



AdaptWest

Integrated Vulnerability Assessment: Social and Community Workshop Summary

During March 2015 three workshops were held for AdaptWest to gather input to the Integrated Vulnerability Assessment (IVA) process. Workshops were held in relation to three themes - Environment and Natural Resources, Economy and Infrastructure and Social and Community.

This summary relates to the Social and Community workshop.

Objectives of the workshop

The objectives of the workshop were to bring together a range of stakeholders that have a role or interest in the Western Adelaide Region to:

- Explain the IVA process;
- Involve stakeholders in confirming, refining and adding to the 'first pass' assessment undertaken by the AdaptWest project team; and
- Draw on the expertise and knowledge of stakeholders to complete the IVA.

Workshop process

Participants at the workshop were assigned a group and tasked with assessing a selection of indicators using the IVA framework.

The IVA is a tool that helps to identify areas of vulnerability to the impacts of climate change. The IVA is designed to consider both the potential impacts of climate change (exposure and sensitivity) and the adaptive capacity of the region (the attributes that support its ability to cope or adjust to climate change impacts).

The IVA is an important part of the AdaptWest project as it will drive the development of adaptation options for the climate change adaptation plan for the Western Region to be prepared in the next stage of the project.

At the Social and Community workshop the following aspects and features were assessed:

- CALD members of the community
- Community and civic events and celebrations
- Condition of natural cultural heritage (e.g. scar trees, heritage vineyard, springs, rivers, burial grounds)
- Demand for emergency services
- Employment by key sectors
- Incidence of anti-social behaviour
- Interruption to public transport services

- Level of support from family, friends and neighbours
- Members of the community living in public housing
- Members of the community living with mental health problems
- Members of the community under financial stress
- Members of the community who require assistance for core activities
- Members of the community with poor self-assessed health
- Older members of the community (aged >75)
- Participation in organised sport, church or community group in local area
- Rates of volunteerism in organised support groups (e.g. SLSC, Meals on Wheels, service clubs, SES)
- Younger members of the community (e.g. <12)

During the workshop participants confirmed the preliminary assessment undertaken by the project team in relation to the aspects or features listed above. Participants also considered the aspect or feature's ability to adapt, referred to as its adaptive capacity. In discussing adaptive capacity, a number of opportunities to adapt were also identified which will be taken through to the next stage of the project.

At the workshop, a facilitator facilitated and recorded discussion and entered scores in relation to the assessment directly into an Excel spreadsheet. During this process it was emphasised that the qualitative information being collected during discussion amongst participants was just as, if not more important, than the numbers being entered.

The information collected by this process as input to the IVA being prepared for AdaptWest is provided in the attached Excel spreadsheet.

Next steps

The information collected across the three IVA workshops will be consolidated, documented and analysed in the IVA report to be prepared for stage two of the AdaptWest project. The information collected will directly inform the identification of key areas of vulnerability and resilience for the Western Adelaide Region and drive the adaptation planning process to be undertaken in stage three of the project.

Grouping	Subgroup	Indicator /s	Feature to score	Exposure (Climate Variable)	Exposure Score	Sensitivity to Climate Variable	Comment	Potential Impact	Adaptive Capacity Score	Adaptive Capacity Workshop Comment	Vulnerability Score	Adaptation Options
Social	Community events and activities	Community and civic events and celebrations	Events and celebrations	Sea level rise	5	5 - High	Inundation would mean events may have to be rescheduled or cancelled	10	2	Medication does not let you sweat. Cognitive capability is low. Greater susceptibility to mortality in heatwaves. Funding for mental health services is low compared to demand	18	
Social	Community events and activities	Community and civic events and celebrations	Events and celebrations	Temperature increase	5	3 - Moderate	Possible opportunity for more events as warmer weather in winter	8	2	Restricted mobility is a key issue. Main variable is access to a good care attendant	16	
Social	Community events and activities	Community and civic events and celebrations	Events and celebrations	Heat wave increase frequency and intensity	5	5 - High	Events may have to be rescheduled or cancelled if coincide with heat waves	10	2	Restricted mobility is a key issue. Main variable is access to a good care attendant	18	
Social	Community events and activities	Community and civic events and celebrations	Events and celebrations	Rainfall intensity increase	5	5 - High	Events may have to be rescheduled or cancelled if coincide with heavy rainfall	10	2	When have multiple chronic issues there can be rapid impact of heat wave	18	
Social	Community events and activities	Condition of natural cultural heritage (e.g. scar trees, heritage vineyard, springs, rivers, burial grounds)	Condition of natural cultural heritage	Rainfall intensity increase	5	4 - Moderate to High	Condition likely to be sensitive to inundation from flooding.	9	3	Current maintenance is not designed or resourced to cope with future climate. Some irrigation could be applied, but not currently in place	16	
Social	Community events and activities	Condition of natural cultural heritage (e.g. scar trees, heritage vineyard, springs, rivers, burial grounds)	Condition of natural cultural heritage	Rainfall reduction: winter-spring	5	3 - Moderate	Cultural sites are assumed to be sensitive to reducing rainfall where this impacts on the condition of plant and animal communities and water bodies at a cultural heritage site	8	2	Current maintenance is not designed or resourced to cope with future climate	16	
Social	Community events and activities	Condition of natural cultural heritage (e.g. scar trees, heritage vineyard, springs, rivers, burial grounds)	Condition of natural cultural heritage	Sea level rise	5	4 - Moderate to High	Cultural sites are assumed to be sensitive to inundation where this impacts on the condition of plant and animal communities and water bodies at a cultural heritage site	9	6	Affects a wider proportion of the community so could be larger demand for alternate support services. Services in place however already isolated people have less people to support them. Weather forecasts can help by identifying in advance when preparation is required.	13	
Social	Community events and activities	Participation in organised sport, church or community group in local area	Participation levels	Sea level rise	5	5 - High	SLSC, Coastcare and Waterwatch sensitive as without beaches or coastal areas their activities are restricted.	10	6	Landlord is responsible for mitigating the effects of flooding/SLR	14	
Social	Community events and activities	Participation in organised sport, church or community group in local area	Participation levels	Heat wave increase frequency and intensity	5	5 - High	Sports participation restricted by extreme heat, older people highly sensitive	10	5	Medication does not let you sweat. Cognitive capability is low. Greater susceptibility to mortality in heatwaves. Funding for mental health services is low compared to demand	15	
Social	Community events and activities	Participation in organised sport, church or community group in local area	Participation levels	Temperature increase: summer - autumn	4	3 - Moderate	More hot days overall makes conditions less suitable for outdoor activities	7	6	Landlord is responsible for mitigating the effects of flooding/SLR	11	
Social	Community events and activities	Participation in organised sport, church or community group in local area	Participation levels	Rainfall intensity increase	5	3 - Moderate	Participants may not wish to leave home during extreme rain or storms	8	8	Heat Safe program from SES, warning systems, disruption to power supply impacts ability to cool. Will increase demand for ambulances. SES and BOM call extreme heat warning, action is initiated-eg specific contact made to vulnerable people via Red Cross. SES dependent on volunteers but MFS and ambulance paid. Information provision about coping with heat. Emergency services working well currently together. People living alone particularly vulnerable and those experiencing socio-economic disadvantage. other services check on people eg Meals on Wheels. Medic alert wearers can utilise to call for help.	10	Increase community connectivity and capacity of community members to look after each other rather than calling on emergency services. Focus on improving health and wellbeing and build resilience to cope better with heat
Social	Community events and activities	Participation in organised sport, church or community group in local area	Participation levels	Temperature increase: winter - spring	5	2 - Low to Moderate	Participants possibly to be sensitive to increased temperature, could be potential for increased participation in winter	7	6	Re route scheduled bus route if flooded. Main issue relates to reduced use of public transport during extreme events	11	
Social	Support services	Demand for emergency services	Demand for emergency services	Rainfall intensity increase	5	5 - High	Emergency services very likely to be required for life and property protection	10	7	Assumes availability of support outside the immediate impact area, so that not all of an individuals support network is affected by extreme event at any time, disruption to essential services and transport could limit capacity	13	
Social	Support services	Demand for emergency services	Demand for emergency services	Sea level rise	5	5 - High	Emergency services very likely to be required for life and property protection but some early warning would occur if people are aware and listening	10	5	Assumes availability of support outside the immediate impact area, so that not all of an individuals support network is affected by extreme event at any time, disruption to essential services and transport could limit capacity	15	

Grouping	Subgroup	Indicator /s	Feature to score	Exposure (Climate Variable)	Exposure Score	Sensitivity to Climate Variable	Comment	Potential Impact	Adaptive Capacity Score	Adaptive Capacity Workshop Comment	Vulnerability Score	Adaptation Options
Social	Support services	Demand for emergency services	Demand for emergency services	Heat wave increase frequency and intensity	5	5 - High	Emergency services (ambulance, hospitals) very likely to be required	10	1	Restricted mobility is a key issue. Main variable is access to a good care attendant	19	
Social	Support services	Employment by key sectors	Health and community services sector	Sea level rise	5	4 - Moderate to High	May require building / facility changes or relocation, resulting in increased costs and possibly require changes in employment	9	2	Less likely to be able to move - income, less desire	17	
Social	Support services	Employment by key sectors	Health and community services sector	Heat wave increase frequency and intensity	5	4 - Moderate to High	Demand for health care and social assistance is likely to increase in response to more frequent extreme weather events, possibly resulting in increased employment (OPPORTUNITY)	9	2		17	
Social	Support services	Employment by key sectors	Health and community services sector	Rainfall intensity increase	5	4 - Moderate to High	Demand for health care and social assistance is likely to increase in response to more frequent extreme weather events, possibly resulting in increased employment (OPPORTUNITY)	9	2	No different to other members of the community re SLR	17	Protection infrastructure such as sea walls
Social	Support services	Employment by key sectors	Manufacturing sector	Sea level rise	5	4 - Moderate to High	May require building / facility changes or relocation, resulting in increased costs and possibly require changes in employment	9	2	Key coastal hubs eg Semaphore etc will be impacted	17	
Social	Support services	Employment by key sectors	Manufacturing sector	Heat wave increase frequency and intensity	5	4 - Moderate to High	Will impact productivity of workers and machinery. Workers will be impacted where workshops are not air-conditioned, could have implications for employment levels as working conditions change	9	2	Dry Zones along beaches. Aggressive behaviour in pubs, clubs etc. More outdoor gatherings, increased drinking. Police call outs re noise interruptions to neighbours. Heat interfere with medication, mental health issues, irritability, lack of health etc	17	
Social	Support services	Employment by key sectors	Manufacturing sector	Rainfall intensity increase	5	2 - Low to Moderate	Flood water impacts with surface water disrupt access, supply chain and operations in short term, not likely to result in much change in employment	7	3	Limited A/C in public housing. Design standards are poorer.	14	
Social	Support services	Employment by key sectors	Retail trade sector	Sea level rise	5	4 - Moderate to High	May require building / facility changes or relocation, resulting in increased costs and possibly require changes in employment	9	6	Pollens and dust could exacerbate existing conditions. Low confidence in underpinning information to make an assessment	13	
Social	Support services	Employment by key sectors	Retail trade sector	Rainfall intensity increase	5	2 - Low to Moderate	Periodic restricted access to shops may have minor impact on trade, unlikely to result in much change in employment	7	7	Harder to adapt to dust and pollens and emerging diseases	10	
Social	Support services	Employment by key sectors	Retail trade sector	Heat wave increase frequency and intensity	5	3 - Moderate	People are less likely to spend time in small shops (ie in malls or streets without air-conditioning). More people may go to large regional shopping centres (e.g. West Lakes) so employment may change over time.	8	6	Management of children under 12 is different than those over 12 (high school children). Individual Councils may struggle to meet changing need for programs and facilities. School provides a mechanism to adapt for change.	12	
Social	Support services	Incidence of anti-social behaviour	Incidence of anti-social behaviour	Heat wave increase frequency and intensity	5	4 - Moderate to High	Increased gatherings of people at the beach on warm days and nights is understood to lead to higher levels of anti-social behaviour, related to higher levels of stress due to levels of heat, greater alcohol consumption and lack of sleep.	9	3	Detention basins, stormwater management infrastructure, high level of awareness of flood risk in community already, but not for some renters, new migrants etc. BHKC not fixed as yet. Flood Safe program. Increased run off due to development	16	
Social	Support services	Incidence of social behaviour- Neighbourly interactions	Neighbourly interactions	Heat wave increase frequency and intensity	5	5 - High	Often interactions occur outside, in public open spaces, over the fence etc. Less opportunity to occur during extreme events. Less opportunity for incidences to occur. People are very busy, limited time to interact	10	4	NOT SCORED AT WORKSHOP - GROUP VIEW WAS THAT IT WAS SIMILAR TO PARTICIPATION IN SPORTING, CHURCH GROUPS ETC.	16	
Social	Support services	Incidence of social behaviour- Neighbourly interactions	Neighbourly interactions	Flooding	5	5 - High	Often interactions occur outside, in public open spaces, over the fence etc. Less opportunity to occur during extreme events. Less opportunity for incidences to occur. People are very busy, limited time to interact	10	5	Ethic radio, SBS, media, ABC 891, local press, websites, SMS, Ethnic press. Cultural networking groups eg Greek and Italian groups. Some cultural groups have excellent knowledge of how to adapt to climate impacts that we can learn from. Australia refugee Association, Thebarton Senior College. work with cultural community groups to disseminate information eg re food safety. More recent arrivals and cultural groups with smaller numbers will be more vulnerable. Multicultural SA	15	Communicate in different languages re extreme events. Communicate through schools and teach children. Volunteer workforce to be CALD to improve connection/support/communication to communities. Need to draw on existing cultural community groups to disseminate information, educate, get involved etc. Direct contact on heatwave days on ways to stay cool. Contact neighbour/friend during heatwave
Social	Support services	Interruption to public transport services	Public transport	Sea level rise	5	3 - Moderate	Disruption to routes, short term interruption	8	6		12	
Social	Support services	Interruption to public transport services	Public transport	Heat wave increase frequency and intensity	5	5 - High	Rail lines buckle, buses without adequate air-conditioning not suitable for passengers or drivers, changes to scheduling	10	6		14	

Grouping	Subgroup	Indicator /s	Feature to score	Exposure (Climate Variable)	Exposure Score	Sensitivity to Climate Variable	Comment	Potential Impact	Adaptive Capacity Score	Adaptive Capacity Workshop Comment	Vulnerability Score	Adaptation Options
Social	Support services	Interruption to public transport services	Public transport	Rainfall intensity increase	5	3 - Moderate	Disruption to routes, short term interruption	8	7		11	
Social	Support services	Level of support from family, friends and neighbours	Level of support from family, friends and neighbours	Heat wave increase frequency and intensity	5	3 - Moderate	People may be less willing to leave the house during heat waves to assist others.	8	3	Storm surge will become an increasing issue. Sandbagging.	15	
Social	Support services	Level of support from family, friends and neighbours	Level of support from family, friends and neighbours	Rainfall intensity increase	5	4 - Moderate to High	Support may be reduced or not available as family, friends and neighbours work to address their own inundation issues. People may chose to relocate to areas less likely to be inundated, thereby reducing their capacity to be close and assist during times of need.	9	2	Existing design standards and building code etc	17	Relocate services/ infrastructure. Install protection infrastructure
Social	Support services	Level of support from family, friends and neighbours	Level of support from family, friends and neighbours	Sea level rise	5	4 - Moderate to High	Support may be reduced or not available as family, friends and neighbours work to address their own inundation issues. People may chose to relocate to areas less likely to be inundated, thereby reducing their capacity to be close and assist during times of need.	9	2	Port area particularly vulnerable. Impact transportation of goods impacted by inundation. Relocation of manufacturing areas difficult due to lack of alternative cost etc. Limited by zoning	17	
Social	Support services	Rates of volunteerism in organised support groups (e.g. SLSC, Meals on Wheels, service clubs, SES)	Volunteering rates	Sea level rise	5	4 - Moderate to High	Support may be reduced or not available as family, friends and neighbours work to address their own inundation issues. People may chose to relocate to areas less likely to be inundated, thereby reducing their capacity to be close and assist during times of need.	9	6		13	
Social	Support services	Rates of volunteerism in organised support groups (e.g. SLSC, Meals on Wheels, service clubs, SES)	Volunteering rates	Heat wave increase frequency and intensity	5	4 - Moderate to High	Heatwaves makes conditions less suitable for volunteering over short term. Possible to be sensitive to overall rates of volunteering	9	8	NOT SCORED AT WORKSHOP - GROUP VIEW WAS THAT IT WAS SIMILAR TO PARTICIPATION IN SPORTING, CHURCH GROUPS ETC.	11	
Social	Support services	Rates of volunteerism in organised support groups (e.g. SLSC, Meals on Wheels, service clubs, SES)	Volunteering rates	Rainfall intensity increase	5	4 - Moderate to High	Support may be reduced or not available as family, friends and neighbours work to address their own inundation issues. People may chose to relocate to areas less likely to be inundated, thereby reducing their capacity to be close and assist during times of need.	9	8	Often have air conditioning Power outages can occur and disrupt operations, some bigger centres will have auxiliary plants. May generate increased business and employment as more people visit and use facilities during extreme heat to stay cool	11	
Social	Vulnerable communities	CALD members of the community	CALD members of the community	Sea level rise	5	4 - Moderate to High	Culturally and linguistically diverse communities likely to be more sensitive as not aware of issues, response options and may not understand warnings or advice.	9	6	slow burn issue. Semaphore foreshore a key event space, can reschedule or relocate for individual event. Coastal events (eg kite flying or life saving) may not be as flexible	13	
Social	Vulnerable communities	CALD members of the community	CALD members of the community	Heat wave increase frequency and intensity	5	4 - Moderate to High	Culturally and linguistically diverse communities likely to be more sensitive as not aware of issues, response options and may not understand warnings or advice	9	9	Potential opportunity for more events in non-summer months	10	
Social	Vulnerable communities	CALD members of the community	CALD members of the community	Rainfall intensity increase	5	4 - Moderate to High	Culturally and linguistically diverse communities likely to be more sensitive as not aware of issues, response options and may not understand warnings or advice	9	5	Current maintenance is not designed or resourced to cope with future climate	14	
Social	Vulnerable communities	Members of the community living in public housing	Members of the community living in public housing	Heat wave increase frequency and intensity	5	5 - High	Households without air-conditioning in their houses or concerned about cost of operating air-conditioners more sensitive, houses often have less green areas outside due to cost of maintaining and irrigating	10	3	People living alone with no community health services or private health care had greater mortality. People in rental properties may find it difficult to install A/C. Responsibility for landlords for rental housing is important. Lack of pensioner concession will create greater stress	17	Trees, insulation, building design
Social	Vulnerable communities	Members of the community living in public housing	Members of the community living in public housing	Sea level rise	5	5 - High	People reliant on public housing sensitive as may not have resources to address inundation in short term. In longer term, relocation may be required and demand for housing may increase placing increased pressure on those living in public housing.	10	3	Community transport can move people through the community	17	
Social	Vulnerable communities	Members of the community living in public housing	Members of the community living in public housing	Rainfall intensity increase	5	4 - Moderate to High	Those in public housing sensitive to damage or destruction or insurance of property as don't have resources to repair or replace and have to rely on Housing SA.	9	3	Limited capacity to move sporting grounds in affected areas. Greater capacity to move church	16	

Grouping	Subgroup	Indicator /s	Feature to score	Exposure (Climate Variable)	Exposure Score	Sensitivity to Climate Variable	Comment	Potential Impact	Adaptive Capacity Score	Adaptive Capacity Workshop Comment	Vulnerability Score	Adaptation Options
Social	Vulnerable communities	Members of the community living in public housing	Members of the community living in public housing	Temperature increase	5	3 - Moderate	Less need for heating in winter as temperatures increase.	8	2	Intractable problem. Housing impacts will prove a challenge for financially stressed communities. Young people's adaptive capacity is tied up with the family group	16	
Social	Vulnerable communities	Members of the community living with mental health problems	Members of the community living with mental health problems	Heat wave increase frequency and intensity	5	5 - High	Heat is a stressor and is in the literature re change in behaviour (including domestic violence) as a result of heat stress. Being a recluse, mental disorder etc. also potentially exacerbated.	10	2		18	
Social	Vulnerable communities	Members of the community living with mental health problems	Members of the community living with mental health problems	Sea level rise	5	5 - High	People with mental health issues may be more sensitive to impacts of property destruction as result of coastal inundation	10	3		17	
Social	Vulnerable communities	Members of the community living with mental health problems	Members of the community living with mental health problems	Rainfall intensity increase	5	4 - Moderate to High	People with mental health issues may be more sensitive to impacts of property destruction as result of flooding	9	4	Given current circumstances, very limited. Best option is rescheduling but this may not always be possible	15	Further changes to rescheduling. Floodlighting to play in the evenings. Change policies and rules. Multi-use stadiums. Shade structures
Social	Vulnerable communities	Members of the community under financial stress	Members of the community under financial stress	Heat wave increase frequency and intensity	5	5 - High	Households without air-conditioning in their houses or concerned about cost of operating air-conditioners more sensitive, houses often have less green areas outside due to cost of maintaining and irrigating	10	3	NOT SCORED AT WORKSHOP - GROUP VIEW WAS THAT IT WAS SIMILAR TO PARTICIPATION IN SPORTING, CHURCH GROUPS ETC.	17	
Social	Vulnerable communities	Members of the community under financial stress	Members of the community under financial stress	Sea level rise	5	4 - Moderate to High	Those under financial stress very sensitive to damage or destruction or insurance of property as don't have resources to repair or replace	9	4	Localised events can increase interactions as people come together in a crisis. Causes people to be outside, assessing and fixing damage	15	
Social	Vulnerable communities	Members of the community under financial stress	Members of the community under financial stress	Rainfall intensity increase	5	4 - Moderate to High	Those under financial stress very sensitive to damage or destruction or insurance of property as don't have resources to repair or replace	9	4	Often office based, but do significant outreach work. Policies that restrict visitation during extreme events. Increased presentations at hospitals and other services. Restricted opportunity to expand sector as often government funded. Culture of sector is to help others and respond to need. Significant volunteer involvement in sector which may be impacted if helping others during extreme event	15	
Social	Vulnerable communities	Members of the community under financial stress	Members of the community under financial stress	Temperature increase	5	3 - Moderate	Less need for heating in winter as temperatures increase.	8	4	Some workplaces will be cooled. May start earlier in day. Power outages can occur and disrupt operations.	14	Reschedule time of shiftwork. Change hours of operation that are permissible, Union conditions
Social	Vulnerable communities	Members of the community who require assistance for core activities	Members of the community who require assistance for core activities	Sea level rise	5	5 - High	Support services for core activities may not be available during periods of inundation. Higher sensitivity than other vulnerable groups as this indicator relates to those who may be physically unable to assist themselves.	10	2	Flooding prevents access ie to get to work due to flooding of roads or building itself, flooding and damage to buildings. Stormwater management. Temporary issue but could be over extended period in some localities. Possible damage to stock and equipment. Is private sector so others will go elsewhere for products and services. May not be insured or adequately insured. Often don't have a lot of contingency for downtime	18	
Social	Vulnerable communities	Members of the community who require assistance for core activities	Members of the community who require assistance for core activities	Heat wave increase frequency and intensity	5	5 - High	Support services for core activities may not be available during extreme events for extended periods (>24 hours). Intense rainfall events will reduce access to core services but for shorter periods of time (< 24 hours). Higher sensitivity than other vulnerable groups as this indicator relates to those who may be physically unable to assist themselves.	10	2	Flooding prevents access ie to get to work due to flooding of roads or building itself, flooding and damage to buildings. Stormwater management. Temporary issue but could be over extended period in some localities. Possible damage to stock and equipment. Private sector so others will go elsewhere for products and services. May not be insured or adequately insured. Often don't have a lot of contingency for downtime	18	
Social	Vulnerable communities	Members of the community who require assistance for core activities	Members of the community who require assistance for core activities	Rainfall intensity increase	5	5 - High	Support services for core activities may not be available during extreme events for extended periods (>24 hours). Intense rainfall events will reduce access to core services but for shorter periods of time (< 24 hours). Higher sensitivity than other vulnerable groups as this indicator relates to those who may be physically unable to assist themselves.	10	5	If trains are disrupted, buses are put on routes. Waiting times may extend during disruption. Some bus shelters. Significant use of trains in region. Main issue relates to reduced use of public transport during extreme events	15	Bus shelters with green walls. Collect rainwater off of bus shelter roofs
Social	Vulnerable communities	Members of the community with poor self-assessed health	Members of the community with poor self-assessed health	Heat wave increase frequency and intensity	5	5 - High	Those with existing medical conditions likely to be very sensitive to heatwaves. Dehydration can cause adverse impacts to those on medications. Some people may be relying on electricity to run medical equipment	10	5	Medication does not let you sweat. Cognitive capability is low. Greater susceptibility to mortality in heatwaves. Funding for mental health services is low compared to demand	15	

Grouping	Subgroup	Indicator /s	Feature to score	Exposure (Climate Variable)	Exposure Score	Sensitivity to Climate Variable	Comment	Potential Impact	Adaptive Capacity Score	Adaptive Capacity Workshop Comment	Vulnerability Score	Adaptation Options
Social	Vulnerable communities	Members of the community with poor self-assessed health	Members of the community with poor self-assessed health	Sea level rise	5	4 - Moderate to High	Those with existing medical conditions, limited mobility or reliance on support from others likely to be sensitive to increased inundation	9	4	Often not insured in rental housing	15	May need more money for infrastructure drainage
Social	Vulnerable communities	Members of the community with poor self-assessed health	Members of the community with poor self-assessed health	Rainfall intensity increase	5	4 - Moderate to High	Those with existing medical conditions, limited mobility or reliance on support from others likely to be sensitive to increased rain intensity	9	4	There are many options but can the people impacted assist themselves?	15	
Social	Vulnerable communities	Members of the community with poor self-assessed health	Members of the community with poor self-assessed health	Temperature increase	5	3 - Moderate	Many people likely to be sensitive to increasing temperatures	8	4	More likely to be home but lower ability to move sandbags	14	
Social	Vulnerable communities	Older members of the community (aged >75)	Older members of the community	Sea level rise	5	5 - High	Older people are highly sensitive because of mobility issues, pre-existing illness and poorer health in general.	10	5	A lack of emergency refuge centres. Emergency management planning, stormwater management plans, sandbagging and Councils provide sandbags are provided where know flooding occurs, Flood Safe program, management infrastructure. Vegetable gardening is important cultural contribution and will be impacted. May be renting and have less control over maintenance and protection of homes. Risk re lack of knowledge re our beaches, rips, swimming between the flags etc and drownings as a result	15	Education regarding public health when flooding occurs. Improve coordination between different parts of Council and other organisations re checklist when flood occurs eg what communicate about. Rainwater tanks to capture water for irrigation of gardens. Capture and reuse of stormwater
Social	Vulnerable communities	Older members of the community (aged >75)	Older members of the community	Heat wave increase frequency and intensity	5	5 - High	Older people are highly sensitive because of mobility issues, pre-existing illness and poorer health in general.	10	6	Council heat policy in place cancellation and/or reschedule events, provision of shade timing of event, length of event, security, water provided, first aid officers on hand, food safety and waste disposal policies/procedures, CALD food preparation can differ. Very limited ability to adapt further and events suffer. Many can not be changed in terms of date. debate over scoring-some think AC is higher eg 7	14	
Social	Vulnerable communities	Older members of the community (aged >75)	Older members of the community	Rainfall intensity increase	5	4 - Moderate to High	Older people are highly sensitive because of mobility issues, pre-existing illness and poorer health in general.	9	6	Cancellation and rescheduling, move event indoors. More likely to cancel if rains, but can continue in relation to heatwave	13	
Social	Vulnerable communities	Older members of the community (aged >75)	Older members of the community	Temperature increase	5	4 - Moderate to High	Less need for heating in winter as temperatures increase.	9	5	Flooding prevents access ie to get to work due to flooding of roads or building itself, flooding and damage to buildings. Stormwater management. Temporary issue but could be over extended period in some localities	14	
Social	Vulnerable communities	Younger members of the community (e.g. <12)	Younger members of the community	Sea level rise	5	4 - Moderate to High	Children < 12 years are sensitive to extreme events however they are less likely to have existing medical concerns.	9	8	Stormwater management plans are already in place that can assist	11	
Social	Vulnerable communities	Younger members of the community (e.g. <12)	Younger members of the community	Heat wave increase frequency and intensity	5	3 - Moderate	Children < 12 years are sensitive to extreme events however they are less likely to have existing medical concerns. Children sensitive to dehydration.	8	8		10	
Social	Vulnerable communities	Younger members of the community (e.g. <12)	Younger members of the community	Rainfall intensity increase	5	1 - Low	Children < 12 years are sensitive to extreme events however they are less likely to have existing medical concerns.	6	9	There are existing emergency response plans in place	7	