

Climate Change Awareness  
Assessment Tool  
(Draft – example only)

[www.wqms.co.za](http://www.wqms.co.za)

Note: Username/Password needed

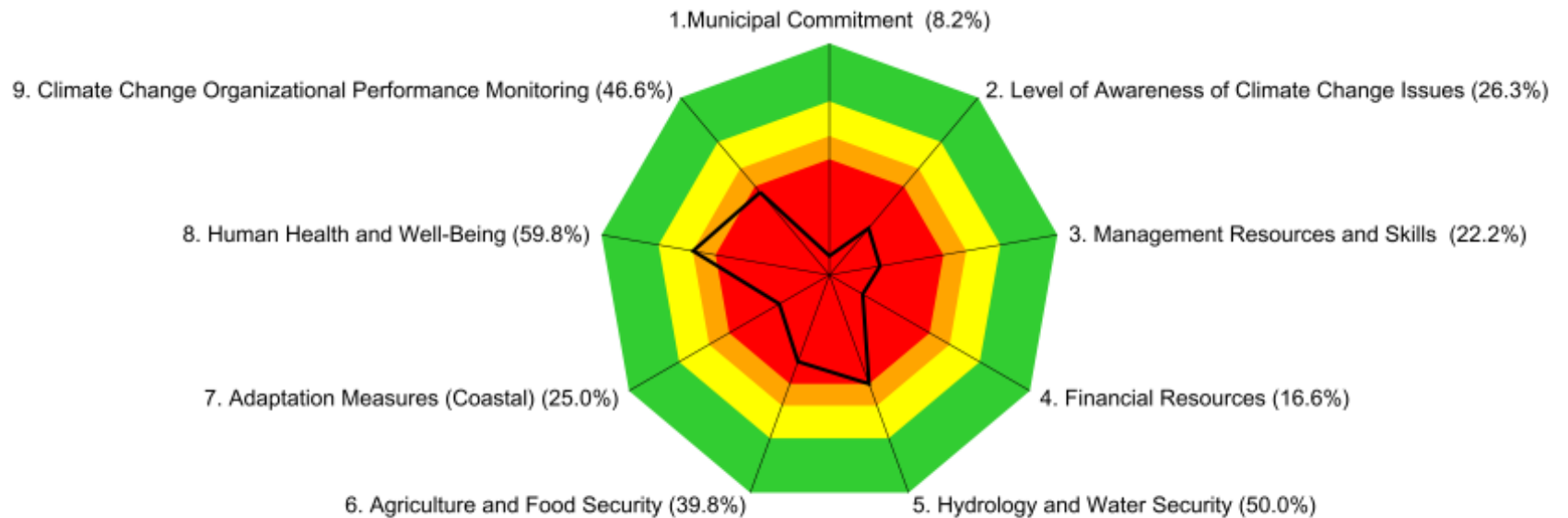
Name Example Coastal City

Submitted By Laurie Barwell

Date 03 January 2013

### Climate Change Adaptation Vulnerability Assessment

■ 0 - 50% (Very High Vulnerability) ■ 50 - 60% (High Vulnerability) ■ 60 - 75% (Moderate Vulnerability) ■ 75 - 100% (Low Vulnerability)



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## SECTION: 1.Municipal Commitment

1. No-regret adaptation priority measures / prioritised adaptation projects incorporated into Municipal Development Plans

No, disagree

2. An authoritative body has been budgeted and staffed with coordinating climate change planning and actions

Present, but advisory only

3. System in place for incorporating best practices into planning

No, disagree

4. Collaboration with other municipalities (info sharing, best practice, benchmarking)

Don't know

## SECTION: 2. Level of Awareness of Climate Change Issues

1. Stakeholders are aware of climate change and its potential implications for society

Some (i.e. > 50%)

2. Stakeholders are aware of potential, available, or on-going climate change response options

Some (i.e. > 50%)

3. Relevant information is reaching key stakeholders in climate-sensitive sectors

No, disagree

4. Institutional mandates to raise awareness of and disseminate information about climate change (risks, impacts, responses, etc.) are in place

In development

5. Adequate funding is available for awareness raising

Partially available

6. Climate change awareness is included within the school curriculum.

No, disagree

## SECTION: 3. Management Resources and Skills

1. All key management posts related to Climate Change within the organisational organogram are appropriately filled

< 50% filled

2. Climate Change related management staff have the correct skills/qualifications and experience (e.g. Certified Professional)

Some (i.e. > 50%)

3. You have sufficient Climate Change management staff (i.e. appropriate number of staff)

< 50% as per organogram

4. Key technical managers have signed Performance Agreements which include Climate Change related targets

None (i.e. 0%)

5. Managers regularly attend appropriate Climate Change skills related development/training

No skills development/training

6. Managers regularly attend appropriate forums/workshops and promote discussion on Climate Change

Partially agree

## SECTION: 4. Financial Resources

1. Funding sources for Climate Change related projects identified

For < 50% of projects

2. External and/or private sector funding obtained for Climate Change projects

No, disagree

3. Funds are available for vulnerability assessments, preparedness actions and measurement of resilience

Partially agree

4. Appropriate utility rates/fees setting ensures Municipal sustainability

In development

5. Cost-Benefit ratio of measures implemented is <1.5

Don't know

## SECTION: 5. Hydrology and Water Security

1. An appropriate Municipal water monitoring and management plan has been developed and implemented
2. The quantity of water available from the resources is sufficient for your current Municipal needs
3. The quantity of water available from the resources is sufficient for your future Municipal needs (i.e. no shortage in 10 years)
4. The source water quality for your area is currently acceptable for its purpose.
5. The trend indicates a deteriorating source water quality.

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## SECTION: 6. Agriculture and Food Security

1. The trend indicates a deteriorating crop yield (e.g. maize)

No, disagree (i.e. yields same/higher)

2. Crop varieties that are more tolerant of heat, drought and water logging from heavy rainfall or flooding selected and planted

Partially agree

3. Structures/processes implemented to protect livestock from temperature extremes (e.g. providing more shade, improving air flow in barns)

No, disagree

4. New techniques/methods employed to ensure adequate farming/cropping systems and associated agricultural conservation

Partially agree

5. The trend indicates a deteriorating yield for fisheries (e.g. decrease in tonnage)

Partially agree



## SECTION: 7. Adaptation Measures (Coastal)

1. Preferred management option implemented

Abstention (e.g. do nothing) (A2) 

2. Preferred soft engineering / restoration option implemented

None 

3. Preferred hard engineering and armouring option implemented

Revetments (e.g. sloping rock) (C1r) 

4. Preferred low / moderate wave energy option implemented

None 


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## SECTION: 8. Human Health and Well-Being


1. The trend indicates increasing poverty (e.g. increasing unemployment rate)

Partially agree 


2. The trend indicates increasing numbers of people with inadequate housing

No, disagree (i.e. same or better) 


3. The trend indicates increasing numbers of people with inadequate access to basic Municipal services (e.g. water, sanitation, electricity)

Partially agree 

4. The trend indicates increasing numbers of people with inadequate education

Partially agree 

5. The trend indicates increasing frequency of disease and/or outbreaks (e.g. malaria)

No, disagree (i.e. same or better) 

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## SECTION: 9. Climate Change Organizational Performance Monitoring

1. Weather forecasting capabilities for key parameters (i.e. temp, rainfall, humidity, wind speed, sea surface water level) enabled

Some (i.e. > 50%)

2. Derived Climate Change related variables (e.g. CO2 conc, O3 conc, cyclone, flood, drought, fire incident trend) determined

< 50%

3. Appropriate plans, policies and procedures to address Disaster Management/emergencies and other issues (safety, public participation, communication, etc.) are developed and implemented

Yes, developed and implemented

4. An organisational performance management system is developed and implemented (i.e. effectively measure, monitor and track Climate Change performance indicators)

In development

5. A functional customer service system is in place to immediately inform customers of Climate Change related impacts (e.g. service interruption, storm warning, contamination of water, etc.)

In place, but not ideal

# Thank you for completing the questionnaire!

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## **SECTION: 1. Municipal Commitment**

1. No-regret adaptation priority measures / prioritised adaptation projects incorporated into Municipal Development Plans  
No, disagree
2. An authoritative body has been budgeted and staffed with coordinating climate change planning and actions  
Present, but advisory only
3. System in place for incorporating best practices into planning  
No, disagree
4. Collaboration with other municipalities (info sharing, best practice, benchmarking)  
Don't know

## **SECTION: 2. Level of Awareness of Climate Change Issues**

1. Stakeholders are aware of climate change and its potential implications for society  
Some (i.e. > 50%)
2. Stakeholders are aware of potential, available, or on-going climate change response options  
Some (i.e. > 50%)
3. Relevant information is reaching key stakeholders in climate-sensitive sectors  
No, disagree
4. Institutional mandates to raise awareness of and disseminate information about climate change (risks, impacts, responses, etc.) are in place  
In development
5. Adequate funding is available for awareness raising  
Partially available
6. Climate change awareness is included within the school curriculum.  
No, disagree

## **SECTION: 3. Management Resources and Skills**

1. All key management posts related to Climate Change within the organisational organogram are appropriately filled  
< 50% filled
2. Climate Change related management staff have the correct skills/qualifications and experience (e.g. Certified Professional)  
Some (i.e. > 50%)
3. You have sufficient Climate Change management staff (i.e. appropriate number of staff)  
< 50% as per organogram
4. Key technical managers have signed Performance Agreements which include Climate Change related targets  
None (i.e. 0%)
5. Managers regularly attend appropriate Climate Change skills related development/training  
No skills development/training
6. Managers regularly attend appropriate forums/workshops and promote discussion on Climate Change  
Partially agree

## **SECTION: 4. Financial Resources**

1. Funding sources for Climate Change related projects identified  
For < 50% of projects
2. External and/or private sector funding obtained for Climate Change projects  
No, disagree
3. Funds are available for vulnerability assessments, preparedness actions and measurement of resilience  
Partially agree
4. Appropriate utility rates/fees setting ensures Municipal sustainability  
In development
5. Cost-Benefit ratio of measures implemented is <1.5  
Don't know

## **SECTION: 5. Hydrology and Water Security**

1. An appropriate Municipal water monitoring and management plan has been developed and implemented  
In development
2. The quantity of water available from the resources is sufficient for your current Municipal needs  
No shortage (i.e. sufficient water)
3. The quantity of water available from the resources is sufficient for your future Municipal needs (i.e. no shortage in 10 years)  
1 - 10% shortage
4. The source water quality for your area is currently acceptable for its purpose.  
Agree somewhat (i.e. >50% of sources acceptable)
5. The trend indicates a deteriorating source water quality.  
Mostly agree (i.e. >75% of sources deteriorating)

## **SECTION: 6. Agriculture and Food Security**

1. The trend indicates a deteriorating crop yield (e.g. maize)  
No, disagree (i.e. yields same/higher)
2. Crop varieties that are more tolerant of heat, drought and water logging from heavy rainfall or flooding selected and planted  
Partially agree
3. Structures/processes implemented to protect livestock from temperature extremes (e.g. providing more shade, improving air flow in barns)  
No, disagree
4. New techniques/methods employed to ensure adequate farming/cropping systems and associated agricultural conservation  
Partially agree
5. The trend indicates a deteriorating yield for fisheries (e.g. decrease in tonnage)  
Partially agree

## **SECTION: 7. Adaptation Measures (Coastal)**

1. Preferred management option implemented  
Abstention (e.g. do nothing) (A2)
2. Preferred soft engineering / restoration option implemented  
None
3. Preferred hard engineering and armouring option implemented  
Revetments (e.g. sloping rock) (C1r)
4. Preferred low / moderate wave energy option implemented  
None

## **SECTION: 8. Human Health and Well-Being**

1. The trend indicates increasing poverty (e.g. increasing unemployment rate)  
Partially agree
2. The trend indicates increasing numbers of people with inadequate housing  
No, disagree (i.e. same or better)
3. The trend indicates increasing numbers of people with inadequate access to basic Municipal services (e.g. water, sanitation, electricity)  
Partially agree
4. The trend indicates increasing numbers of people with inadequate education  
Partially agree
5. The trend indicates increasing frequency of disease and/or outbreaks (e.g. malaria)  
No, disagree (i.e. same or better)



## **SECTION: 8. Human Health and Well-Being**

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Partially agree
2. The trend indicates increasing numbers of people with inadequate housing  
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3. The trend indicates increasing numbers of people with inadequate access to basic Municipal services (e.g. water, sanitation, electricity)  
Partially agree
4. The trend indicates increasing numbers of people with inadequate education  
Partially agree
5. The trend indicates increasing frequency of disease and/or outbreaks (e.g. malaria)  
No, disagree (i.e. same or better)

## **SECTION: 9. Climate Change Organizational Performance Monitoring**

1. Weather forecasting capabilities for key parameters (i.e. temp, rainfall, humidity, wind speed, sea surface water level) enabled  
Some (i.e. > 50%)
2. Derived Climate Change related variables (e.g. CO2 conc, O3 conc, cyclone, flood, drought, fire incident trend) determined  
< 50%
3. Appropriate plans, policies and procedures to address Disaster Management/emergencies and other issues (safety, public participation, communication, etc.) are developed and implemented  
Yes, developed and implemented
4. An organisational performance management system is developed and implemented (i.e. effectively measure, monitor and track Climate Change performance indicators)  
In development
5. A functional customer service system is in place to immediately inform customers of Climate Change related impacts (e.g. service interruption, storm warning, contamination of water, etc.)  
In place, but not ideal