Sustainable Water Usage
Brisbane Australia

Mark Pascoe – Professor of Practice, International WaterCentre, Griffith University

2020 Taipei International Water Environment Forum
“Australia the land of drought and flooding rain”

Wivenhoe Dam
2007 and 2011
Sustainable Cities = Water-sensitive Cities

Drivers

- Population Growth
- Sanitation/Public health
- Population Growth & Development
- Social Amenity & Ecosystem Health
- ‘Limits’ to Growth
- ‘Intergenerational equity & resilience to climate change

Water Supply City
- Supply Hydraulics

Sewered City
- Separate Sewerage Schemed

Drained City
- Drainage/Flood Protection

Water City
- Point source & diffuse source pollution management

Waterway City
- Diverse, ‘fit-for-purpose’ structures, promotion of conservation & link to waterway protection

Water Cycle City
- Adaptive & multi-functional infrastructures & landscapes – reinforcing water sensitive behaviours

Management Responses

Dr. Rebekah Brown

National Urban Water Governance Program
MONASH University
Challenge: *Policy and Practices for transition phases occur at different times*
Western Corridor Scheme

- The reaction....
TARGET 170
AND HIGH LEVEL RESTRICTIONS START 31 JULY
READ MORE

THANK YOU
FOR THE BEST YEAR ON RECORD

We're now at Target 170

Dam levels have risen above 40% and high level restrictions and Target 170 now apply. Residents can use a little more water, but only if they need to.

Read more about high level restrictions.

This site still contains useful water saving tips for conserving water inside the home. Our outdoor pages contain updated information which now applies under Target 170.

Latest News

SEP 18
Fire weather bumps up用水

SEP 17
World's best in Water

SEP 11
Residents rally and drive down water consumption

How to read your water meter

We all need to take responsibility for how much water we use each day.

A good starting point is to find out how much you use at the moment — read your water meter or read your water advice notice from your council.

Three steps to read your water meter

More media releases
Securing our water, together
Read more about the Queensland Water Commission

Level 5 fact sheet in 14 languages
A useful summary of Level 5 water restrictions is now available in our fact sheet which has been translated into 14 non-English languages. Click here for more information.

Latest News
28 Aug 2007  Water Carriers Restriction
27 Aug 2007  Recycled water starts pumping to industry: Bealtie
24 Aug 2007  Water use hits new low
24 Aug 2007  Rain finally falls on dams

Read more from our Media centre ...
Today - 2020

WATER GRID STORAGE CAPACITY
Capacity 60.0%
Change -0.3% last 7 days

CATCHMENT AVERAGE RAINFALL
Rainfall 11.1MM

AVERAGE DAILY USAGE
Avg. Person 170L
Change +2L last 7 days

DAM LEVELS as at 4:10am, 17 September 2020
Profile Question:

How do you water your lawn?

Why are you asking me this question?

Water Consumption:

Water Usage - Litres

Friday: 28 August 2020 - Wednesday: 16 September 2020

Average Usage

Report Type: Water Usage

Comparison: Similar Properties

Period: Daily

From: 28/08/2020

To: 16/09/2020
**myh2o Detailed Property View**

**Property Information:**

**22 Vaucluse Crescent**
EAST MACKAY 4740
Assessment: 56599

**Water Meters:**

13W101206

**Metrics:**

**7-Day Average Consumption:**

<table>
<thead>
<tr>
<th>You:</th>
<th>East Mackay:</th>
</tr>
</thead>
<tbody>
<tr>
<td>239 L per day</td>
<td>749 L per day</td>
</tr>
</tbody>
</table>

**Profile Question:**

*How do you water your lawn?*

*Why are you asking me this question?*

**Water Consumption:**

<table>
<thead>
<tr>
<th>Water Usage - Litres</th>
<th>1000</th>
<th>800</th>
<th>600</th>
<th>400</th>
<th>200</th>
<th>0</th>
</tr>
</thead>
</table>

*Friday: 28 August 2020 - Wednesday: 16 September 2020*
Long-term water balance 2050 – (medium series population, no climate change)

New Planned Supplies 25%

Existing Supply 45%

Existing dams and weirs - 42%

Existing groundwater - 3%

Planned dams and weirs - 20%

Planned desalination - 5%

Other new sources including purified recycled water - 11%

New Sources Required 11%

Demand Management 19%

Recycled water (power generation, industrial, residential toilet flushing and outdoor use) - 6%

Rainwater tanks and stormwater harvesting - 4%

Network efficiency - 2%

Water use efficiency measures (such as low flow shower heads) - 7%
**Current capital city water strategies**

**Planned additional sources of water to 2030**

**Water conservation**

**Surface Sources**

**Groundwater**

**Recycle / Reuse**

**Desalination (capacity)**

**Stormwater and Rainwater**

Total 1,600 GL/year
Chart 8: Average annual water balances from households (Brisbane, Sydney, Melbourne, Perth)

- Reticulated water supply
- Wastewater
- Stormwater

City:
- Brisbane
- Sydney
- Melbourne
- Perth

Water balance (kL/h/yr)
Luggage Point AWTP
Microfiltration
Reverse Osmosis
Desalination Plant – RO Membranes