of different natural hazard types and external drivers and linkages (dashed lines) but these factors are not considered as part of the index. Taken from Parsons et al. (2016).

1.1.2 Assessing disaster resilience using a composite index

Assessment refers to a qualitative or quantitative process of evaluating the status of some phenomenon of interest. Assessments can be conducted for different purposes including: 1) to gauge or audit the state of a system at one point in time or over time; 2) to assess whether regulated performance criteria have been exceeded; 3) to detect impacts; and, 4) to assess responses to mitigation or restoration (Downes et al. 2002). In this work, assessment means gauging or auditing the state of disaster resilience at one point in time. With further data at future points in time, the state of disaster resilience can be tracked over time.



The Australian Natural Disaster Resilience Index is a composite index designed for the assessment of disaster resilience. Composite indices are frequently used as an assessment tool to summarise and report complex relational measurements about a particular issue (OECD 2008). An index should capture change and respond directionally according to the behaviour of the system (Burton 2015), so that the index can be arrayed along a continuum of condition. Indices are calculated from a series of measurements, generally termed indicators. For example, a Consumer Price Index, a tool to assess cost pressures on households, is calculated from the prices of a number of consumer items.

There are three main characteristics that define an index. The first relates to the application of formative or reflective measurement models. Disaster resilience, as a conceptual characteristic of communities or societies, cannot be assessed directly, but can be assessed indirectly by its causes or by its effects. Thus, it is important to know whether the index values “cause” or “are caused by” the indicators.

Assessment based on causes makes use of the current understanding about which factors enhance or constrain disaster resilience. This understanding comes from the study of actual disasters through the prevention, preparation, response and recovery phases, and examples of transformation and adaptation. If a factor has been found to enhance the resilience of a particular community where a natural disaster occurred, then it can be assumed that this factor will also enhance the capacity for resilience of other communities, should they be exposed to a natural disaster in the future. Levels of such factors may be readily measurable and serve as indicators of the capacity for disaster resilience of communities, regardless of whether they have experienced natural disasters or not. Indicators for assessment based on causes will generally be measures of the socio-economic state of society and its governance and disaster management systems.

Assessments based on the effects of disaster resilience can only be made for communities where natural disasters have occurred. The speed and extent of recovery post-disaster is assumed to reflect the capacity for resilience. While the concept of capacity for resilience is not directly measurable, indicators of the speed and extent of recovery may be readily measurable. If a community makes a speedy, complete and adaptive recovery from a disaster, then it can be assumed that it has a high capacity for resilience. Indicators for assessment based on effects will generally relate to post-disaster changes in the state of society and its governance and disaster management systems.

If policy and planning initiatives to improve disaster resilience are to be undertaken anywhere in Australia, or for specific regions, a usable index of the capacity for disaster resilience has to have national coverage. It is of limited utility if estimates of the capacity for disaster resilience are only available for localities where natural disasters have already occurred. For this reason, an



index of the capacity for disaster resilience with national coverage has to be based on the known or presumed causal factors for disaster resilience. This approach to index construction is known formally as a formative measurement model.

If the capacity for disaster resilience was to be estimated from indicators of its effect, this is termed a reflective measurement model. There has been considerable debate over the last few decades about the merits and validity or otherwise of formative and reflective measurement models (for a detailed review see Bagozzi 2011). These issues have generally received little consideration in composite index construction in the natural hazards vulnerability and resilience index literature.

However, the distinction between formative and reflective measurement models is important in the inclusion or exclusion of indicators, interpretation of correlations among indicators, and consequent decisions about the statistical treatment of indicators in the composite index. To achieve national coverage, the Australian Natural Disaster Resilience Index is necessarily based on a formative measurement model, where the capacity for resilience in a community, which is not directly measurable itself, is assessable by reference to the values of a chosen set of indicators. However, in the exploratory analysis conducted prior to deciding upon an appropriate method of calculation of the index, the possibility for a reflective measurement model was given consideration.

The second characteristic that defines the nature of composite indices relates to the sources of the data upon which the index depends. These have implications for how the index is constructed and used. Bottom-up approaches are locally based and locally driven and are qualitative self-assessments of disaster resilience (Committee on Measures of Community Resilience 2015). Bottom-up approaches survey individuals or communities using a scorecard consisting of indicators of disaster resilience such as preparation, exposure to specific hazards, community resources and communication (e.g. Arbon 2014). In contrast, top-down approaches are often intended for use at broad scales by an oversight body (Committee on Measures of Community Resilience 2015) and use secondary spatial sources such as census data to derive quantitative indicators that describe the inherent characteristics of a community that contribute to disaster resilience (Cutter et al. 2010). The choice of top-down or bottom-up assessment is an important consideration because it determines the degree of community involvement in the assessment process, influences the cost and spatial extent of the assessment and bounds the ability to compare across units using standardised data (Parsons et al. 2016).

The Australian Natural Disaster Resilience Index takes a top-down assessment approach. The index uses indicators derived from secondary data. Assessment is at a national scale and provides a nationally-standardised spatial coverage of the entire country. The use of a top-down assessment in combination with



the coping and adaptive capacity framework of disaster resilience governs the interpretation of the state of disaster resilience in Australia. The index assesses the capacities for disaster resilience, not the actual realisation of disaster resilience following any one event.

The third characteristic that defines the nature of composite indices is the strategy that is used to combine indicators to produce an index. The aggregation strategy can employ a simple single-level aggregation where a set of indicators are combined to produce the index. This is termed a deductive structural design by Tate (2012). Alternatively, the aggregation strategy might involve several levels, where separate sets of indicators are aggregated to produce sub-indices and these sub-indices are aggregated in turn to produce the final index. A multi-level strategy, where the sets of indicators are chosen by a priori theoretical reasoning corresponds to Tate's (2012) hierarchical structural design. If the sets of indicators are instead identified using Principal Components Analysis, so that there is a sub-index for each component, this corresponds to Tate's (2012) inductive structural design.

The Australian Natural Disaster Resilience Index uses a multi-level aggregation strategy. The capacities for disaster resilience are captured using eight themes that capture various dimensions of disaster resilience: social character; economic capital; emergency services; planning and the built environment; community capital; information access; social and community engagement; and, governance and leadership. Sub-indices are calculated for each of these themes, and the sub-indices are combined into coping capacity and adaptive capacity sub-indices, which are combined in turn into the Australian Natural Disaster Resilience Index. The eight themes are explained further in Section 1.2.

In summary, the Australian Natural Disaster Resilience Index is a national scale composite index that uses a formative measurement model with a top down approach to data acquisition and a multi-level or hierarchical aggregation strategy.

1.2 STRUCTURE OF THE AUSTRALIAN NATURAL DISASTER RESILIENCE INDEX

The structural design of an index can be deductive, hierarchical or inductive. The choice of structure depends largely on the formulation of the conceptual framework but the type of structure used can affect the robustness of individual indicators and the overall index (Tate 2012). A hierarchical structure was used in the Australian Natural Disaster Resilience Index (Figure 1.2). A hierarchical structure allows levels with similar concepts, processes and spatial/temporal organisation to emerge. Lower levels can be summarised into higher levels, and higher levels constrain the elements of levels sitting within it.

The top level is the overall assessment of disaster resilience (Figure 1.2). The second level is made up of adaptive capacity and coping capacity. The third level is made up of themes that convey the latent dimensions of disaster



resilience within adaptive capacity and coping capacity. The fourth level is comprised of indicator sets that measure the status of a theme. An index is computed for the first, second and third levels.

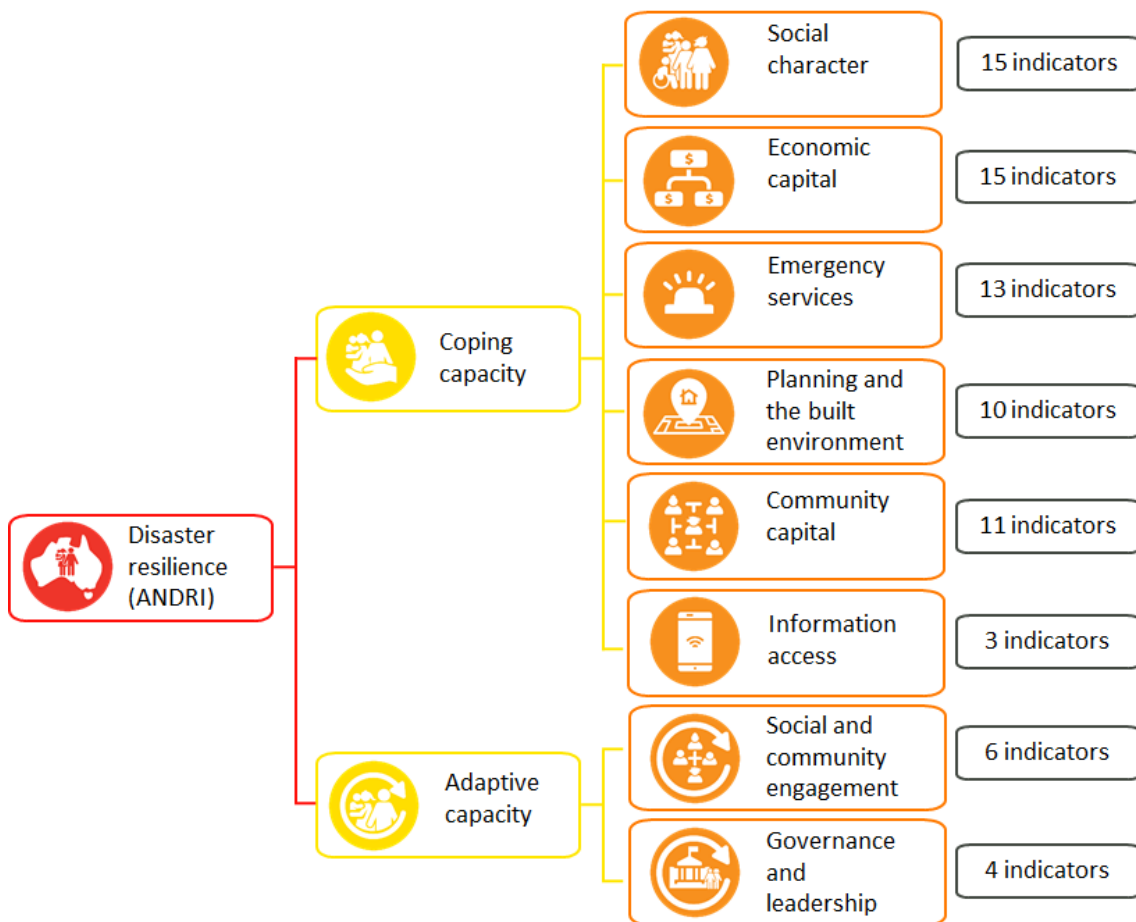


Figure 1.2: The hierarchical structure of the Australian Natural Disaster Resilience Index.

1.2.1 Indicator themes

Themes are the latent dimensions – related to coping capacity or adaptive capacity – that contribute to community resilience to natural hazards. Themes have a basis in the literature: some with empirical evidence of the relationship between the theme and resilience, and others that conceptualise this relationship but with developing evidence. These relationships are outlined in detail in Chapter 2.

Coping capacity is comprised of six themes that encapsulate the factors influencing the resources and abilities that communities have to prepare for, absorb and recover from natural hazard events (Table 1.1). Adaptive capacity is comprised of two themes that encapsulate the factors that enable institutional and social learning, flexibility and problem solving (Table 1.1). Indicators provide the data for a theme – together the indicators measure the



status of the theme. The identification, selection and literature-based justification for the indicators used in the Australian Natural Disaster Resilience Index is set out in Chapter 2.

Table 1.1: Explanation of coping and adaptive capacity themes within the Australian Natural Disaster Resilience Index. The relationship between the theme and natural hazard resilience is described in detail in Chapter 2.

Theme	Description
Coping capacity	
Social character	The social characteristics of the community. Represents the social and demographic factors that influence the ability to prepare for and recover from a natural hazard event.
Economic capital	The economic characteristics of the community. Represents the economic factors that influence the ability to prepare for and recover from a natural hazard event.
Emergency services	The presence, capability and resourcing of emergency services. Represents the potential to respond to a natural hazard event.
Planning and the built environment	The presence of legislation, plans, structures or codes to protect communities and their built environment. Represents preparation for natural hazard events using strategies of mitigation, planning or risk management.
Community capital	The cohesion and connectedness of the community. Represents the features of a community that facilitate coordination and cooperation for mutual benefit.
Information access	The potential for communities to engage with natural hazard information. Represents the relationship between communities and natural hazard information and the uptake of knowledge required for preparation and self-reliance.
Adaptive capacity	
Social and community engagement	The capacity within communities to adaptively learn and transform in the face of complex change. Represents the resources and support available within communities for engagement and renewal for mutual benefit.
Governance and leadership	The capacity within organisations to adaptively learn, review and adjust policies and procedures, or to transform organisational practices. Represents the flexibility within organizations to learn from experience and adjust accordingly.



1.3 SPATIAL RESOLUTION OF THE AUSTRALIAN NATURAL DISASTER RESILIENCE INDEX

The grain of the Australian Natural Disaster Resilience Index is Statistical Area Level 2 (SA2), defined in the 2011 Australian Statistical Geography Standard (ABS 2011). SA2s are delineated by the Australian Bureau of Statistics using criteria of population, functional areas, growth, gazetted suburbs or localities, local government area boundaries and rural or city locations (ABS 2011). SA2s generally have a population range of 3,000 to 25,000 persons, with an average population of about 10,000 persons (ABS 2011).

Overall, there are 2,214 SA2s across Australia (Figure 1.3). The Australian Natural Disaster Resilience Index was computed for 2084 of these SA2s: 130 SA2s (6%) were excluded because they were areas of no or low population (e.g. national parks, ports, airports, industrial estates, reservoirs). The dimensions of disaster resilience are unlikely to apply to these 130 SA2s. Jervis Bay, Christmas Island, the Cocos-Keeling Islands, Lord Howe Island and French Island were also excluded from the index because the availability of indicator data for these areas was inconsistent.

The SA2s included in the Australian Natural Disaster Resilience Index are listed in Table 1.2.

The SA2s excluded from the Australian Natural Disaster Resilience Index are listed in Table 1.3

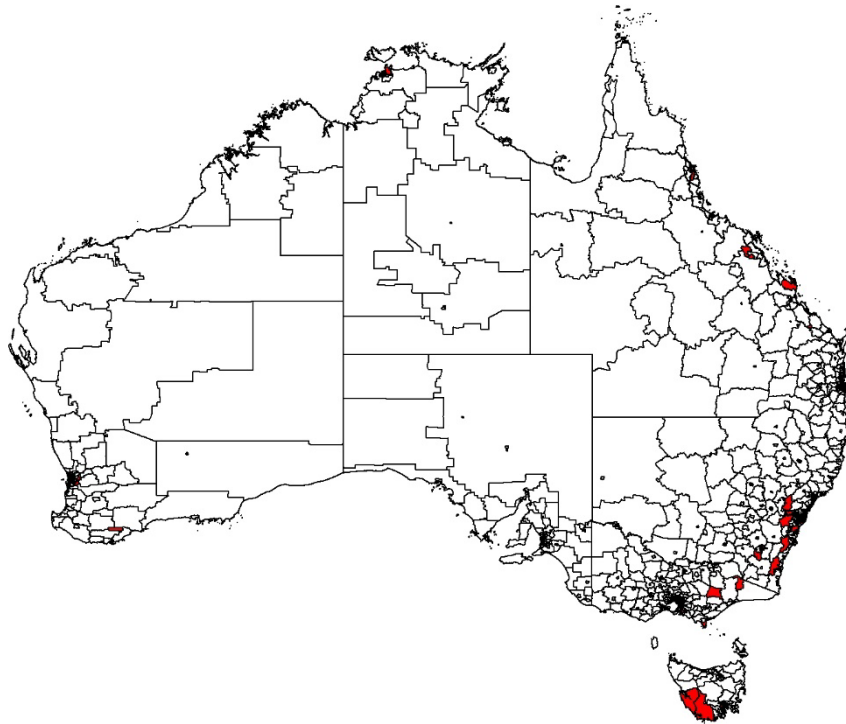


Figure 1.3: Map of SA2s in the Australian Statistical Geography Standard, 2011. SA2s excluded from the index are highlighted in red and further detailed in Table 1.2.



It is also important to define what is meant by the term community. A community can be seen as sharing a common place or location (Jenkins 2013). A community can also be seen as sharing a common interest, or a common attachment (Jenkins 2013). In this project we take the first view of community – that is, a community shares a common location. This view is further moderated by the finest resolution at which we are collecting data –the SA2 level of the Australian Bureau of Statistics census data.

Table 1.2: List of SA2s included in the Australian Natural Disaster Resilience Index. SA2 code is the 9-digit hierarchical code and SA2 name is the name assigned by the Australian Bureau of Statistics (ABS 2011).

SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)
101011001	Goulburn	101041026	Moruya - Tuross Head	102021047	Chittaway Bay - Tumbi Umbi
101011002	Goulburn Region	101041027	Narooma - Bermagui	102021048	Gorokan - Kanwal - Charmhaven
101011003	Yass	102011028	Avoca Beach - Copacabana	102021049	Jilliby - Yarramalong
101011004	Yass Region	102011029	Box Head - MacMasters Beach	102021050	Lake Munmorah - Mannering Park
101011005	Young	102011030	Calga - Kulnura	102021051	Ourimbah - Fountaindale
101011006	Young Region	102011031	Erina - Green Point	102021052	Summerland Point - Gwandalan
101021007	Braidwood	102011032	Gosford - Springfield	102021053	The Entrance
101021008	Karabar	102011033	Kariong	102021054	Toukley - Norah Head
101021009	Queanbeyan	102011034	Kincumber - Picketts Valley	102021055	Tuggerah - Kangy Angy
101021010	Queanbeyan - East	102011035	Narara	102021056	Warnervale - Wadalba
101021011	Queanbeyan Region	102011036	Niagara Park - Lisarow	102021057	Wyong
101021012	Queanbeyan West - Jerrabomberra	102011037	Point Clare - Koolewong	103011058	Bathurst
101031013	Bombala	102011038	Saratoga - Davistown	103011059	Bathurst - East
101031014	Cooma	102011039	Terrigal - North Avoca	103011060	Bathurst Region
101031015	Cooma Region	102011040	Umina - Booker Bay - Patonga	103011061	Oberon
101031016	Jindabyne - Berridale	102011041	Wamberal - Forresters Beach	103021062	Condobolin
101041017	Batemans Bay	102011042	Woy Woy - Blackwall	103021063	Cowra
101041018	Batemans Bay - South	102011043	Wyoming	103021064	Cowra Region
101041019	Bega - Tathra	102021044	Bateau Bay - Killarney Vale	103021065	Forbes
101041020	Bega-Eden Hinterland	102021045	Blue Haven - San Remo	103021066	Grenfell
101041021	Broulee - Tomakin	102021046	Budgewoi - Buff Point - Halekulani	103021067	Parkes (NSW)
101041023	Eden			103021068	Parkes Region
101041024	Eurobodalla Hinterland			103021069	West Wyalong
101041025	Merimbula - Tura Beach				



SA2 Code (2011)	SA2 Name (2011)
103031070	Lithgow
103031071	Lithgow Region
103031072	Mudgee
103031073	Mudgee Region - East
103031074	Mudgee Region - West
103041076	Blayney
103041077	Orange
103041078	Orange - North
103041079	Orange Region
104011080	Grafton
104011081	Grafton Region
104011082	Maclean - Yamba - Iluka
104021083	Bellingen
104021084	Coffs Harbour - North
104021085	Coffs Harbour - South
104021086	Coramba - Nana Glen - Bucca
104021087	Dorrigo
104021088	Korora - Emerald Beach
104021089	Sawtell - Boambee
104021090	Urunga
104021091	Woolgoolga - Arrawarra
105011092	Bourke - Brewarrina
105011093	Cobar
105011094	Coonamble
105011095	Nyngan - Warren

SA2 Code (2011)	SA2 Name (2011)
105011096	Walgett - Lightning Ridge
105021097	Broken Hill
105021098	Far West
105031099	Coonabarabran
105031100	Dubbo - East
105031101	Dubbo - South
105031102	Dubbo - West
105031103	Dubbo Region
105031104	Gilgandra
105031105	Narromine
105031106	Wellington
106011107	Branxton - Greta - Pokolbin
106011108	Cessnock
106011109	Cessnock Region
106011110	Dungog
106011111	Kurri Kurri - Abermain
106011112	Singleton
106011113	Singleton Region
106021114	Maitland
106021115	Maitland - East
106021116	Maitland - North
106021117	Maitland - West
106021118	Thornton - Millers Forest
106031119	Anna Bay
106031120	Lemon Tree Passage - Tanilba Bay
106031121	Nelson Bay Peninsula
106031122	Raymond Terrace

SA2 Code (2011)	SA2 Name (2011)
106031123	Seaham - Woodville
106031124	Tea Gardens - Hawks Nest
106031125	Williamstown - Medowie - Karuah
106041126	Muswellbrook
106041127	Muswellbrook Region
106041128	Scone
106041129	Scone Region
107011130	Berkeley - Warrawong - Windang
107011131	Dapto - Avondale
107011132	Horsley - Kembla Grange
107011134	Unanderra - Mount Kembla
107031136	Albion Park - Macquarie Pass
107031137	Albion Park Rail
107031138	Kiama
107031139	Kiama Downs - Minnamurra
107031140	Kiama Hinterland - Gerringong
107031141	Shellharbour - Flinders
107031142	Shellharbour - Oak Flats
107031143	Warilla
107041144	Balgownie - Fairy Meadow
107041145	Corrimal - Tarrawanna - Bellambi
107041146	Figtree - Keiraville
107041147	Helensburgh



SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)
107041148	Thirroul - Austinmer - Coalcliff	109011174	Albury - South	110041201	Quirindi
107041149	Wollongong	109011175	Albury Region	110041202	Tamworth - East
107041150	Woonona - Bulli - Russell Vale	109011176	Lavington	110041203	Tamworth - North
108011151	Bulahdelah - Stroud	109021177	Hay	110041204	Tamworth - West
108011152	Forster	109021178	Wentworth - Buronga	110041205	Tamworth Region
108011153	Forster-Tuncurry Region	109021179	Wentworth-Balranald Region	111011206	Belmont - Bennetts Green
108011154	Tuncurry	109031180	Corowa	111011207	Belmont South - Blacksmiths
108021155	Kempsey	109031181	Corowa Region	111011208	Charlestown - Dudley
108021156	Kempsey Region	109031182	Deniliquin	111011209	Glendale - Cardiff - Hillsborough
108021157	Macksville - Scotts Head	109031183	Deniliquin Region	111011210	Mount Hutton - Windale
108021158	Nambucca Heads	109031184	Moama	111011211	Redhead
108021159	Nambucca Heads Region	109031185	Tocumwal - Finley - Jerilderie	111011212	Swansea - Caves Beach
108021160	South West Rocks	110011186	Armidale	111011213	Valentine - Eleebana
108041162	Laurieton - Bonny Hills	110011187	Armidale Region - North	111011214	Warners Bay - Boolaroo
108041163	Port Macquarie - East	110011188	Armidale Region - South	111021215	Bolton Point - Teralba
108041164	Port Macquarie - West	110011189	Walcha	111021216	Bonnells Bay - Silverwater
108041165	Port Macquarie Region	110021190	Glen Innes	111021217	Edgeworth - Cameron Park
108041166	Wauchope	110021191	Inverell	111021218	Morriset - Cooranbong
108051167	Gloucester	110021192	Inverell Region - East	111021219	Toronto - Awaba
108051168	Old Bar - Manning Point - Red Head	110021193	Inverell Region - West	111021220	Wangji Wangji - Rathmines
108051169	Taree	110021194	Tenterfield	111021221	West Wallsend - Barnsley - Killingworth
108051170	Taree Region	110031195	Moree	111031222	Adamstown - Kotara
108051171	Wingham	110031196	Moree Region	111031223	Beresfield - Hexham
109011172	Albury - East	110031197	Narrabri		
109011173	Albury - North	110031198	Narrabri Region		
		110041199	Gunnedah		
		110041200	Gunnedah Region		



SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)
111031224	Hamilton - Broadmeadow	112031250	Kingscliff - Fingal Head	114011278	Nowra
111031225	Lambton - New Lambton	112031251	Murwillumbah	114011279	St Georges Basin - Erawal Bay
111031226	Maryland - Fletcher - Minmi	112031252	Murwillumbah Region	114011280	Sussex Inlet - Berrara
111031227	Mayfield - Warabrook	112031253	Pottsville	114011281	Tomerong - Wandandian - Woollamia
111031228	Merewether - The Junction	112031254	Tweed Heads	114011282	Ulladulla
111031229	Newcastle - Cooks Hill	112031255	Tweed Heads - South	114011283	Ulladulla Region
111031231	Shortland - Jesmond	113011256	Griffith (NSW)	114021284	Bowral
111031232	Stockton - Fullerton Cove	113011257	Griffith Region	114021285	Hill Top - Colo Vale
111031233	Wallsend - Elmore Vale	113011258	Leeton	114021286	Mittagong
111031234	Waratah - North Lambton	113011259	Narrandera	114021287	Moss Vale - Berrima
111031235	Wickham - Carrington - Tighes Hill	113021260	Tumbarumba	114021288	Robertson - Fitzroy Falls
112011236	Ballina	113021261	Tumut	114021289	Southern Highlands
112011237	Ballina Region	113021262	Tumut Region	115011290	Baulkham Hills (East)
112011238	Bangalow	113031263	Cootamundra	115011291	Baulkham Hills (West) - Bella Vista
112011239	Brunswick Heads - Ocean Shores	113031264	Gundagai	115011292	Castle Hill
112011240	Byron Bay	113031265	Junee	115011293	Cherrybrook
112011241	Evans Head	113031266	Temora	115011294	Glenhaven
112011242	Lennox Head - Skennars Head	113031267	Wagga Wagga - East	115011295	Kellyville
112011243	Mullumbimby	113031268	Wagga Wagga - North	115011296	West Pennant Hills
112021244	Casino	113031269	Wagga Wagga - South	115021297	Dural - Kenthurst - Wisemans Ferry
112021245	Casino Region	113031270	Wagga Wagga - West	115021298	Galston - Laughtondale
112021246	Goonellabah	113031271	Wagga Wagga Region	115031299	Bilpin - Colo - St Albans
112021247	Kyogle	114011272	Berry - Kangaroo Valley	115031300	Kurrajong Heights - Ebenezer
112021248	Lismore	114011273	Callala Bay - Currarong	115041301	Pitt Town - McGraths Hill
112021249	Lismore Region	114011274	Culburra Beach		
		114011276	Huskisson - Vincentia		
		114011277	North Nowra - Bomaderry		



SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)
115041302	Rouse Hill - Beaumont Hills	117021328	Sydenham - Tempe - St Peters	118021352	Randwick
116011303	Blacktown (East) - Kings Park	117031329	Darlinghurst	119011353	Bankstown
116011304	Blacktown (North) - Marayong	117031330	Erskineville - Alexandria	119011354	Bass Hill - Georges Hall
116011305	Blacktown (South)	117031331	Glebe - Forest Lodge	119011356	Condell Park
116011306	Doonside - Woodcroft	117031332	Newtown - Camperdown - Darlington	119011357	Greenacre - Mount Lewis
116011307	Lalor Park - Kings Langley	117031333	Potts Point - Woolloomooloo	119011358	Padstow
116011308	Seven Hills - Toongabbie	117031334	Pymont - Ultimo	119011359	Panania - Milperra - Picnic Point
116021309	Glenwood	117031335	Redfern - Chippendale	119011360	Revesby
116021310	Parklea - Kellyville Ridge	117031336	Surry Hills	119011361	Yagoona - Birrong
116021311	Quakers Hill - Acacia Gardens	117031337	Sydney - Haymarket - The Rocks	119021362	Belmore - Belfield
116021312	Riverstone - Marsden Park	117031338	Waterloo - Beaconsfield	119021363	Canterbury (South) - Campsie
116031313	Bidwill - Hebersham - Emerton	118011339	Bondi - Tamarama - Bronte	119021364	Kingsgrove (North) - Earlwood
116031314	Glendenning Dean Park	118011340	Bondi Beach - North Bondi	119021365	Lakemba - Wiley Park
116031315	Hassall Grove - Plumpton	118011341	Bondi Junction - Waverly	119021366	Punchbowl
116031316	Lethbridge Park - Tregear	118011343	Double Bay - Bellevue Hill	119021367	Roselands
116031317	Mount Druitt - Whalan	118011344	Dover Heights	119031368	Hurstville
116031319	Rooty Hill - Minchinbury	118011345	Paddington - Moore Park	119031369	Mortdale - Penshurst
117011321	Botany	118011346	Rose Bay - Vaucluse - Watsons Bay	119031370	Narwee - Beverly Hills
117011322	Mascot - Eastlakes	118011347	Woollahra	119031371	Oatley - Hurstville Grove
117011323	Pagewood - Hillsdale - Daceyville	118021348	Coogee - Clovelly	119031372	Peakhurst - Lugarno
117021326	Marrickville	118021349	Kensington - Kingsford	119031373	Riverwood
117021327	Petersham - Stanmore	118021350	Malabar - La Perouse - Chifley	119031374	South Hurstville - Blakehurst
		118021351	Maroubra	119041375	Arncliffe - Bardwell Valley
				119041376	Bexley



SA2 Code (2011)	SA2 Name (2011)
119041377	Kingsgrove (South) - Bardwell Park
119041378	Kogarah
119041379	Kogarah Bay - Carlton - Allawah
119041380	Monterey - Brighton-le-Sands - Kyeemagh
119041381	Rockdale - Banksia
119041382	Sans Souci - Ramsgate
120011383	Concord - Mortlake - Cabarita
120011384	Concord West - North Strathfield
120011385	Drummoyne - Rodd Point
120011386	Five Dock - Abbotsford
120021387	Balmain
120021388	Leichhardt - Annandale
120021389	Lilyfield - Rozelle
120031390	Ashfield
120031391	Burwood - Croydon
120031392	Canterbury (North) - Ashbury
120031393	Croydon Park - Enfield
120031394	Dulwich Hill - Lewisham
120031395	Haberfield - Summer Hill
120031396	Homebush
120031397	Strathfield
121011398	Chatswood (East) - Artarmon

SA2 Code (2011)	SA2 Name (2011)
121011399	Chatswood (West) - Lane Cove North
121011400	Lane Cove - Greenwich
121011401	St Leonards - Naremburn
121011402	Willoughby - Castle Cove - Northbridge
121021403	Asquith - Mount Colah
121021404	Berowra - Brooklyn - Cowan
121021405	Hornsby - Waitara
121021406	Normanhurst - Thornleigh - Westleigh
121031407	Gordon - Killara
121031408	Lindfield - Roseville
121031409	Pymble
121031410	St Ives
121031411	Turramurra
121031412	Wahroonga - Warrawee
121041413	Cremorne - Cammeray
121041414	Crows Nest - Waverton
121041415	Mosman
121041416	Neutral Bay - Kirribilli
121041417	North Sydney - Lavender Bay
122011418	Balgowlah - Clontarf - Seaforth
122011419	Manly - Fairlight
122021420	Avalon - Palm Beach
122021421	Bayview - Elanora Heights

SA2 Code (2011)	SA2 Name (2011)
122021422	Newport - Bilgola
122021423	Warriewood - Mona Vale
122031424	Beacon Hill - Narraweena
122031425	Cromer
122031426	Dee Why - North Curl Curl
122031427	Forestville - Killarney Heights
122031428	Frenchs Forest - Belrose
122031429	Freshwater - Brookvale
122031430	Manly Vale - Allambie Heights
122031431	Narrabeen - Collaroy
122031432	Terrey Hills - Duffys Forest
123011433	Camden - Ellis Lane
123011434	Elderslie - Harrington Park
123011435	Mount Annan - Currans Hill
123021436	Bradbury - Wedderburn
123021437	Campbelltown - Woodbine
123021438	Claymore - Eagle Vale - Raby
123021440	Ingleburn - Denham Court
123021441	Leumeah - Minto Heights
123021442	Macquarie Fields - Glenfield
123021443	Minto - St Andrews
123021444	Rosemeadow - Glen Alpine
123031445	Bargo



SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)
123031446	Douglas Park - Appin	124051470	St Clair	126021498	Gladesville - Huntleys Point
123031447	Picton - Tahmoor - Buxton	124051471	St Marys - Colyton	126021499	Hunters Hill - Woolwich
123031448	The Oaks - Oakdale	125011472	Auburn	126021500	Macquarie Park - Marsfield
124011449	Blackheath - Megalong Valley	125011473	Homebush Bay - Silverwater	126021501	North Ryde - East Ryde
124011450	Blaxland - Warrimoo - Lapstone	125011474	Lidcombe - Regents Park	126021502	Ryde - Putney
124011452	Katoomba - Leura	125021476	Carlingford	126021503	West Ryde - Meadowbank
124011453	Lawson - Hazelbrook - Linden	125021477	Ermington - Rydalmere	127011504	Ashcroft - Busby - Miller
124011454	Springwood - Winmalee	125021478	Oatlands - Dundas Valley	127011505	Badgerys Creek - Greendale
124011455	Wentworth Falls	125031479	Chester Hill - Sefton	127011506	Cobbitty - Leppington
124031457	Cambridge Park	125031480	Fairfield - East	127011507	Green Valley - Cecil Hills
124031458	Castlereagh - Cranebrook	125031481	Granville - Clyde	127011508	Hoxton Park - Horningsea Park
124031459	Emu Plains - Leonay	125031482	Greystanes - Pemulwuy	127021509	Bonnyrigg Heights - Bonnyrigg
124031460	Glenmore Park - Regentville	125031483	Guildford - South Granville	127021510	Bossley Park - Abbotsbury
124031461	Jamisontown - South Penrith	125031484	Guildford West - Merrylands West	127021511	Cabramatta - Lansvale
124031462	Kingswood - Werrington	125031485	Merrylands - Holroyd	127021512	Cabramatta West - Mount Pritchard
124031463	Mulgoa - Luddenham - Orchard Hills	125041488	Girraween - Westmead	127021513	Canley Vale - Canley Heights
124031464	Penrith	125041489	North Parramatta	127021514	Edensor Park
124031465	Warragamba - Silverdale	125041490	North Rocks	127021515	Fairfield
124041466	Richmond - Clarendon	125041491	Northmead	127021516	Fairfield - West
124041467	Windsor - Bligh Park	125041492	Parramatta - Rosehill	127021517	Greenfield Park - Prairiewood
124041468	Yarramundi - Londonderry	125041493	Toongabbie - Constitution Hill	127021518	Horsley Park - Kemps Creek
124051469	Erskine Park	125041494	Winston Hills	127021519	Smithfield - Wetherill Park
		126011495	Epping - North Epping	127021520	St Johns Park - Wakeley
		126011496	Pennant Hills - Cheltenham		
		126021497	Eastwood - Denistone		



SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)
127031522	Casula	201021010	Creswick - Clunes	203011036	Winchelsea
127031523	Chipping Norton - Moorebank	201021011	Daylesford	203021037	Belmont
127031524	Holsworthy - Wattle Grove	201021012	Gordon (Vic.)	203021038	Corio - Norlane
127031525	Liverpool - Warwick Farm	201031013	Avoca	203021039	Geelong
127031526	Prestons - Lurnea	201031014	Beaufort	203021040	Geelong West - Hamlyn Heights
128011527	Caringbah - Lilli Pilli	201031015	Golden Plains - North	203021041	Grovedale
128011528	Cronulla - Kurnell - Bundeena	201031016	Maryborough (Vic.)	203021042	Highton
128011529	Gymea - Grays Point	201031017	Maryborough Region	203021043	Lara
128011530	Miranda - Yowie Bay	202011018	Bendigo	203021044	Leopold
128011531	Sylvania - Taren Point	202011019	California Gully - Eaglehawk	203021045	Newcomb - Moolap
128021532	Engadine - Loftus	202011020	East Bendigo - Kennington	203021046	Newtown (Vic.)
128021533	Heathcote - Waterfall	202011021	Flora Hill - Spring Gully	203021047	North Geelong - Bell Park
128021534	Illawong - Alfords Point	202011022	Kangaroo Flat - Golden Square	203031048	Clifton Springs
128021535	Menai - Lucas Heights - Woronora	202011023	Maiden Gully	203031049	Lorne - Anglesea
128021536	Oyster Bay - Como - Jannali	202011024	Strathfieldsaye	203031050	Ocean Grove - Barwon Heads
128021538	Sutherland - Kirrawee	202011025	White Hills - Ascot	203031051	Portarlington
201011001	Alfredton	202021026	Bendigo Region - South	203031052	Queenscliff
201011002	Ballarat	202021027	Castlemaine	203031053	Torquay
201011003	Ballarat - North	202021028	Castlemaine Region	204011054	Alexandra
201011004	Ballarat - South	202021029	Heathcote	204011055	Euroa
201011005	Buninyong	202021030	Kyneton	204011056	Kilmore - Broadford
201011006	Delacombe	202021031	Woodend	204011057	Mansfield (Vic.)
201011007	Smythes Creek	202031032	Bendigo Region - North	204011058	Nagambie
201011008	Wendouree - Miners Rest	202031033	Loddon	204011059	Seymour
201021009	Bacchus Marsh Region	203011034	Bannockburn	204011060	Seymour Region
		203011035	Golden Plains - South	204011061	Upper Yarra Valley
				204011062	Yea
				204021063	Benalla
				204021064	Benalla Region



SA2 Code (2011)	SA2 Name (2011)
204021065	Rutherglen
204021066	Wangaratta
204021067	Wangaratta Region
204031068	Beechworth
204031069	Bright - Mount Beauty
204031070	Chiltern - Indigo Valley
204031071	Myrtleford
204031072	Towong
204031073	West Wodonga
204031074	Wodonga
204031075	Yackandandah
205011076	Drouin
205011077	Mount Baw Baw Region
205011078	Trafalgar (Vic.)
205011079	Warragul
205021081	Bairnsdale
205021082	Bruthen - Omeo
205021084	Lakes Entrance
205021085	Orbost
205021086	Paynesville
205031087	Foster
205031089	Korumburra
205031090	Leongatha
205031091	Phillip Island
205031093	Wonthaggi - Inverloch
205041094	Churchill
205041095	Moe - Newborough
205041096	Morwell
205041097	Traralgon

SA2 Code (2011)	SA2 Name (2011)
205041098	Yallourn North - Glengary
205051100	Longford - Loch Sport
205051101	Maffra
205051102	Rosedale
205051103	Sale
205051104	Yarram
206011105	Brunswick
206011106	Brunswick East
206011107	Brunswick West
206011108	Coburg
206011109	Pascoe Vale South
206021110	Alphington - Fairfield
206021111	Northcote
206021112	Thornbury
206031113	Ascot Vale
206031114	Essendon - Aberfeldie
206031115	Flemington
206031116	Moonee Ponds
206041117	Carlton
206041118	Docklands
206041119	East Melbourne
206041121	Kensington
206041122	Melbourne
206041123	North Melbourne
206041124	Parkville
206041125	South Yarra - West
206041126	Southbank
206051128	Albert Park
206051129	Elwood

SA2 Code (2011)	SA2 Name (2011)
206051130	Port Melbourne
206051132	South Melbourne
206051133	St Kilda
206051134	St Kilda East
206061135	Armadale
206061136	Prahran - Windsor
206061137	South Yarra - East
206061138	Toorak
206071139	Abbotsford
206071140	Carlton North - Princes Hill
206071141	Collingwood
206071142	Fitzroy
206071143	Fitzroy North
206071144	Richmond (Vic.)
206071145	Yarra - North
207011146	Ashburton (Vic.)
207011147	Balwyn
207011148	Balwyn North
207011149	Camberwell
207011150	Glen Iris - East
207011151	Hawthorn
207011152	Hawthorn East
207011153	Kew
207011154	Kew East
207011155	Surrey Hills (West) - Canterbury
207021156	Bulleen
207021157	Doncaster
207021158	Doncaster East
207021159	Templestowe



SA2 Code (2011)	SA2 Name (2011)
207021160	Templestowe Lower
207031161	Blackburn
207031162	Blackburn South
207031163	Box Hill
207031164	Box Hill North
207031165	Burwood
207031166	Burwood East
207031167	Surrey Hills (East) - Mont Albert
208011168	Beaumaris
208011169	Brighton (Vic.)
208011170	Brighton East
208011171	Cheltenham - Highett (West)
208011172	Hampton
208011173	Sandringham - Black Rock
208021174	Bentleigh - McKinnon
208021175	Bentleigh East
208021176	Carnegie
208021177	Caulfield - North
208021178	Caulfield - South
208021179	Elsternwick
208021180	Hughesdale
208021181	Murrumbeena
208021182	Ormond - Glen Huntly
208031183	Aspendale Gardens - Waterways
208031185	Carrum - Patterson Lakes
208031186	Chelsea - Bonbeach
208031187	Chelsea Heights

SA2 Code (2011)	SA2 Name (2011)
208031188	Cheltenham - Highett (East)
208031189	Edithvale - Aspendale
208031190	Mentone
208031191	Moorabbin - Heatherton
208031193	Mordialloc - Parkdale
208041194	Malvern - Glen Iris
208041195	Malvern East
209011196	Bundoora - East
209011197	Greensborough
209011198	Heidelberg - Rosanna
209011199	Heidelberg West
209011200	Ivanhoe
209011201	Ivanhoe East - Eaglemont
209011202	Montmorency - Briar Hill
209011203	Viewbank - Yallambie
209011204	Watsonia
209021205	Kingsbury
209021206	Preston
209021207	Reservoir - East
209021208	Reservoir - West
209031209	Eltham
209031210	Hurstbridge
209031211	Kinglake
209031212	Panton Hill - St Andrews
209031213	Plenty - Yarrambat
209031214	Research - North Warrandyte

SA2 Code (2011)	SA2 Name (2011)
209031215	Wattle Glen - Diamond Creek
209041216	Bundoora - North
209041217	Bundoora - West
209041218	Epping
209041219	Lalor
209041220	Mill Park - North
209041221	Mill Park - South
209041222	South Morang
209041223	Thomastown
209041224	Wallan
209041225	Whittlesea
210011226	Airport West
210011228	Keilor
210011229	Keilor East
210011230	Niddrie - Essendon West
210011231	Strathmore
210021232	Gisborne
210021233	Macedon
210021234	Riddells Creek
210021235	Romsey
210031236	Coburg North
210031237	Fawkner
210031238	Glenroy - Hadfield
210031239	Pascoe Vale
210041240	Sunbury
210041241	Sunbury - South
210051242	Broadmeadows
210051243	Campbellfield - Coolaroo
210051244	Craigieburn - Mickleham



SA2 Code (2011)	SA2 Name (2011)
210051245	Gladstone Park - Westmeadows
210051246	Greenvale - Bulla
210051247	Meadow Heights
210051249	Roxburgh Park - Somerton
210051250	Tullamarine
211011251	Bayswater
211011252	Boronia - The Basin
211011253	Ferntree Gully
211011254	Knoxfield - Scoresby
211011255	Lysterfield
211011256	Rowville - Central
211011257	Rowville - North
211011258	Rowville - South
211011259	Wantirna
211011260	Wantirna South
211021261	Donvale - Park Orchards
211021262	Warrandyte - Wonga Park
211031263	Bayswater North
211031264	Croydon
211031265	Croydon Hills - Warranwood
211031266	Ringwood
211031267	Ringwood East
211031268	Ringwood North
211041269	Forest Hill
211041270	Mitcham (Vic.)
211041271	Nunawading
211041272	Vermont

SA2 Code (2011)	SA2 Name (2011)
211041273	Vermont South
211051274	Belgrave - Selby
211051275	Chirnside Park
211051276	Healesville - Yarra Glen
211051277	Kilsyth
211051278	Lilydale - Coldstream
211051279	Monbulk - Silvan
211051280	Montrose
211051281	Mooroolbark
211051282	Mount Dandenong - Olinda
211051283	Mount Evelyn
211051284	Upwey - Tecoma
211051285	Wandin - Seville
211051286	Yarra Valley
212011287	Beaconsfield - Officer
212011288	Bunyip - Garfield
212011289	Emerald - Cockatoo
212011290	Koo Wee Rup
212011291	Pakenham - North
212011292	Pakenham - South
212021293	Berwick - North
212021294	Berwick - South
212021295	Doveton
212021296	Endeavour Hills
212021297	Hallam
212021298	Narre Warren
212021299	Narre Warren North

SA2 Code (2011)	SA2 Name (2011)
212031300	Cranbourne
212031301	Cranbourne East
212031302	Cranbourne North
212031303	Cranbourne South
212031304	Cranbourne West
212031305	Hampton Park - Lynbrook
212031306	Lynbrook - Lyndhurst
212031307	Narre Warren South
212031308	Pearcedale - Tooradin
212041309	Clarinda - Oakleigh South
212041310	Clayton South
212041311	Dandenong
212041312	Dandenong North
212041313	Dingley Village
212041314	Keysborough
212041315	Noble Park
212041316	Noble Park North
212041317	Springvale
212041318	Springvale South
212051319	Ashwood - Chadstone
212051320	Clayton
212051321	Glen Waverley - East
212051322	Glen Waverley - West
212051323	Mount Waverley - North
212051324	Mount Waverley - South



SA2 Code (2011)	SA2 Name (2011)
212051325	Mulgrave
212051326	Oakleigh - Huntingdale
212051327	Whealers Hill
213011328	Ardeer - Albion
213011329	Cairnlea
213011330	Deer Park - Derrimut
213011331	Delahey
213011332	Keilor Downs
213011333	Kings Park (Vic.)
213011334	St Albans - North
213011335	St Albans - South
213011336	Sunshine
213011337	Sunshine North
213011338	Sunshine West
213011339	Sydenham
213011340	Taylors Lakes
213021341	Altona
213021342	Altona Meadows
213021343	Altona North
213021344	Newport
213021345	Seabrook
213021346	Williamstown
213031347	Braybrook
213031348	Footscray
213031349	Maribyrnong
213031350	Seddon - Kingsville
213031351	West Footscray - Tottenham
213031352	Yarraville
213041353	Bacchus Marsh
213041354	Caroline Springs

SA2 Code (2011)	SA2 Name (2011)
213041355	Hillside
213041356	Melton
213041357	Melton South
213041358	Melton West
213041359	Rockbank - Mount Cottrell
213041360	Taylors Hill
213051361	Hoppers Crossing - North
213051362	Hoppers Crossing - South
213051363	Laverton
213051364	Point Cook
213051365	Tarneit
213051366	Truganina
213051367	Werribee
213051368	Werribee - South
213051369	Wyndham Vale
214011370	Carrum Downs
214011371	Frankston
214011372	Frankston North
214011373	Frankston South
214011374	Langwarrin
214011375	Seaford (Vic.)
214011376	Skye - Sandhurst
214021377	Dromana
214021378	Flinders
214021379	Hastings - Somers
214021380	Mornington
214021381	Mount Eliza
214021382	Mount Martha
214021383	Point Nepean
214021384	Rosebud - McCrae

SA2 Code (2011)	SA2 Name (2011)
214021385	Somerville
215011386	Ararat
215011387	Ararat Region
215011388	Horsham
215011389	Horsham Region
215011390	Nhill Region
215011391	St Arnaud
215011392	Stawell
215011393	West Wimmera
215011394	Yarriambiack
215021395	Irymple
215021396	Merbein
215021397	Mildura
215021398	Mildura Region
215021399	Red Cliffs
215031400	Buloke
215031401	Gannawarra
215031402	Kerang
215031403	Robinvale
215031404	Swan Hill
215031405	Swan Hill Region
216011406	Echuca
216011407	Kyabram
216011408	Lockington - Gunbower
216011409	Rochester
216011410	Rushworth
216021411	Cobram
216021412	Moira
216021413	Numurkah
216021414	Yarrawonga
216031415	Mooroopna



SA2 Code (2011)	SA2 Name (2011)
216031416	Shepparton - North
216031417	Shepparton - South
216031418	Shepparton Region - East
216031419	Shepparton Region - West
217011420	Glenelg (Vic.)
217011421	Hamilton (Vic.)
217011422	Portland
217011423	Southern Grampians
217021424	Camperdown
217021425	Colac
217021426	Colac Region
217021427	Corangamite - North
217021428	Corangamite - South
217021429	Moyne - East
217021430	Moyne - West
217021431	Otway
217021432	Warrnambool - North
217021433	Warrnambool - South
301011001	Alexandra Hills
301011002	Belmont - Gumdale
301011003	Birkdale
301011004	Capalaba
301011005	Thorneside
301011006	Wellington Point
301021007	Cleveland
301021008	Ormiston
301021009	Redland Bay

SA2 Code (2011)	SA2 Name (2011)
301021010	Redland Islands
301021011	Sheldon - Mount Cotton
301021012	Thornlands
301021013	Victoria Point
301031015	Manly - Lota
301031016	Manly West
301031017	Murarrie
301031018	Tingalpa
301031019	Wakerley
301031020	Wynnum
301031021	Wynnum West - Hemmant
302011022	Bald Hills
302011023	Bridgeman Downs
302011024	Carseldine
302011025	Everton Park
302011026	McDowall
302021027	Aspley
302021028	Chermside
302021029	Chermside West
302021030	Geebung
302021031	Kedron - Gordon Park
302021032	Stafford
302021033	Stafford Heights
302021034	Wavell Heights
302031035	Boondall
302031038	Northgate - Virginia
302031039	Nudgee - Banyo
302031040	Nundah
302041041	Bracken Ridge
302041042	Brighton (Qld)

SA2 Code (2011)	SA2 Name (2011)
302041043	Deagon
302041044	Sandgate - Shorncliffe
302041045	Taigum - Fitzgibbon
302041046	Zillmere
303011047	Camp Hill
303011048	Cannon Hill
303011049	Carina
303011050	Carina Heights
303011051	Carindale
303021052	Annerley
303021053	Coorparoo
303021054	Fairfield - Dutton Park
303021055	Greenslopes
303021056	Holland Park
303021057	Holland Park West
303021058	Woolloongabba
303021059	Yeronga
303031060	Eight Mile Plains
303031061	Macgregor (Qld)
303031062	Mansfield (Qld)
303031063	Mount Gravatt
303031064	Rochedale - Burbank
303031065	Upper Mount Gravatt
303031066	Wishart
303041067	Coopers Plains
303041068	Moorooka
303041069	Robertson
303041070	Salisbury - Nathan



SA2 Code (2011)	SA2 Name (2011)
303041071	Tarragindi
303051072	Algester
303051073	Calamvale - Stretton
303051074	Pallara - Willawong
303051075	Parkinson - Drewvale
303051076	Rocklea - Acacia Ridge
303061077	Kuraby
303061078	Runcorn
303061079	Sunnybank
303061080	Sunnybank Hills
304011081	Jindalee - Mount Ommaney
304011082	Middle Park - Jamboree Heights
304011083	Riverhills
304011084	Seventeen Mile Rocks - Sinnamon Park
304011085	Westlake
304021086	Bellbowrie - Moggill
304021087	Brookfield - Kenmore Hills
304021088	Chapel Hill
304021089	Fig Tree Pocket
304021090	Kenmore
304021091	Pinjarra Hills - Pullenvale
304031092	Chelmer - Graceville
304031093	Corinda
304031094	Indooroopilly
304031095	Sherwood
304031096	St Lucia

SA2 Code (2011)	SA2 Name (2011)
304031097	Taringa
304041098	Enoggera
304041100	Keperra
304041101	Mitchelton
304041103	The Gap
304041104	Upper Kedron - Ferny Grove
305011105	Brisbane City
305011106	Fortitude Valley
305011107	Highgate Hill
305011108	Kangaroo Point
305011109	New Farm
305011110	South Brisbane
305011111	Spring Hill
305011112	West End
305021113	Balmoral
305021114	Bulimba
305021115	East Brisbane
305021116	Hawthorne
305021117	Morningside - Seven Hills
305021118	Norman Park
305031119	Albion
305031120	Alderley
305031121	Ascot
305031122	Clayfield
305031123	Grange
305031124	Hamilton (Old)
305031125	Hendra
305031126	Kelvin Grove - Herston
305031127	Newmarket
305031128	Newstead - Bowen Hills

SA2 Code (2011)	SA2 Name (2011)
305031129	Wilston
305031130	Windsor
305031131	Woolloowin - Lutwyche
305041132	Ashgrove
305041133	Auchenflower
305041134	Bardon
305041135	Paddington - Milton
305041136	Red Hill (Old)
305041137	Toowong
306011138	Brinsmead
306011139	Clifton Beach - Kewarra Beach
306011140	Freshwater - Stratford
306011141	Redlynch
306011142	Trinity Beach - Smithfield
306011143	Yorkeys Knob - Machans Beach
306021144	Bentley Park
306021145	Cairns City
306021146	Earlville - Bayview Heights
306021147	Edmonton
306021148	Gordonvale - Trinity
306021149	Kanimbla - Mooroolbool
306021151	Manoora
306021152	Manunda
306021153	Mount Sheridan
306021154	Westcourt - Bungalow
306021155	White Rock
306021156	Whitfield - Edge Hill



SA2 Code (2011)	SA2 Name (2011)
306021157	Woree
306031158	Babinda
306031159	Innisfail
306031160	Johnstone
306031161	Tully
306031163	Yarrabah
306041164	Daintree
306041165	Port Douglas
306051166	Atherton
306051167	Herberton
306051168	Kuranda
306051169	Malanda - Yungaburra
306051170	Mareeba
307011171	Balonne
307011172	Chinchilla
307011173	Goondiwindi
307011174	Inglewood - Waggamba
307011175	Miles - Wandoan
307011176	Roma
307011177	Roma Region
307011178	Tara
307021179	Crows Nest - Rosalie
307021180	Jondaryan
307021181	Millmerran
307021182	Pittsworth
307021183	Wambo
307031184	Clifton - Greenmount
307031185	Southern Downs - East
307031186	Southern Downs - West

SA2 Code (2011)	SA2 Name (2011)
307031187	Stanthorpe
307031188	Stanthorpe Region
307031189	Warwick
308011190	Central Highlands - East
308011191	Central Highlands - West
308011192	Emerald
308021193	Agnes Water - Miriam Vale
308021194	Banana
308021195	Biloela
308021196	Boyne Island - Tannum Sands
308021198	Clinton - New Auckland
308021199	Gladstone
308021200	Gladstone Hinterland
308021201	Kin Kora - Sun Valley
308021203	Telina - Toolooa
308021204	West Gladstone
308031205	Berserker
308031206	Bouldercombe
308031207	Emu Park
308031208	Frenchville - Mount Archer
308031209	Glenlee - Rockyview
308031210	Gracemere
308031211	Lakes Creek
308031212	Mount Morgan
308031213	Norman Gardens
308031214	Park Avenue
308031215	Parkhurst - Kawana

SA2 Code (2011)	SA2 Name (2011)
308031216	Rockhampton - West
308031217	Rockhampton City
308031218	Rockhampton Region - East
308031219	Rockhampton Region - North
308031220	Rockhampton Region - West
308031222	The Range - Allenstown
308031223	Yeppoon
309011224	Broadbeach Waters
309011225	Burleigh Heads
309011226	Burleigh Waters
309011227	Mermaid Beach - Broadbeach
309011228	Mermaid Waters
309011229	Miami
309021230	Coolangatta
309021231	Currumbin - Tugun
309021232	Currumbin Waters
309021233	Elanora
309021234	Palm Beach
309031235	Arundel
309031236	Biggera Waters
309031237	Coombabah
309031238	Labrador
309031239	Paradise Point - Hollywell
309031240	Runaway Bay
309041241	Guanaba - Springbrook
309041242	Tamborine - Canungra



SA2 Code (2011)	SA2 Name (2011)
309051243	Currumbin Valley - Tallebudgera
309051244	Mudgeeraba - Bonogin
309051245	Reedy Creek - Andrews
309061246	Carrara
309061247	Highland Park
309061248	Nerang - Mount Nathan
309061249	Pacific Pines - Gaven
309061250	Worongary - Tallai
309071251	Coomera
309071252	Helensvale
309071253	Hope Island
309071254	Jacobs Well - Alberton
309071255	Ormeau - Yatala
309071256	Oxenford - Maudsland
309071257	Pimpama
309071258	Upper Coomera - Willow Vale
309081259	Clear Island Waters
309081260	Merrimac
309081261	Robina
309081262	Varsity Lakes
309091263	Ashmore
309091264	Molendinar
309091265	Parkwood
309091266	Southport
309101267	Benowa
309101268	Bundall
309101269	Main Beach

SA2 Code (2011)	SA2 Name (2011)
309101270	Surfers Paradise
310011271	Darra - Sumner
310011272	Durack
310011273	Forest Lake - Doolandella
310011274	Inala - Richlands
310011275	Oxley (Qld)
310011276	Wacol
310021277	Boonah
310021278	Esk
310021280	Lockyer Valley - East
310021281	Lowood
310021282	Rosewood
310031283	Brassall
310031284	Bundamba
310031285	Churchill - Yamanto
310031286	Ipswich - Central
310031287	Ipswich - East
310031288	Ipswich - North
310031289	Karalee - Barellan Point
310031290	Karana Downs
310031291	Leichhardt - One Mile
310031292	North Ipswich - Tivoli
310031293	Raceview
310031294	Ripley
310031295	Riverview
310041296	Bellbird Park - Brookwater
310041297	Camira - Gailles
310041299	Collingwood Park - Redbank

SA2 Code (2011)	SA2 Name (2011)
310041300	Goodna
310041302	Redbank Plains
310041303	Springfield
310041304	Springfield Lakes
311011305	Beaudesert
311021306	Beenleigh
311021307	Eagleby
311021308	Edens Landing - Holmview
311021309	Mount Warren Park
311021310	Wolfdene - Bahrs Scrub
311031311	Boronia Heights - Park Ridge
311031312	Browns Plains
311031313	Chambers Flat - Logan Reserve
311031314	Crestmead
311031316	Hillcrest
311031317	Marsden
311031318	Munruben - Park Ridge South
311031319	Regents Park - Heritage Park
311041320	Greenbank
311041321	Jimboomba
311041322	Logan Village
311051323	Bethania - Waterford
311051324	Cornubia - Carbrook
311051325	Loganholme - Tanah Merah
311051326	Loganlea
311051327	Shailer Park
311051328	Waterford West



SA2 Code (2011)	SA2 Name (2011)
311061329	Daisy Hill
311061330	Kingston
311061331	Logan Central
311061332	Rochedale South - Priestdale
311061333	Slacks Creek
311061334	Springwood
311061335	Underwood
311061336	Woodridge
312011337	Bowen
312011338	Broadsound - Nebo
312011339	Clermont
312011340	Collinsville
312011341	Moranbah
312021342	Andergrove - Beaconsfield
312021343	East Mackay
312021344	Eimeo - Rural View
312021346	Mackay
312021347	Mackay Harbour
312021348	Mount Pleasant - Glenella
312021349	North Mackay
312021350	Ooralea - Bakers Creek
312021351	Pioneer Valley
312021352	Sarina
312021353	Seaforth - Calen
312021354	Shoal Point - Bucasia
312021355	Slade Point
312021356	South Mackay
312021357	Walkerston - Eton

SA2 Code (2011)	SA2 Name (2011)
312021358	West Mackay
312031359	Airlie - Whitsundays
312031361	Proserpine
313011362	Beachmere - Sandstone Point
313011363	Bribie Island
313021364	Burpengary - East
313021365	Caboolture
313021366	Caboolture - South
313021367	Elimbah
313021368	Morayfield - East
313021369	Wamuran
313031370	Kilcoy
313031371	Woodford - D'Aguiar
313041372	Burpengary
313041373	Deception Bay
313041374	Morayfield
313041375	Narangba
313041376	Upper Caboolture
313051377	Clontarf
313051378	Margate - Woody Point
313051379	Redcliffe
313051380	Rothwell - Kippa-Ring
313051381	Scarborough - Newport
314011382	Albany Creek
314011383	Cashmere
314011384	Dayboro
314011385	Eatons Hill
314011386	Hills District

SA2 Code (2011)	SA2 Name (2011)
314011387	Samford Valley
314021388	Dakabin - Kallangur
314021389	Murrumba Downs - Griffin
314021390	North Lakes - Mango Hill
314031391	Bray Park
314031392	Lawnton
314031393	Petrie
314031394	Strathpine - Brendale
315011395	Aurukun
315011396	Cape York
315011397	Croydon - Etheridge
315011398	Kowanyama - Pormpuraaw
315011399	Northern Peninsula
315011400	Tablelands
315011401	Torres
315011402	Torres Strait Islands
315011403	Weipa
315021404	Carpentaria
315021405	Mount Isa
315021406	Mount Isa Region
315021407	Northern Highlands
315031408	Barcaldine - Blackall
315031409	Charleville
315031410	Far Central West
315031411	Far South West
315031412	Longreach



SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)
316011413	Buderim - North	316051438	Tewantin	318011465	Ingham Region
316011414	Buderim - South	316061439	Beerwah	318011466	Palm Island
316011415	Mountain Creek	316061440	Caloundra Hinterland	318021467	Aitkenvale
316011416	Sippy Downs	316061441	Glass House Mountains	318021468	Annandale
316021417	Aroona - Currimundi	316061442	Landsborough	318021469	Belgian Gardens - Pallarenda
316021418	Buddina - Minyama	316061443	Maroochy Hinterland	318021470	Bohle Plains
316021419	Caloundra - Kings Beach	316061444	Palmwoods	318021471	Condon - Rasmussen
316021420	Caloundra - West	317011445	Cambooya - Wyreema	318021472	Cranbrook
316021421	Golden Beach - Pelican Waters	317011446	Darling Heights	318021473	Deeragun
316021422	Moffat Beach - Battery Hill	317011447	Drayton - Harristown	318021474	Douglas
316021423	Parrearra - Warana	317011448	Gatton	318021475	Garbutt - West End
316021424	Wurtulla - Birtinya	317011449	Gowrie (Old)	318021476	Gulliver - Currajong - Vincent
316031425	Coolum Beach	317011450	Highfields	318021477	Heatley
316031426	Marcoola - Mudjimba	317011451	Lockyer Valley - West	318021478	Hermit Park - Rosslea
316031427	Maroochydore - Kuluin	317011452	Middle Ridge	318021479	Hyde Park - Pimlico
316031428	Mooloolaba - Alexandra Headland	317011453	Newtown (Qld)	318021480	Kelso
316041429	Bli Bli	317011454	North Toowoomba - Harlaxton	318021481	Kirwan - East
316041430	Diddillibah - Rosemount	317011455	Rangeville	318021482	Kirwan - West
316041431	Eumundi - Yandina	317011456	Toowoomba - Central	318021483	Magnetic Island
316041432	Nambour	317011457	Toowoomba - East	318021484	Mount Louisa
316041433	Noosa Hinterland	317011458	Toowoomba - West	318021485	Mundingburra
316051434	Noosa Heads	317011459	Wilsonton	318021486	Northern Beaches
316051435	Noosaville	318011460	Ayr	318021487	Ooonoona
316051436	Peregian	318011461	Burdekin	318021488	South Townsville - Railway Estate
316051437	Sunshine Beach	318011462	Charters Towers	318021489	Townsville - South
		318011463	Dalrymple	318021490	Townsville City - North Ward
		318011464	Ingham	318021491	Wulguru - Roseneath



SA2 Code (2011)	SA2 Name (2011)
319011492	Ashfield - Kepnock
319011493	Barqara - Burnett Heads
319011494	Branyan - Kensington
319011495	Bundaberg
319011496	Bundaberg East - Kalkie
319011497	Bundaberg North - Gooburrum
319011498	Bundaberg Region - North
319011499	Bundaberg Region - South
319011500	Millbank - Avoca
319011501	Svensson Heights - Norville
319011502	Walkervale - Avenell Heights
319021503	Gayndah - Mundubbera
319021504	Gin Gin
319021505	Kingaroy
319021506	Kingaroy Region - North
319021507	Kingaroy Region - South
319021508	Monto - Eidsvold
319021509	Nanango
319031511	Cooloolo
319031512	Gympie - North
319031513	Gympie - South
319031514	Gympie Region
319031515	Kilkivan
319041516	Booral - River Heads
319041517	Craignish - Dundowran Beach

SA2 Code (2011)	SA2 Name (2011)
319041518	Pialba - Eli Waters
319041519	Point Vernon
319041520	Torquay - Scarness - Kawungan
319041521	Urangan - Wondunna
319051522	Burrum - Fraser
319051523	Granville
319051524	Maryborough (Qld)
319051525	Maryborough Region - South
319051526	Tinana
401011001	Adelaide
401011002	North Adelaide
401021003	Adelaide Hills
401021004	Aldgate - Stirling
401021005	Hahndorf - Echunga
401021006	Lobethal - Woodside
401021007	Mount Barker
401021008	Mount Barker Region
401021009	Nairne
401021010	Uraidla - Summertown
401031011	Burnside - Wattle Park
401031012	Glenside - Beaumont
401031013	Toorak Gardens
401041014	Athelstone
401041015	Paradise - Newton
401041016	Rostrevor - Magill
401051017	Norwood (SA)

SA2 Code (2011)	SA2 Name (2011)
401051018	Payneham - Felixstow
401051019	St Peters - Marden
401061020	Nailsworth - Broadview
401061021	Prospect
401061022	Walkerville
401071023	Goodwood - Millswood
401071024	Unley - Parkside
402011025	Gawler - North
402011026	Gawler - South
402011027	Lewiston - Two Wells
402021028	Craigmore - Blakeview
402021029	Davoren Park
402021030	Elizabeth
402021031	Elizabeth East
402021032	Munno Para West - Angle Vale
402021033	One Tree Hill
402021034	Smithfield - Elizabeth North
402021035	Virginia - Waterloo Corner
402031036	Enfield - Blair Athol
402031037	Northgate - Oakden - Gilles Plains
402031038	Windsor Gardens
402041040	Ingle Farm
402041041	Para Hills
402041043	Parafield Gardens
402041044	Paralowie



SA2 Code (2011)	SA2 Name (2011)
402041045	Pooraka
402041046	Salisbury
402041047	Salisbury East
402041048	Salisbury North
402051049	Golden Grove
402051050	Greenwith
402051051	Highbury - Dernancourt
402051052	Hope Valley - Modbury
402051053	Modbury Heights
402051054	Redwood Park
402051055	St Agnes - Ridgehaven
403011056	Brighton (SA)
403011057	Glenelg (SA)
403021058	Edwardstown
403021059	Hallett Cove
403021060	Marino - Seaview Downs
403021061	Mitchell Park
403021062	Morphettville
403021063	Sheidow Park - Trott Park
403021064	Warradale
403031065	Belair
403031066	Bellevue Heights
403031067	Blackwood
403031068	Colonel Light Gardens
403031069	Mitcham (SA)
403031070	Panorama
403041071	Aberfoyle Park

SA2 Code (2011)	SA2 Name (2011)
403041072	Aldinga
403041073	Christie Downs
403041074	Christies Beach
403041075	Clarendon
403041076	Coromandel Valley
403041077	Flagstaff Hill
403041078	Hackham - Onkaparinga Hills
403041079	Hackham West - Huntfield Heights
403041080	Happy Valley
403041083	McLaren Vale
403041084	Morphett Vale - East
403041085	Morphett Vale - West
403041086	Reynella
403041087	Seaford (SA)
403041088	Willunga
403041089	Woodcroft
404011090	Beverley
404011091	Flinders Park
404011092	Henley Beach
404011093	Hindmarsh - Brompton
404011094	Royal Park - Hendon - Albert Park
404011095	Seaton - Grange
404011096	West Lakes
404011097	Woodville - Cheltenham
404021099	Largs Bay - Semaphore
404021100	North Haven

SA2 Code (2011)	SA2 Name (2011)
404021101	Port Adelaide
404021102	The Parks
404031105	Fulham
404031106	Lockleys
404031107	Plympton
404031108	Richmond (SA)
404031109	West Beach
405011110	Barossa - Angaston
405011111	Light
405011112	Lyndoch
405011113	Mallala
405011114	Nuriootpa
405011115	Tanunda
405021116	Clare
405021117	Gilbert Valley
405021118	Goyder
405021119	Wakefield - Barunga West
405031120	Jamestown
405031121	Peterborough - Mount Remarkable
405031122	Port Pirie
405031123	Port Pirie Region
405041124	Kadina
405041125	Moonta
405041126	Walleroo
405041127	Yorke Peninsula - North
405041128	Yorke Peninsula - South
406011129	Ceduna
406011130	Eyre Peninsula
406011131	Kimba - Cleve - Franklin Harbour



SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)
406011132	Le Hunte - Elliston	407031163	Loxton Region	502011022	Falcon - Wannanup
406011133	Port Lincoln	407031164	Mannum	502011023	Greenfields
406011134	West Coast (SA)	407031165	Murray Bridge	502011024	Halls Head - Erskine
406011135	Western	407031166	Murray Bridge Region	502011025	Mandurah
406011136	Whyalla	407031167	Renmark	502011026	Mandurah - East
406021138	APY Lands	407031168	Renmark Region	502011027	Mandurah - North
406021139	Coober Pedy	407031169	The Coorong	502011028	Mandurah - South
406021140	Flinders Ranges	407031170	Waikerie	502011029	Pinjarra
406021141	Outback	501011001	Augusta	503011030	City Beach
406021142	Port Augusta	501011002	Busselton	503011031	Claremont (WA)
406021143	Roxby Downs	501011003	Busselton Region	503011032	Cottesloe
407011144	Goolwa - Port Elliot	501011004	Margaret River	503011033	Floreat
407011145	Kangaroo Island	501021005	Australind - Leschenault	503011034	Mosman Park - Peppermint Grove
407011146	Strathalbyn	501021006	Bunbury	503011035	Nedlands - Dalkeith - Crawley
407011147	Strathalbyn Region	501021007	Capel	503011036	Swanbourne - Mount Claremont
407011148	Victor Harbor	501021008	College Grove - Carey Park	503021038	Mount Hawthorn - Leederville
407011149	Yankalilla	501021009	Collie	503021039	Mount Lawley - Inglewood
407021150	Grant	501021010	Dardanup	503021040	North Perth
407021151	Kingston - Robe	501021012	Eaton - Pelican Point	503021041	Perth City
407021152	Millicent	501021013	Gelorup - Dalyellup - Stratham	503021042	Subiaco - Shenton Park
407021153	Mount Gambier	501021014	Harvey	503021043	Wembley - West Leederville - Glendalough
407021154	Naracoorte	501021015	Koombana	504011044	Bassendean - Eden Hill - Ashfield
407021155	Naracoorte Region	501021016	Waroona	504011045	Bayswater - Embleton - Bedford
407021156	Penola	501031017	Bridgetown - Boyup Brook	504011046	Maylands
407021157	Tatiara	501031018	Donnybrook - Balingup		
407021158	Wattle Range	501031019	Manjimup		
407031159	Barmera	501031020	Pemberton		
407031160	Berri	502011021	Dawesville - Bouvard		
407031161	Karoonda - Lameroo				
407031162	Loxton				



SA2 Code (2011)	SA2 Name (2011)
504011047	Morley
504011048	Noranda
504021049	Chidlow
504021050	Glen Forrest - Darlington
504021051	Helena Valley - Koongamia
504021053	Mundaring
504021054	Swan View - Greenmount - Midvale
504031056	Ballajura
504031057	Beechboro
504031058	Bullsbrook
504031059	Ellenbrook
504031060	Gidgegannup
504031061	Hazelmere - South Guildford
504031062	Lockridge - Kiara
504031065	Middle Swan - Herne Hill
504031066	Midland - Guildford
504031067	Stratton - Jane Brook
504031068	The Vines
505011070	Craigie - Beldon
505011071	Currambine - Kinross
505011072	Duncraig
505011073	Greenwood - Warwick
505011074	Heathridge - Connolly
505011075	Hillarys
505011076	Iluka - Burns Beach
505011077	Joondalup - Edgewater

SA2 Code (2011)	SA2 Name (2011)
505011078	Kingsley
505011079	Mullaloo - Kallaroo
505011080	Ocean Reef
505011081	Padbury
505011082	Sorrento - Marmion
505011083	Woodvale
505021084	Balcatta - Hamersley
505021085	Balga - Mirabooka
505021086	Dianella
505021088	Innaloo - Doubleview
505021089	Karrinyup - Gwelup - Carine
505021090	Nollamara - Westminster
505021092	Scarborough
505021093	Stirling - Osborne Park
505021094	Trigg - North Beach - Watermans Bay
505021095	Tuart Hill - Joondanna
505021096	Wembley Downs - Churchlands - Woodlands
505021097	Yokine - Coolbinia - Menora
505031098	Alexander Heights - Koondoola
505031099	Butler - Merriwa - Ridgewood
505031100	Carramar
505031101	Clarkson
505031102	Girrawheen

SA2 Code (2011)	SA2 Name (2011)
505031103	Madeley - Darch - Landsdale
505031104	Marangaroo
505031105	Mindarie - Quinns Rocks - Jindalee
505031107	Tapping - Ashby - Sinagra
505031108	Wanneroo
505031109	Yanchep
506011110	Armadale - Wungong - Brookdale
506011112	Camillo - Champion Lakes
506011113	Forrestdale - Harrisdale - Piara Waters
506011114	Kelmscott
506011115	Mount Nasura - Mount Richon - Bedforddale
506011116	Roleystone
506011117	Seville Grove
506021118	Belmont - Ascot - Redcliffe
506021119	East Victoria Park - Carlisle
506021122	Rivervale - Kewdale - Cloverdale
506021123	Victoria Park - Lathlain - Burswood
506031124	Bentley - Wilson - St James
506031125	Canning Vale - West
506031127	Cannington - Queens Park
506031128	Parkwood - Ferndale - Lynwood



SA2 Code (2011)	SA2 Name (2011)
506031129	Riverton - Shelley - Rossmoyne
506031131	Willetton
506041132	Beckenham - Kenwick - Langford
506041133	Canning Vale - East
506041134	Gosnells
506041135	Huntingdale - Southern River
506041136	Maddington - Orange Grove - Martin
506041137	Thornlie
506051138	Forrestfield - Wattle Grove
506051139	High Wycombe
506051140	Kalamunda - Maida Vale - Gooseberry Hill
506051141	Lesmurdie - Bickley - Carmel
506061142	Byford
506061143	Mundijong
506061144	Serpentine - Jarrahdale
506071145	Como
506071146	Manning - Waterford
506071147	South Perth - Kensington
507011148	Banjup
507011149	Beeliar
507011152	Coogee
507011153	Coolbellup
507011154	Hamilton Hill
507011156	Jandakot
507011158	North Coogee

SA2 Code (2011)	SA2 Name (2011)
507011159	South Lake - Cockburn Central
507011160	Spearwood
507011161	Success - Hammond Park
507011162	Wattleup
507011163	Yangebup
507021164	East Fremantle
507021165	Fremantle
507021166	Fremantle - South
507031168	Anketell - Wandi
507031169	Bertram - Wellard (West)
507031170	Calista
507031171	Casuarina - Wellard (East)
507031174	Parmelia - Orelia
507041175	Applecross - Ardross
507041176	Bateman
507041177	Bicton - Palmyra
507041178	Booragoon
507041179	Bull Creek
507041180	Leeming
507041181	Melville
507041182	Murdoch - Kardinya
507041183	Willagee
507041184	Winthrop
507051185	Baldivis
507051186	Cooloongup
507051187	Port Kennedy
507051188	Rockingham
507051190	Safety Bay - Shoalwater

SA2 Code (2011)	SA2 Name (2011)
507051191	Singleton - Golden Bay - Secret Harbour
507051192	Waikiki
507051193	Warnbro
508011194	Esperance
508011195	Esperance Region
508021196	Carnarvon
508021197	Exmouth
508031198	Boulder
508031199	Kalgoorlie
508031200	Kalgoorlie - North
508031202	Kambalda - Coolgardie - Norseman
508031203	Leinster - Leonora
508041205	Broome
508041206	Derby - West Kimberley
508041207	Halls Creek
508041208	Kununurra
508041209	Roebuck
508051210	Geraldton
508051211	Geraldton - East
508051212	Geraldton - North
508051213	Geraldton - South
508051214	Irwin
508051215	Meekatharra
508051216	Morawa
508051217	Northampton - Mullewa - Greenough
508061218	Ashburton (WA)
508061219	East Pilbara



SA2 Code (2011)	SA2 Name (2011)
508061220	Karratha
508061221	Newman
508061222	Port Hedland
508061223	Roebourne
508061224	South Hedland
509011225	Albany
509011226	Albany Region
509011227	Bayonet Head - Lower King
509011228	Denmark
509011229	Gnowangerup
509011230	Katanning
509011231	Kojonup
509011232	Little Grove - Elleker
509011233	McKail - Willyung
509011234	Plantagenet
509021236	Chittering
509021237	Cunderdin
509021238	Dowerin
509021239	Gingin - Dandaragan
509021240	Merredin
509021241	Moora
509021242	Mukinbudin
509021243	Northam
509021244	Toodyay
509021245	York - Beverley
509031246	Brookton
509031247	Kulin
509031248	Murray
509031249	Narrogin
509031250	Wagin

SA2 Code (2011)	SA2 Name (2011)
601011001	Bridgewater - Gagebrook
601011002	Brighton - Pontville
601011003	Old Beach - Otago
601021004	Bellerive - Rosny
601021005	Cambridge
601021006	Geilston Bay - Risdon
601021007	Howrah - Tranmere
601021008	Lindisfarne - Rose Bay
601021009	Mornington - Warrane
601021010	Risdon Vale
601021011	Rokeby
601021012	South Arm
601031013	Austins Ferry - Granton
601031014	Berriedale - Chigwell
601031015	Claremont (Tas.)
601031016	Derwent Park - Lutana
601031017	Glenorchy
601031018	Montrose - Rosetta
601031019	Moonah
601031020	New Norfolk
601031021	West Moonah
601041022	Kingston - Huntingfield
601041023	Kingston Beach - Blackmans Bay
601041024	Margate - Snug
601041026	Taroona - Bonnet Hill
601051027	Hobart

SA2 Code (2011)	SA2 Name (2011)
601051028	Lenah Valley - Mount Stuart
601051029	Mount Nelson - Dynnryne
601051030	New Town
601051031	Sandy Bay
601051032	South Hobart - Fern Tree
601051033	West Hobart
601061034	Dodges Ferry - Lewisham
601061035	Sorell - Richmond
602011036	Invermay
602011037	Kings Meadows - Punchbowl
602011038	Launceston
602011039	Legana
602011040	Mowbray
602011041	Newnham - Mayfield
602011042	Newstead
602011043	Norwood (Tas.)
602011044	Prospect Vale - Blackstone
602011045	Ravenswood
602011046	Riverside
602011047	South Launceston
602011048	Summerhill - Prospect
602011049	Trevallyn
602011050	Waverley - St Leonards
602011051	West Launceston
602011052	Youngtown - Relbia
602021053	Beauty Point - Beaconsfield



SA2 Code (2011)	SA2 Name (2011)
602021054	Deloraine
602021055	Grindelwald - Lanena
602021056	Hadspen - Carrick
602021057	Westbury
602031058	Dilston - Lilydale
602031059	George Town
602031060	Longford
602031061	Northern Midlands
602031062	Perth - Evandale
602031063	Scottsdale - Bridport
602031064	St Helens - Scamander
603011065	Central Highlands
603011066	Derwent Valley
603011067	Southern Midlands
603021069	Bruny Island - Kettering
603021070	Cygnets
603021071	Geeveston - Dover
603021072	Huonville - Franklin
603031073	Forestier - Tasman
603031074	Triabunna - Bicheno
604011075	Acton - Upper Burnie
604011076	Burnie - Ulverstone Region
604011077	Burnie - Wivenhoe
604011078	Parklands - Camdale

SA2 Code (2011)	SA2 Name (2011)
604011079	Penguin - Sulphur Creek
604011080	Romaine - Havenview
604011081	Somerset
604011082	Ulverstone
604011083	West Ulverstone
604011084	Wynyard
604021085	Devonport
604021086	East Devonport
604021087	Latrobe
604021088	Miandetta - Don
604021089	Port Sorell
604021090	Quoiba - Spreyton
604021091	Sheffield - Railton
604021092	Turners Beach - Forth
604031093	King Island
604031094	North West
604031095	Smithton
604031096	Waratah
604031097	West Coast (Tas.)
701011002	Darwin City
701011004	Fannie Bay - The Gardens
701011005	Larrakeyah
701011006	Ludmilla - The Narrows
701011007	Parap
701011008	Stuart Park
701011009	Woolner - Bayview - Winnellie
701021010	Alawa

SA2 Code (2011)	SA2 Name (2011)
701021011	Anula
701021012	Berrimah
701021013	Brinkin - Nakara
701021016	Coconut Grove
701021018	Jingili
701021019	Karama
701021020	Leanyer
701021021	Lyons (NT)
701021022	Malak - Marrara
701021023	Millner
701021024	Moil
701021025	Nightcliff
701021026	Rapid Creek
701021027	Tiwi
701021028	Wagaman
701021029	Wanguri
701021030	Wulagi
701031031	Howard Springs
701031032	Humpty Doo
701031034	Virginia
701031035	Weddell
701041036	Bakewell
701041037	Driver
701041038	Durack - Marlow Lagoon
701041039	Gray
701041040	Moulden
701041041	Palmerston - North
701041043	Rosebery - Bellamack
701041044	Woodroffe
702011045	Charles



SA2 Code (2011)	SA2 Name (2011)
702011046	East Side
702011047	Flynn (NT)
702011048	Larapinta
702011049	Mount Johns
702011050	Petermann - Simpson
702011051	Ross
702011052	Sandover - Plenty
702011053	Tanami
702011054	Yuendumu - Anmatjere
702021055	Barkly
702021056	Tennant Creek
702031057	Alligator
702031058	Daly
702031059	Thamarrurr
702031060	Tiwi Islands
702031061	West Arnhem
702041062	Anindilyakwa
702041063	East Arnhem
702041064	Nhulunbuy
702051065	Elsley
702051066	Gulf
702051067	Katherine
702051068	Victoria River
801011001	Aranda
801011002	Belconnen
801011003	Bruce
801011004	Charnwood
801011005	Cook
801011006	Dunlop
801011007	Evatt

SA2 Code (2011)	SA2 Name (2011)
801011008	Florey
801011009	Flynn (ACT)
801011010	Fraser
801011011	Giralang
801011013	Hawker
801011014	Higgins
801011015	Holt
801011016	Kaleen
801011017	Latham
801011019	Macgregor (ACT)
801011020	Macquarie
801011021	McKellar
801011022	Melba
801011023	Page
801011024	Scullin
801011025	Spence
801011026	Weetangera
801021027	ACT - South West
801031030	ACT - East
801041034	Amaroo
801041035	Bonner
801041036	Casey
801041037	Crace
801041038	Forde
801041039	Franklin
801041040	Gungahlin
801041043	Hall
801041044	Harrison
801041046	Ngunnawal
801041047	Nicholls
801041048	Palmerston

SA2 Code (2011)	SA2 Name (2011)
801051050	Ainslie
801051051	Braddon
801051052	Campbell
801051053	Civic
801051054	Dickson
801051055	Downer
801051056	Hackett
801051057	Lyneham
801051058	O'Connor (ACT)
801051059	Reid
801051060	Turner
801051061	Watson
801061062	Deakin
801061063	Forrest
801061064	Griffith (ACT)
801061065	Kingston - Barton
801061067	Narrabundah
801061069	Red Hill (ACT)
801061070	Yarralumla
801071071	Banks
801071072	Bonython
801071073	Calwell
801071074	Chisholm
801071075	Conder
801071076	Fadden
801071077	Gilmore
801071078	Gordon (ACT)
801071079	Gowrie (ACT)
801071080	Greenway
801071081	Isabella Plains
801071082	Kambah
801071083	Macarthur



SA2 Code (2011)	SA2 Name (2011)
801071084	Monash
801071086	Oxley (ACT)
801071087	Richardson
801071088	Theodore
801071090	Wanniassa
801081091	Chapman
801081092	Duffy
801081093	Fisher
801081094	Holder

SA2 Code (2011)	SA2 Name (2011)
801081095	Rivett
801081096	Stirling
801081097	Waramanga
801081098	Weston
801091099	Chifley
801091100	Curtin
801091101	Farrer
801091102	Garran
801091103	Hughes

SA2 Code (2011)	SA2 Name (2011)
801091104	Isaacs
801091105	Lyons (ACT)
801091106	Mawson
801091107	O'Malley
801091108	Pearce
801091109	Phillip
801091110	Torrens



Table 1.3: List of SA2s excluded from the Australian Natural Disaster Resilience Index. SA2 code is the 9-digit hierarchical code and SA2 name is the name assigned by the Australian Bureau of Statistics (ABS 2011).

SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)
101041022	Deua - Wadbilliga	205031088	French Island
103031075	Wollangambe - Wollemi	205031092	Wilson's Promontory
107011133	Port Kembla Industrial	205051099	Alps - West
107021135	Illawarra Catchment Reserve	206041120	Flemington Racecourse
108031161	Lord Howe Island	206041127	West Melbourne
111031230	Newcastle Port - Kooragang	206051131	Port Melbourne Industrial
114011275	Etrema - Sassafras - Budawang	208031184	Braeside
116031318	Prospect Reservoir	208031192	Moorabbin Airport
117011320	Banksmeadow	210011227	Essendon Airport
117011324	Port Botany Industrial	210051248	Melbourne Airport
117011325	Sydney Airport	297979799	Migratory - Offshore - Shipping (Vic.)
118011342	Centennial Park	299999499	No usual address (Vic.)
119011355	Chullora	301031014	Brisbane Port - Lytton
123021439	Holsworthy Military Area	302031036	Brisbane Airport
124011451	Blue Mountains - North	302031037	Eagle Farm - Pinkenba
124021456	Blue Mountains - South	304041099	Enoggera Reservoir
125011475	Rookwood Cemetery	304041102	Mount Coot-tha
125031486	Smithfield Industrial	306021150	Lamb Range
125031487	Yennora Industrial	306031162	Wooroonooran
127021521	Wetherill Park Industrial	308021197	Callemondah
128021537	Royal National Park	308021202	South Trees
197979799	Migratory - Offshore - Shipping (NSW)	308031221	Shoalwater Bay
199999499	No usual address (NSW)	310021279	Lake Manchester - England Creek
205021080	Alps - East	310041298	Carole Park
205021083	Lake King		



Table 1.3 (cont.)

SA2 Code (2011)	SA2 Name (2011)	SA2 Code (2011)	SA2 Name (2011)
310041301	New Chum	506021120	Kewdale Commercial
311031315	Greenbank Military Camp	506021121	Perth Airport
312021345	Eungella Hinterland	506031126	Canning Vale Commercial
312031360	Cape Conway	506031130	Welshpool
319021510	North Burnett	507011150	Bibra Industrial
397979799	Migratory - Offshore - Shipping (Qld)	507011151	Bibra Lake
399999499	No usual address (Qld)	507011155	Henderson
402041039	Dry Creek - North	507011157	Jandakot Airport
402041042	Parafield	507021167	O'Connor (WA)
403041081	Happy Valley Reservoir	507031172	Hope Valley - Postans
403041082	Lonsdale	507031173	Kwinana Industrial
404021098	Dry Creek - South	507051189	Rockingham Lakes
404021103	Torrens Island	508031201	Kalgoorlie Airport
404031104	Adelaide Airport	508031204	Trafalgar (WA)
406011137	Whyalla - North	509011235	Stirling Range National Park
497979799	Migratory - Offshore - Shipping (SA)	597979799	Migratory - Offshore - Shipping (WA)
499999499	No usual address (SA)	599999499	No usual address (WA)
501021011	Davenport	601041025	Mount Wellington
503021037	Kings Park (WA)	603011068	Wilderness - East
504021052	Malmalling - Reservoir	604031098	Wilderness - West
504031055	Avon Valley National Park	697979799	Migratory - Offshore - Shipping (Tas.)
504031063	Malaga	699999499	No usual address (Tas.)
504031064	Melaleuca - Lexia	701011001	Darwin Airport
504031069	Walyunga National Park	701011003	East Point
505021087	Herdsmen	701021014	Buffalo Creek
505021091	Osborne Park Industrial	701021015	Charles Darwin
505031106	Neerabup National Park	701021017	East Arm
506011111	Ashendon - Lesley		



Table 1.3 (cont.)

SA2 Code (2011)	SA2 Name (2011)
701031033	Koolpinyah
701041042	Palmerston - South
797979799	Migratory - Offshore - Shipping (NT)
799999499	No usual address (NT)
801011012	Gooromon
801011018	Lawson
801021028	Molonglo
801021029	Namadgi
801031031	Hume
801031032	Kowen
801031033	Majura
801041041	Gungahlin - East
801041042	Gungahlin - West

SA2 Code (2011)	SA2 Name (2011)
801041045	Mitchell
801051049	Acton
801061066	Lake Burley Griffin
801061068	Parkes (ACT)
801071085	Mount Taylor
801071089	Tuggeranong
897979799	Migratory - Offshore - Shipping (ACT)
899999499	No usual address (ACT)
901011001	Christmas Island
901021002	Cocos (Keeling) Islands
901031003	Jervis Bay
997979799	Migratory - Offshore - Shipping (OT)
999999499	No usual address (OT)



1.4 REFERENCES

- Alliance Development Works. 2014. World Risk Report, 2014. United Nations University, Institute for Environment and Human Security, Bonn, Germany.
- Annan, K. 2003. United Nations Secretary-General's message for the International Day for Disaster Reduction. United Nations, New York. Available from: <http://www.un.org/sg/statements/?nid=551>
- Arbon, P. 2014. Developing a model and tool to measure community disaster resilience. *Australian Journal of Emergency Management*, 29: 12-16.
- Australian Bureau of Statistics. 2011. Australian Statistical Geography Standard (ASGS): Volume 1 – Main Structure and Greater Capital City Statistical Areas. Australian Bureau of Statistics, July 2011 (1270.0.55.001).
- Bagozzi, R. P. 2011. Measurement and meaning in information systems and organisational research: methodological and philosophical foundations. *MIS Quarterly*, 35(2): 261-292.
- Berkes, F. 2007. Understanding uncertainty and reducing vulnerability: lessons from resilience thinking. *Natural Hazards*, 41: 283-295.
- Birkmann, J. 2006. Measuring vulnerability to promote disaster-resilient societies: conceptual frameworks and definitions. In: Birkmann, J. (Editor). *Measuring vulnerability to natural hazards: towards disaster resilient societies*. United Nations University Press: Tokyo. Pages 9-54.
- Burton, C.G. 2015. A validation of metrics for community resilience to natural hazards and disasters using the recovery from Hurricane Katrina as a case study. *Annals of the Association of American Geographers*, 105: 67-86.
- Cutter, S.L., Boruff, B.J. and Shirley, W.L. 2003. Social vulnerability to environmental hazards. *Social Science Quarterly*, 84: 242-261.
- Cutter, S.L., Barnes, L., Berry, M., Burton, C., Evans, E., Tate, E. and Webb, J. 2008. A place-based model for understanding community resilience to natural disasters. *Global Environmental Change*, 18: 598-606.
- Cutter, S.L., Burton, C.G., and Emrich, C.T. 2010. Disaster resilience indicators for benchmarking baseline conditions. *Journal of Homeland Security and Emergency Management*, 7: Issue 1, Article 51. doi: 10.2202/1547-7355.1732
- Committee on Measures of Community Resilience. 2015. Developing a framework for measuring community resilience: summary of a workshop. The National Academies Press, Washington DC.
- Downes, B.J., Barmuta, L.A., Fairweather, P.G., Faith, D.P., Keough, M.J., Lake, P.S., Mapstone, B.D. and Quinn, J.P. 2002. *Monitoring ecological impacts: concepts and practice in flowing waters*. Cambridge University Press: Cambridge.



- Engle, N.L. 2011. Adaptive capacity and its assessment. *Global Environmental Change*, 21: 647-656.
- Folke C., Colding, J. and Berkes, F. 2002. Building resilience for adaptive capacity in social-ecological systems. In: Berkes F., Colding, J. and Folke, C. (Editors). *Navigating social-ecological systems: building resilience for complexity and change*. Cambridge University Press: Cambridge. Pages 352-387.
- Handmer, J.W. and Dovers, S.R. 1996. A typology of resilience: rethinking institutions for sustainable development. *Industrial and Environmental Crisis Quarterly*, 9: 482-511.
- Jenkins, P. 2013. The nature of human communities. In: Thomas, D.S.K., Phillips, B.D., Lovekamp, W.E. and Fothergill, A. (Editors). *Social Vulnerability to Disasters*. CRC Press: Boca Raton, FL. Pages 397-413.
- Maguire, B. and Cartwright, S. 2008. Assessing a community's capacity to manage change: A resilience approach to social assessment. Bureau of Rural Sciences, Australian Government, Canberra.
- Norris, F.H., Stevens, S.P., Pfefferbaum, B., Wyche, K.F. and Pfefferbaum, R.L. 2008. Community resilience as a metaphor, theory, set of capacities and strategy for disaster readiness. *American Journal of Community Psychology*, 41: 127-150.
- O'Neill, S.J. and Handmer, J. 2012. Responding to bushfire risk: the need for transformative adaptation. *Environmental Research Letters*, 7, online. doi: 10.1088/1748-9326/7/1/014018.
- Organization for Economic Cooperation and Development (OECD). 2008. *Handbook on constructing composite indicators: methodology and user guide*. OECD, Paris.
- Parsons, M., Glavac, S., Hastings, P., Marshall, G., McGregor, J., McNeill, J., Morley, P., Reeve, I. and Stayner, R. 2016. Top-down assessment of disaster resilience: A conceptual framework using coping and adaptive capacities. *International Journal of Disaster Risk Reduction*, 19: 1-11.
- Sherrieb, K., Norris, F.H. and Galea, S. 2010. Measuring capabilities for community resilience. *Social Indicator Research*, 99: 227-247.
- Tate, E. 2012. Social vulnerability indices: a comparative assessment using uncertainty and sensitivity analysis. *Natural Hazards*, 63: 325-347.
- United Nations International Strategy for Disaster Reduction [UNISDR]. 2009. *UNISDR terminology on disaster risk reduction*. UNISDR: Switzerland.