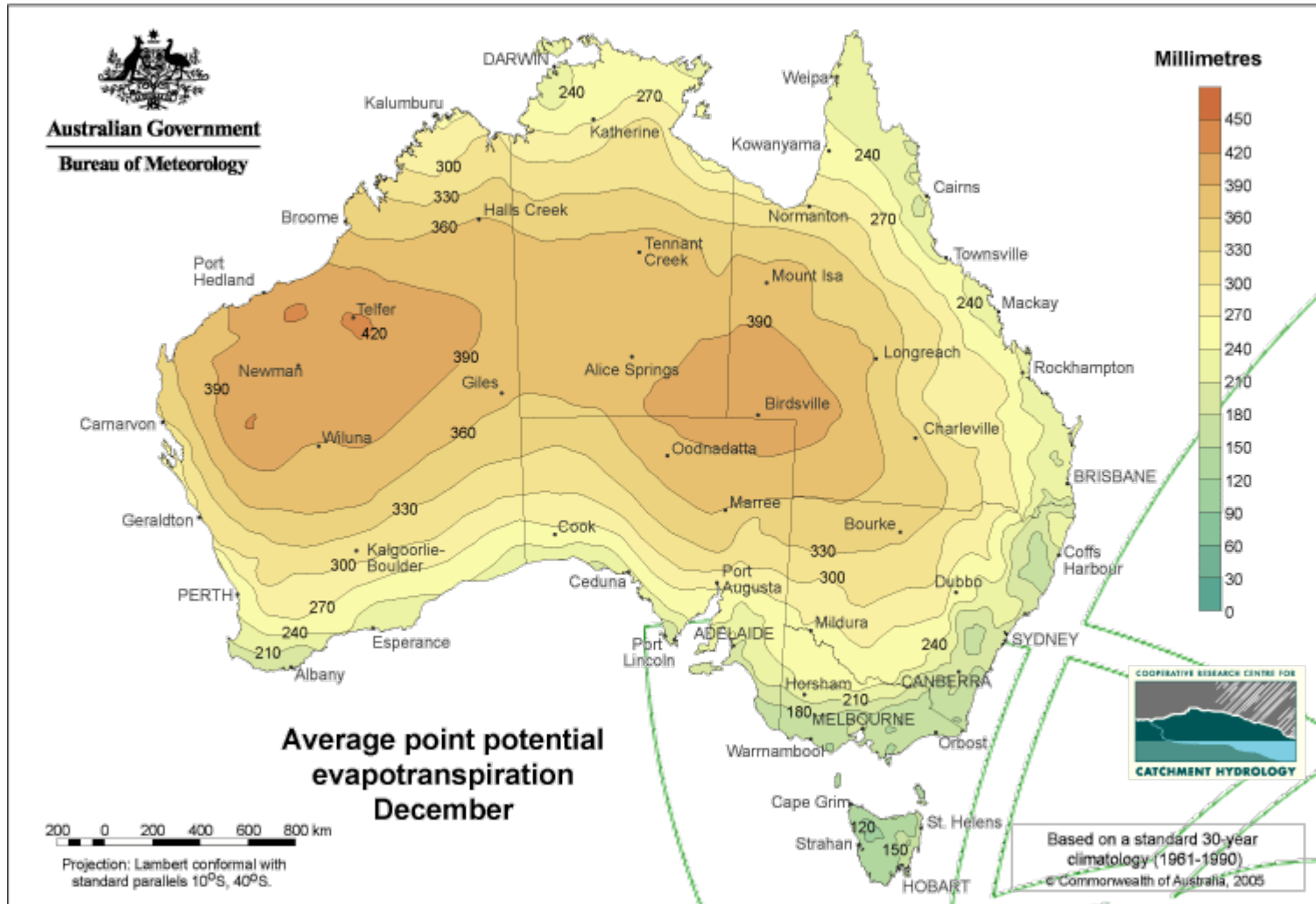




## Do you use Moisture Monitoring Tools?

- Why it is easier to use Moisture Monitoring Tools?
- How deep is your root system?
- Moisture Monitoring Tools & Crop Stage.

# BOM- Point Potential Data Summer



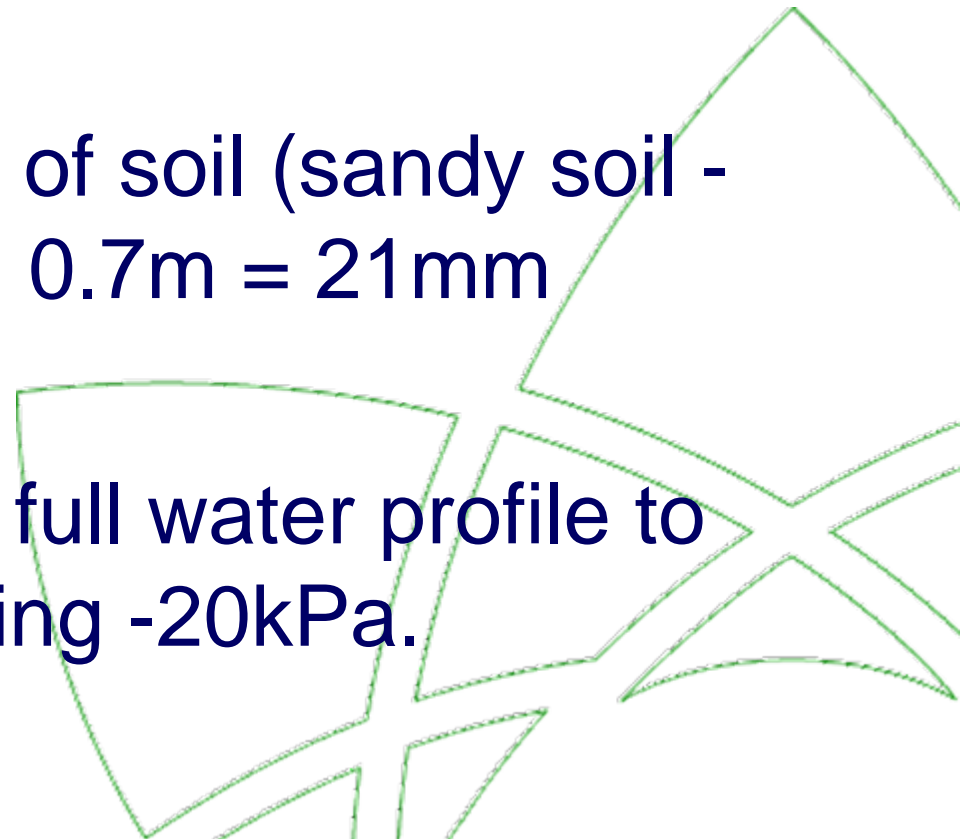
# FAO 56 Crop Coefficient

- 31 days in December
- **240** ÷ 31 = 7.74 mm/day
- 7.74 x **0.8** = 6.19 mm/day
  
- 140L/hr sprinkler (3.5m throw, 38.5m<sup>2</sup> )  
= 3.63 mm/hr.
- 6.19 ÷ 3.63 = 1.7 hrs / day.

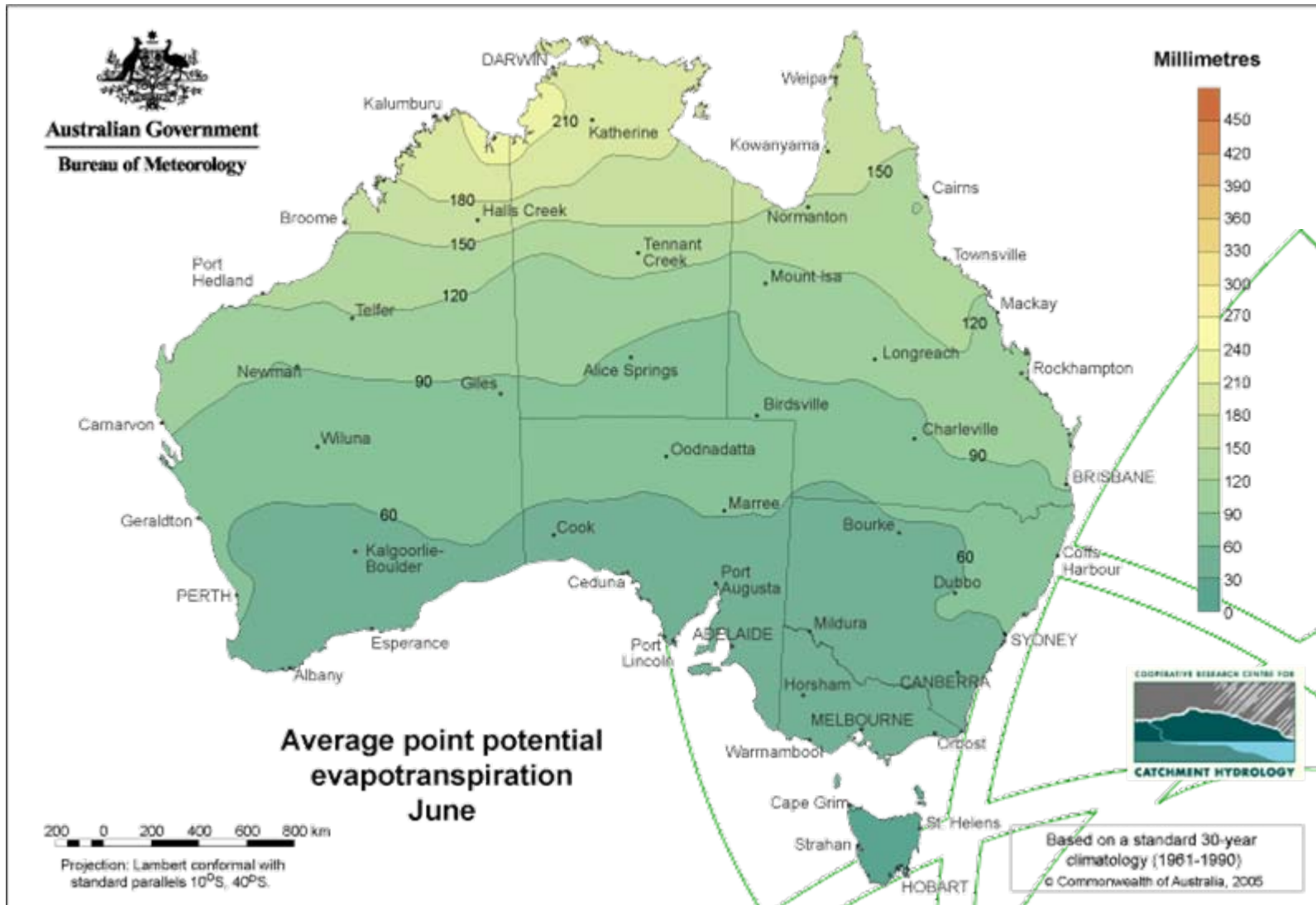


# How much and how often to irrigate?

- 1.7 hrs / day
- 1hr 40mins / day.
- 30mm deficit/meter of soil (sandy soil - 20kpa) Root depth 0.7m = 21mm
- $21 \div 6.19 =$
- 3.39 days between full water profile to crop stress exceeding -20kPa.

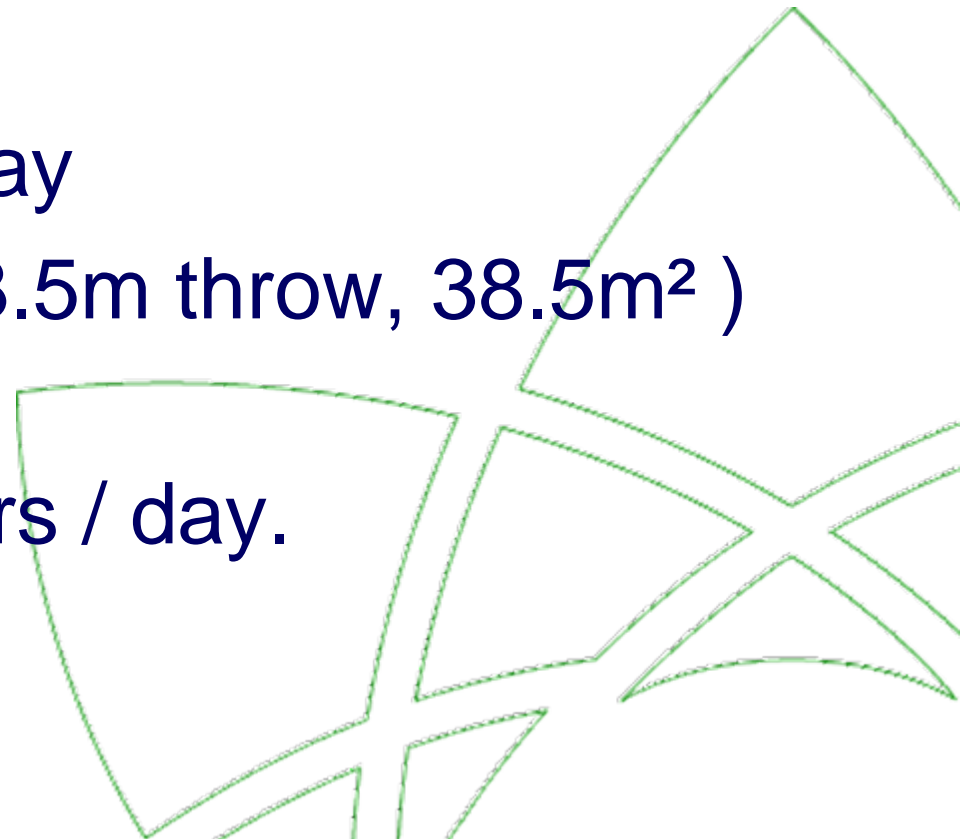


# BOM- Point Potential Data



# FAO 56 Crop Coefficient

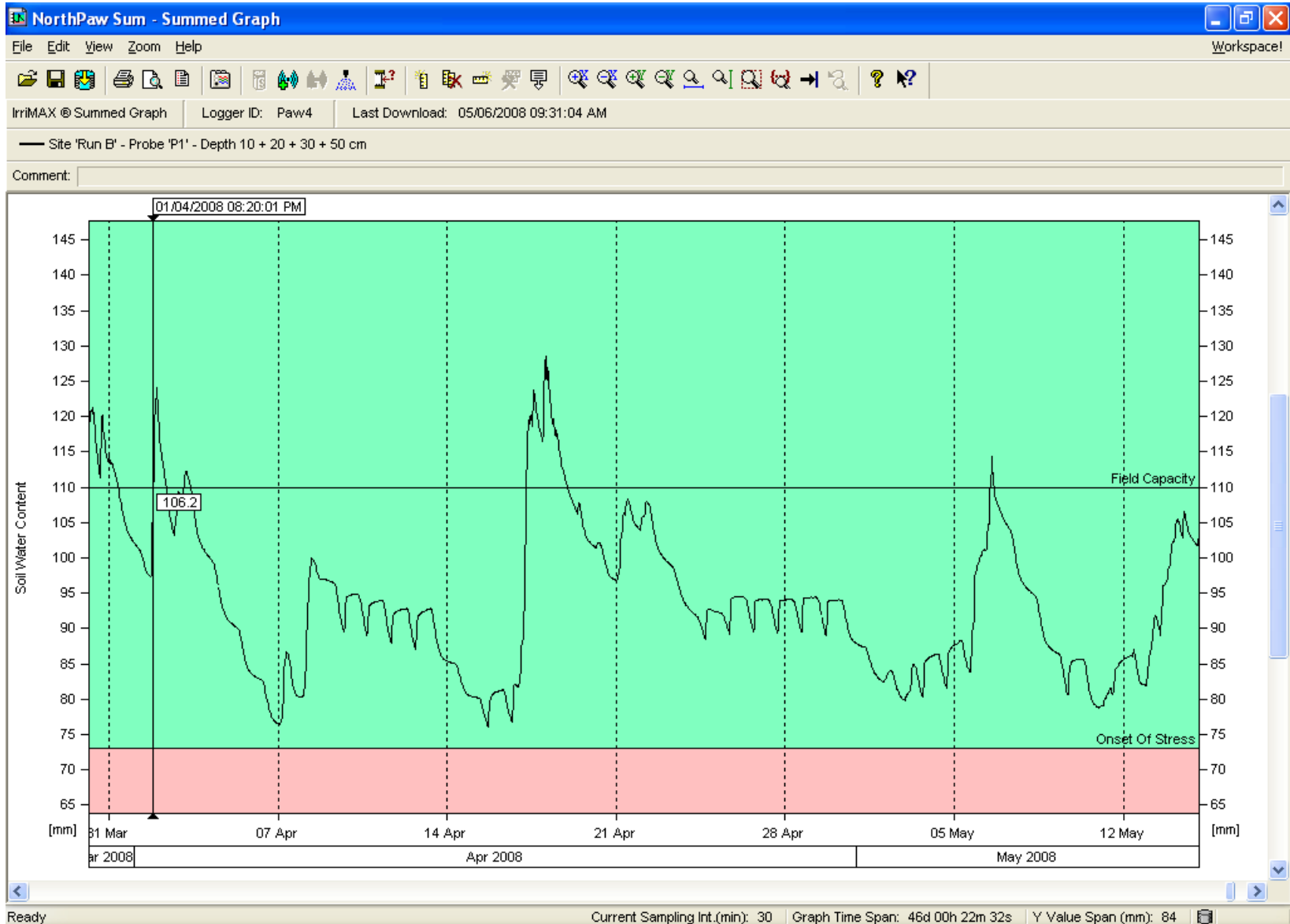
- 30 days in June
- **120** ÷ 30 = 4 mm/day
- 4 x **0.8** = 3.2 mm/day
- 140L/hr sprinkler (3.5m throw, 38.5m<sup>2</sup> )  
= 3.63 mm/hr.
- 3.2 ÷ 3.63 = 0.88 hrs / day.



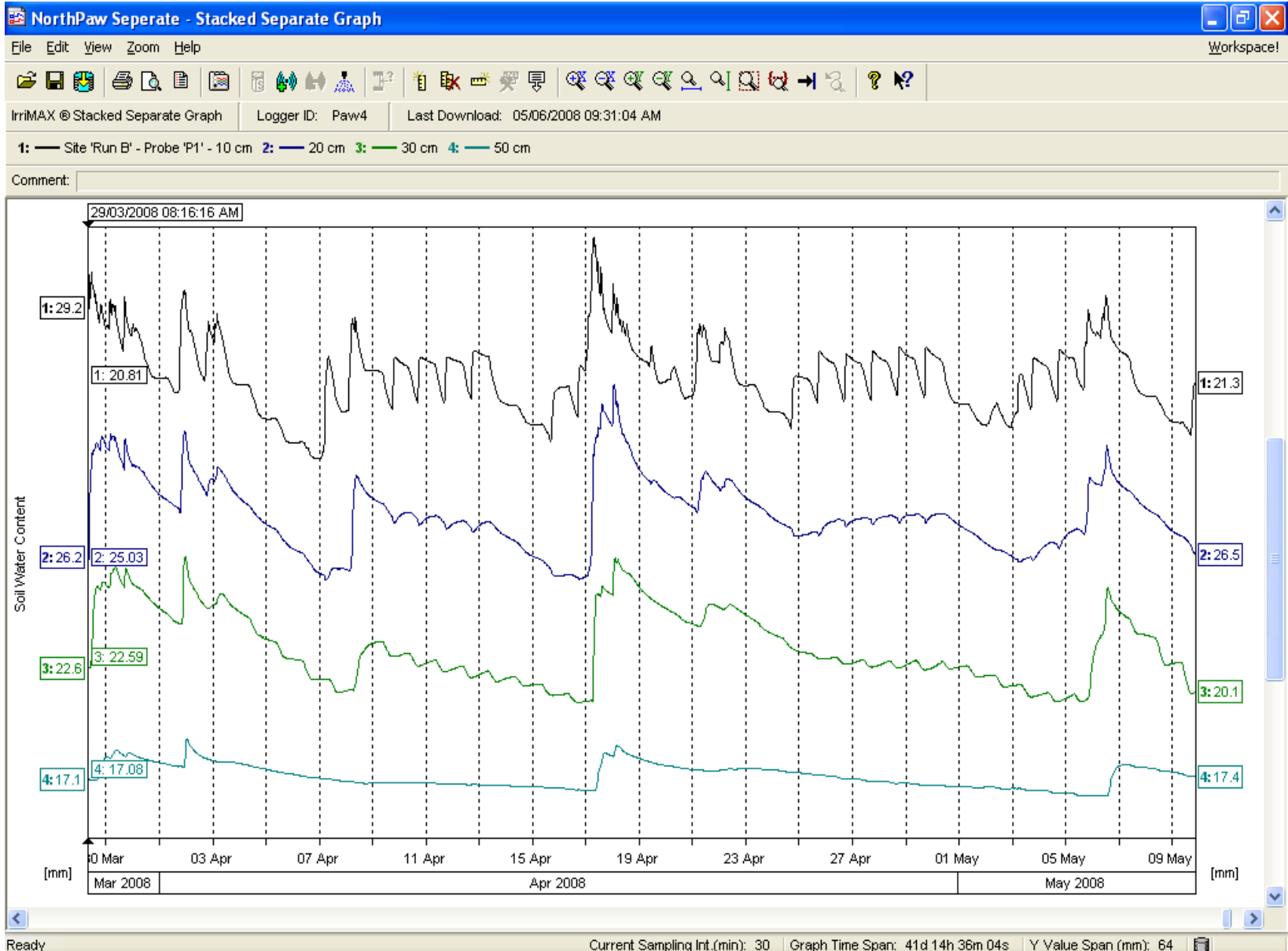
# FAO 56 Crop Coefficient

- 0.88 hrs / day =
- 50mins / day
- 30mm deficit/meter of soil (sandy soil - 20kpa) Root depth 0.7m = 21mm
- $21 \div 3.2 = 6.56$  days
- 6.56 days between full water profile to crop stress exceeding -20kPa.

# How deep is your root system?

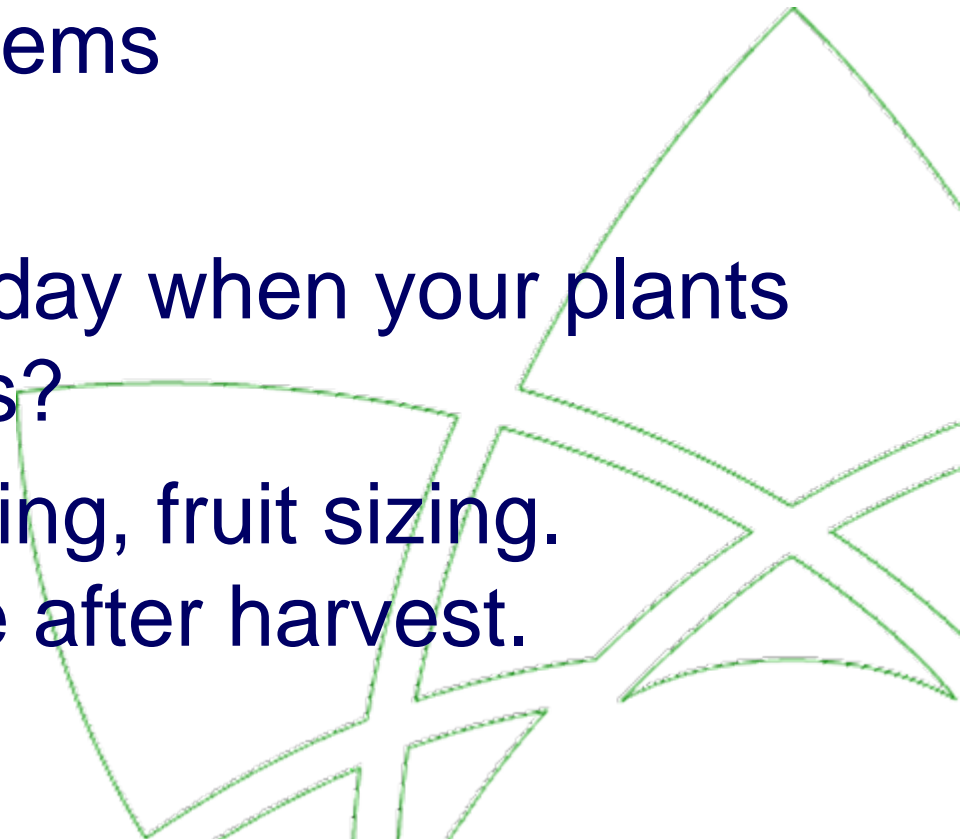


# How deep is your root system?



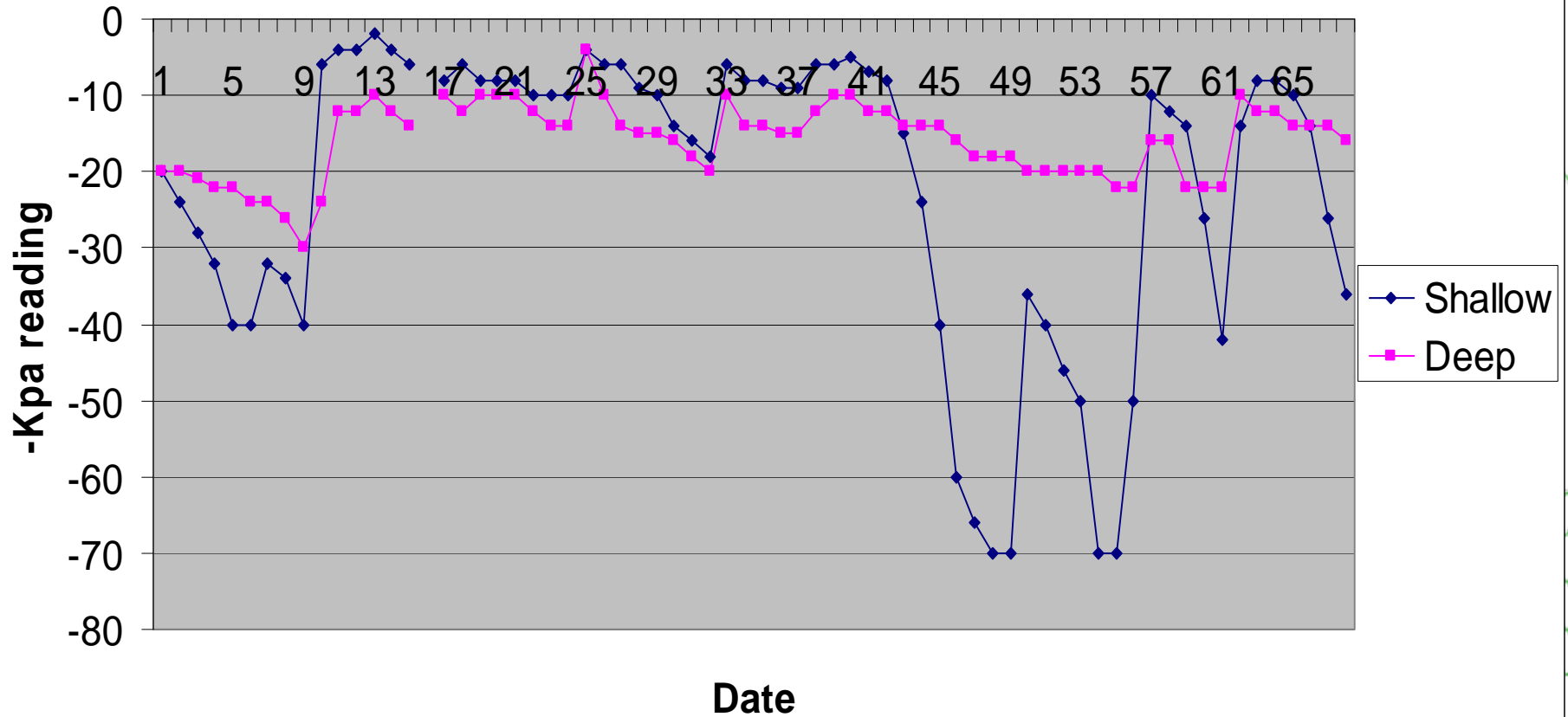
# As growers you know:

- Your Soils
- Your Crops
- Your Irrigation Systems
  
- Can you tell to the day when your plants change crop stages?
- Flowering, fruit setting, fruit sizing.  
Reduced water use after harvest.



# Crop Stage

## Tensiometer Readings



# Handy websites

- <http://www.bom.gov.au/climate/averages/climatology/evapotrans/et.shtml>
- <http://www.seq.irrigationfutures.org.au/news.asp?catID=39>
- <http://www.growcom.com.au/home/inner.asp?pageID=50>



## It's simple but effective.

- Do you change the oil in your tractor?
  - Do you check your sprinklers in paddock?
  - Do you service your pump?
  - At the start of the season install your moisture monitoring tools and look at them regularly!!!!.
- 