



# Where did all that water go?

## Evapotranspiration and how to track it on the Bureau of Meteorology's website

### ▶ *What is Evapotranspiration?*

Evapotranspiration describes the biophysical processes which move water from crops, pastures and forests into the air. It is the combination of plant transpiration and evaporation.

The amount of water that is moved depends on the types of plants and soils as well as humidity, wind and temperature.

### ▶ *What is the Bureau's Evapotranspiration service?*

The Bureau produces daily evapotranspiration records and publishes these on its website to help irrigators manage the available water for their crop.

The records are produced to an international standard - called reference evapotranspiration - using observations from satellites and the Bureau's automatic weather stations.

### ▶ *Soil and land use*

The reference evapotranspiration is based on a theoretical crop standard. Irrigation managers will need to make adjustments for vegetation type and soil conditions when considering specific land uses.

### ▶ *Daily Evapotranspiration Maps and Tables*

The records are published daily. You can mouse-over individual locations (dots) on the map to see daily values or click on a location to see monthly values. To view daily values in table format for the whole state or territory you select the relevant tab above the maps.

### ▶ *Where can I find it?*

From the Bureau's home page, go to the **Water and the Land** pages and click on **Evapotranspiration**. Or directly by the following link: [www.bom.gov.au/watl/eto](http://www.bom.gov.au/watl/eto)





- Agriculture Services**
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- Humidity
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- Our Weather & Climate

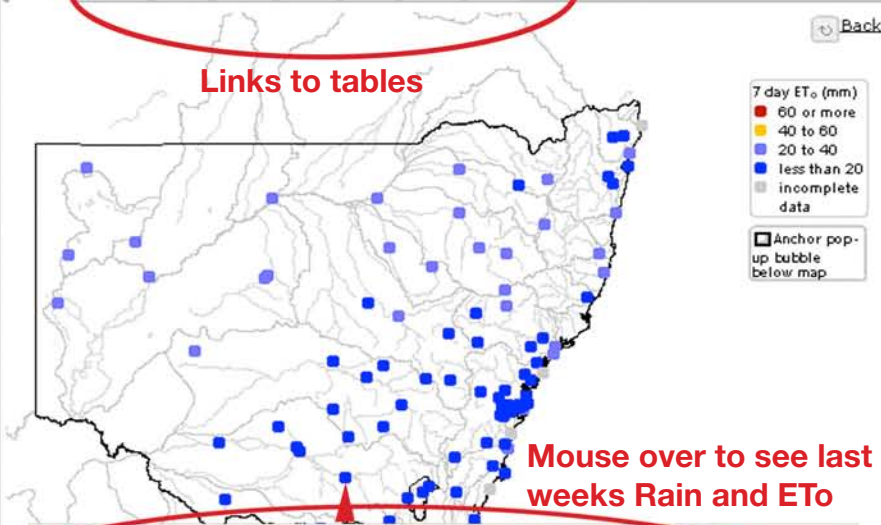
Select "Agriculture" or "Water and the Land" links from the home page then "Evapotranspiration"

## Recent Evapotranspiration

About evapotranspiration

These maps and tables provide daily reference evapotranspiration (ET<sub>0</sub>) derived from automatic weather station records and satellite measurements. Monthly data is available via the location links in the tables for each state.

Map **NSW** Vic Qld WA SA Tas NT



Links to tables

Mouse over to see last weeks Rain and ETo

### WAGGA WAGGA AMO

	27/04/2010	28/04/2010	29/04/2010	30/04/2010	01/05/2010	02/05/2010	03/05/2010	Total (mm)
ET <sub>0</sub>	1.3	2.2	1.9	1.9	2.2	2.5	3.2	15.2
Rain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net	-1.3	-2.2	-1.9	-1.9	-2.2	-2.5	-3.2	-15.2

Reference evapotranspiration for New South Wales: 7 days to 3/5/2010 inclusive, issued 4/5/2010.  
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Map NSW Vic Qld WA SA Tas NT

### Evapotranspiration Calculations

#### Wagga Wagga Amo - May 2010 daily calculations

Date	Evapotranspiration (mm) 0000 - 2400	Rain (mm) 0900 - 0900	Pan Evaporation (mm) 0900 - 0900	Max Temp	Min Temp	Max Rel Hum (%)	Min Rel Hum (%)	Average 10m Wind Speed (m/sec)	Solar Radiation (MJ/sq m)
27/04/2010	1.3	0.0	2.4	17.2	7.6	90	54	1.85	11.92
28/04/2010	2.2	0.0	1.4	18.7	8.9	95	41	1.86	16.66
29/04/2010	1.9	0.0	3.8	20.3	7.9	93	44	2.18	13.70
30/04/2010	1.9	0.0	1.0	19.8	5.5	99	46	0.72	17.11
01/05/2010	2.2	0.0	1.8	21.6	6.5	99	45	1.44	16.55
02/05/2010	2.5	0.0	2.2	22.3	7.4	97	37	1.78	17.12
03/05/2010	3.2	0.0	2.2	23.2	6.5	95	34	3.11	16.81
Totals:	15.2	0.0	14.8						

#### Monthly Archive

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2009												
2010												

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