The Weather Web

Cool Gardens Using Less Water







Darwin - Growing





Darwin River Dam – not growing



Key Facts:

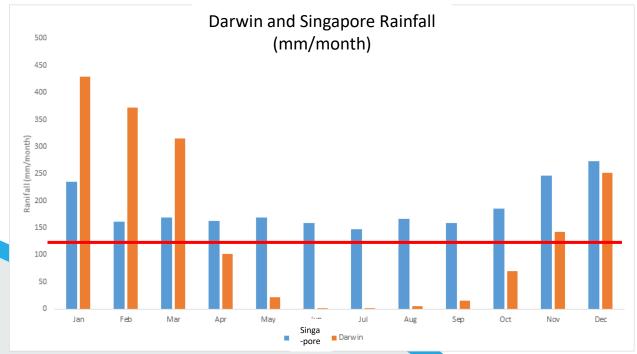
Darwin has ≈ 43GL/yr of water

 Use is generally around 43GL ≈ 1,000L/p/d



Singapore?

• Darwin is Wet/Dry tropics 1.7m of rain then 7 months of drought

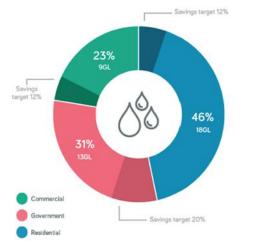




Living Water Smart – last 5 years

Darwin Region

Annual Darwin Water Use:





Government Strategies









Commercial Strategies









Metering



Residential Strategies



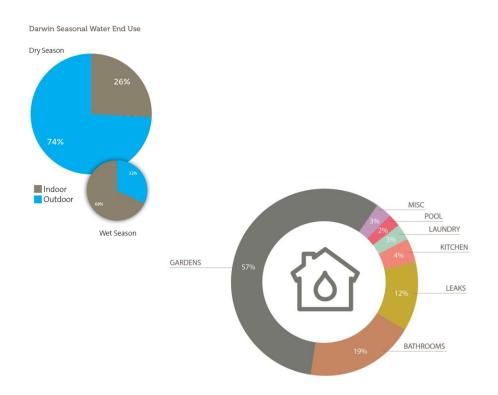






Darwin region per capita water use





Dry season irrigation in Darwin ≈ 100 million litres every day...

...Which is a rugby pitch covered in 14m of water...

...Or four 33 floor Evolution buildings each week.





Darwin Region

What about across a year?

Over 20 billion litres

- Enough water to irrigate:
- 1,300 hectares
- Or 100m² per person
- CBD is 265 hectares





How does water fit in to a cooler city?



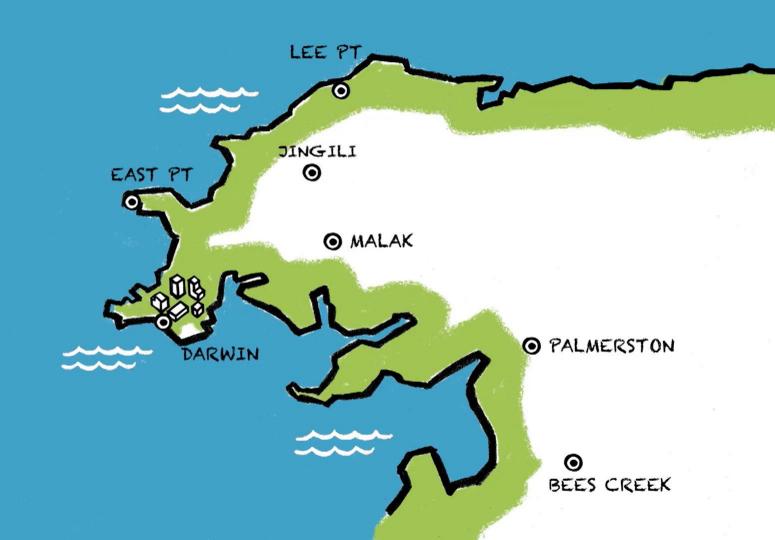
Gardens are cooling

But they need water

What can we do?.....

Get Smarter





How was the Weather Web created?

LIVING WATER SMART

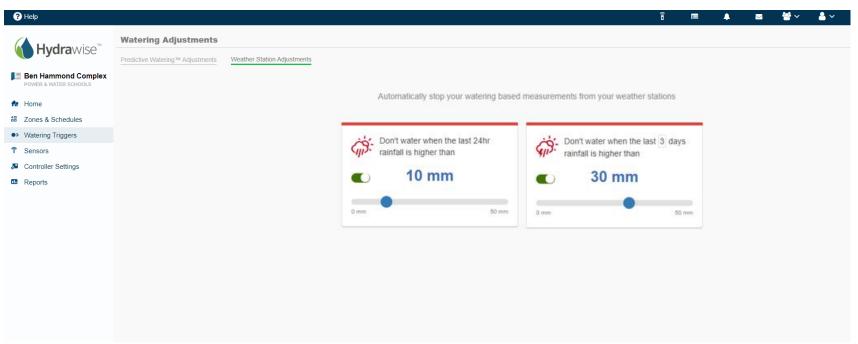
- Long partnership with Dept. of Education
- Weather stations at over 30 schools
 smart irrigation controller too
- Efficient irrigation schedules and watering triggers





Green spaces smart irrigation triggers





Weather Web – 4 key components



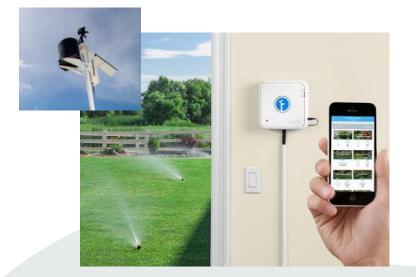
- 1. School irrigation water saving
- 2. School based education
- 3. Garden watering education
- 4. Promote smart irrigation controllers

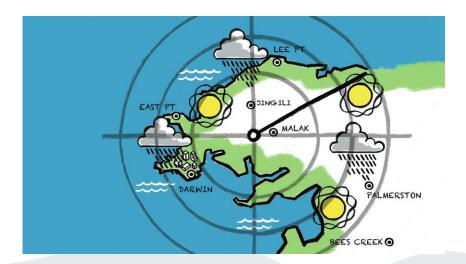
For all of the Darwin region

How does the Weather Web work with smart irrigation?

LIVING WATER SMART

- 1. Real-time weather data captured
- 2. Sent to internet sites: livingwatersmart.com.au/weatherweb, wunderground, weather channel, etc.
- 3. Smart controllers react to internet data



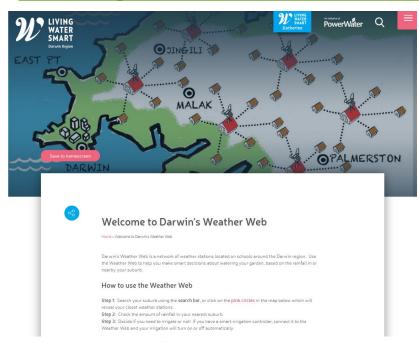


How do you access it?

LIVING WATER SMART

Darwin Region

www.livingwatersmart.com.au/weatherweb



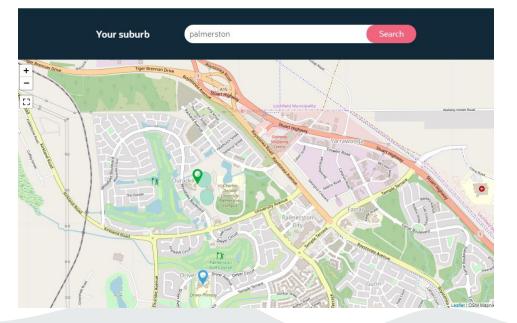




Your suburb has had less than 30 mm of rain in the last week and your plants may still need a drink



Your suburb has had more than 30 mm of rain in the last week and you can turn off your irrigation for a couple of days



Educational resources – Next Gen







In Darwin, the weather and our rainfall affects every aspect of our lives - from the way we dress, to the sports we play, and importantly the amount of water we use on irrigation.

Living Water Smart, an initiative of Power and Water, have worked with Darwin schools to create the Weather Web. The Weather Web is a network of forty weather stations located on school rooftops that allow schools, businesses and residents to make amart decisions about watering their garden, based on local rainfall in their suburb.

Your challenge is to navigate the Weather Web to locate all the information for the treasure hunt below.

Access the Weather Web at livingwatersmart.com.au/weatherweb

You can use the search bar or the map to navigate. Remember, if your suburb has had more than 30mm of rain in the last week, you can turn off your irrigation for a couple of days!



can be captured and supplied in the long term.



How much water does my garden need?



Year Level: 4, 5, 6

Students will conduct an experiment to test how long we should water our gardens before using the findings to influence the broader school community.

- Learn about the optimal amounts of water required for lawns and gardens.
- · Conduct an experiment to test the watering time for various sprinklers.
- . Create some key water use and water efficiency messages for the school community.
- Develop some creative posters to share key use messages with the school community.

PowerWater

In Darwin we currently use more water thar can be captured and supplied in the long ter



LIVING WATER SMART to our school weather station



Year Level: 4.5.6

in short:

Students will explore the importance of predicting and monitoring the weather and investigate all
the information they can use from the new school weather station.

- Learn about the role of a meteorologist. Learn about the importance of water in Darwin.
- Investigate the features of their school weather station and explore the information.



In Darwin we currently use more water than can be captured and supplied in the long term.

In Darwin we currently use more water than

Green Space – more of this









Less of this





Sustainable Wet Dry cool city

- Water efficiency is important
- Weather Web can be used by residents, government, business – everyone
- Gardens and green spaces are great but we need to use water smarter – status quo shift in water using habits
- Behaviour helps and technology helps



Questions?

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