

# Delta T for Chemical Spraying

Version 6.7 of PAM introduces a new spraying conditions calculation – Delta T

Delta T is an important indicator for acceptable spraying conditions in the agricultural industry. It is indicative of evaporation rate and droplet lifetime.

## 1.0 Data Entry

### 1.1 Using the “Add Wizard”

The user will select a chemical operation as usual:

**Operation Selection**

Operation: **Chemical Application**

- Crop Monitoring
- Diseases & Pests Monitoring
- Fertiliser Application
- Fodder Production
- Harvest Delivery
- Hay Production
- Irrigation
- Machinery Operation
- Manual Task
- Pasture Monitoring
- Seeding and Planting
- Straw Production
- Sundry Item Consumption
- Weed Counts

Record Type:  Actual  Planned  Recommendation

Date: 11/12/2009 Today

Season: 2009

Associated Activities:  Chemical Application  Machinery Operation  Sundries Consumed  Fertiliser Application

Config...

Then click “Next” and select the required job areas.

In the “Spray Conditions” panel at the top there is now a “DeltaT” column next to the “Wind Speed” column. Delta T is calculated by subtracting the wet bulb temperature from the dry bulb temperature.

As shown here:

**Spray Conditions**

Water Rate: 50 L / Ha Tank Volume: 0 Total Water: 1474 L

Ground Speed: Plant Vigour: Pressure: Band (%): 100 Configuration (%): 100

Growth Stage: Nozzle:

Start Time	Stop Time	Temp	Cloud %	Humidity %	Wind Dir	Wind Speed	DeltaT

**Chemical Applications**

Chemical	Units per Ha	% of Water	Total Units	Total deducted from Inventory	Targets	Batch # and Location	Cost per Unit	Costs per Ha
		N/A						

## *1.2 Using PocketPAM*

The Delta T calculation will also appear on the PocketPAM for PocketPC screen when entering chemical records.

Click on Crop Diary and select the appropriate farm and paddock details along with the activity: chemical records. Enter the Spraying Conditions screen and click on the button for Time and Weather Conditions. Delta T will now be a text box at the bottom of the screen. Continue with the remainder of the activity entry.

Details entered in PocketPAM and synchronised back to your desktop will then be included in reports.

## **2.0 Reporting**

These results can be seen in the reporting of chemical applications.

### *2.1 Reports*

Under the Reports menu for either Cropped Areas or Paddock Areas, select Chemical Application Reports. In Step 1 select “Application Conditions: Grouped by Paddock/Chemical”, then select the other report items in steps 2 to 4 and generate the report. Delta T will now display in the 15<sup>th</sup> column.

Please contact us if you need any further help on Chemical Application data entry in PAM and PocketPAM.