

Import ClearAg Weather Data



Use ClearAg subscription to import:

Hourly historical weather and soil data to an Application

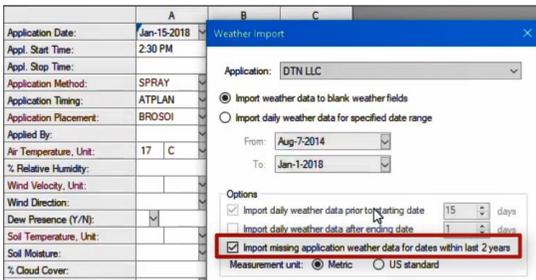
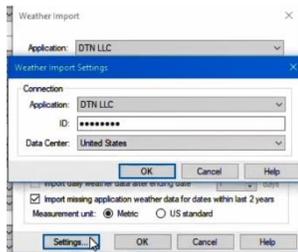
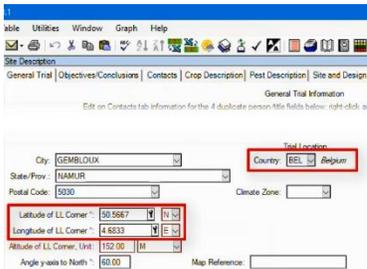
Current weather conditions to today's Application

Daily historical weather and soil data into the Weather table



No.	Date	Weather	Soil	Temp	Humidity	Wind	Dir	Speed	Pressure	Cloud	Light	Moisture	Temp	Soil	Temp	Soil	Temp	Soil	Temp	Soil
1	Jan 20 2018	Clear	17	91	33	SSW	13	1013.2	1013.2	100	1000	83	9	4	8	27	5.6	27	5.6	

Import ClearAg Weather Data 2



	A	B	C
Application Date:	Jan-15-2018	Jan-22-2018	
Appl. Start Time:	2:30 PM	3:00 PM	
Appl. Stop Time:			
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	ATPLAN	ATPLAN	ATPLAN
Application Placement:	BROSOI	BROSOI	BROSOI
Applied By:			
Air Temperature, Unit:	17 C	9 C	
% Relative Humidity:	91	79	
Wind Velocity, Unit:	33 kph	13 kph	
Wind Direction:	SSW	WNW	
Dew Presence (Y/N):			
Soil Temperature, Unit:	4 C	8 C	
Soil Moisture:			
% Cloud Cover:	83	51	
Next Moisture Occurred On:			
Time to Next Moisture, Unit:			
Moisture 1 Week after Appl.:	27 mm	5.6 mm	

In this video, we demonstrate how to import weather and soil conditions into ARM trials. We use a ClearAg subscription to:

- Import hourly historical weather and soil data to an Application,
- Import current weather conditions to today's Application,
- And import daily historical weather and soil data into the Weather table, in one or many trials at a time.

We begin in an ARM trial. In order to retrieve location-specific data, the Country and the GPS coordinates of the trial must be filled in. These fields are found on the General Trial tab of the Site Description.

Now switch to the Application tab, and select the Import Weather toolbar button.

The first time using ClearAg to import weather, click Settings and enter the unique ID from your ClearAg subscription and click OK.

To fill applications that already have a Date and Time specified in the trial, select 'Import missing application weather data for dates within last 2 years' and click OK.

Note that the Air Temperature in Application A was already entered – values already in the trial will not be overwritten when importing data.

Here is a summary of what was successfully imported.

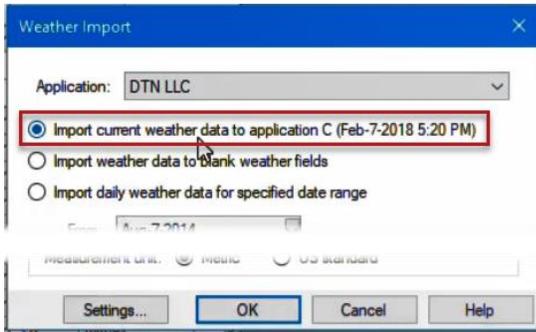
Since there was no date or time entered in Application C, no data was filled for that column.

However, in Applications A and B all of the weather and soil information was filled in based on the GPS coordinates of the trial and the specified date and time of the application.

Import ClearAg Weather Data

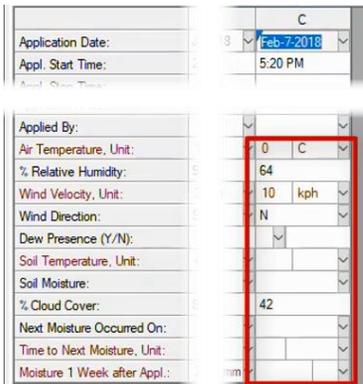


Import current weather conditions to today's application



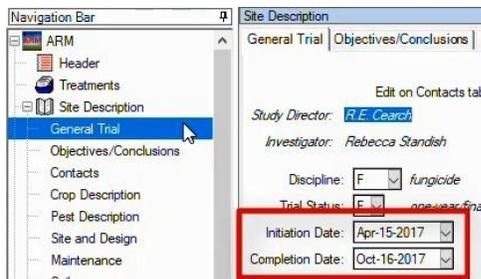
The current weather conditions can also be imported for the day of application. Right-click in an Application that has no Date entered, and select Import Weather Data.

Select 'Import current weather data to application' and click OK.

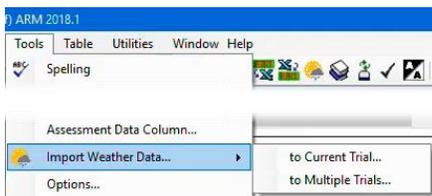


This fills in the most recent weather conditions at the trial location.

Import daily historical weather and soil data into the Weather table

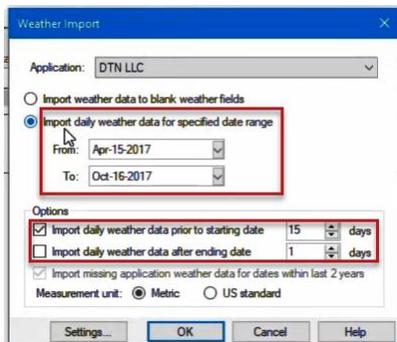


When importing daily weather and soil conditions, ARM uses the Trial Initiation and Completion Dates as the default date range. These fields are on the General Trial tab of the Site Description.



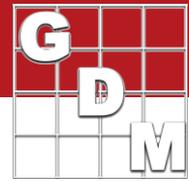
On the Weather tab, select the 'All Fields' view to see all fields in the Weather table.

Then select Tools – Import Weather Data – to Current Trial.



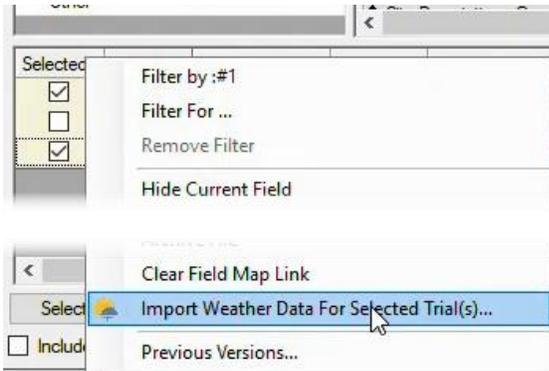
You can adjust the date range by selecting different dates, or specify additional number of days before or after the range to include.

Import ClearAg Weather Data



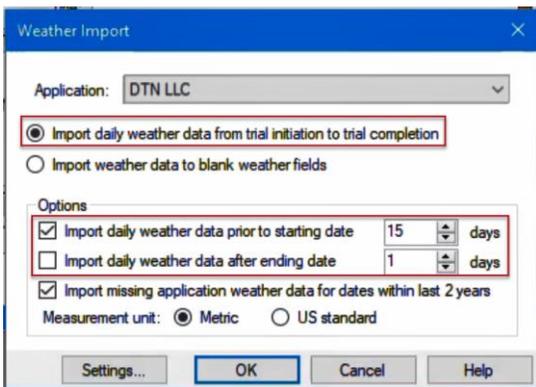
No.	Date	Time	Moisture Total	Unit	Precipitation	Unit	Irrigation	Unit	Type	Description	Interval	Unit	30Y Precipitation	Unit	Min Temp	Max Temp	Wind	Humidity	Soil
181	Sep-27-2017		0.2	mm	0.2	mm			RAIN	rain			1.7	mm	10	21			
195	Oct-11-2017		0	mm	0	mm			RAIN	rain			1.9	mm	12	11			
196	Oct-12-2017		0	mm	0	mm			RAIN	rain			1.8	mm	11	11			
197	Oct-13-2017		0.3	mm	0.3	mm			RAIN	rain			1.8	mm	12	11			
198	Oct-14-2017		0	mm	0	mm			RAIN	rain			1.8	mm	13	12			
199	Oct-15-2017		0.2	mm	0.2	mm			RAIN	rain			1.8	mm	12	12			
200	Oct-16-2017		0.2	mm	0.2	mm			RAIN	rain			1.8	mm	16	22			

A row is added to the Weather table for each day in the defined range, filled with all of the moisture, temperature, wind, sunlight, and soil information.

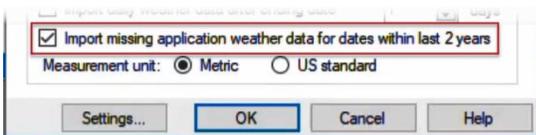


This same importing process can be applied to several trials at once.

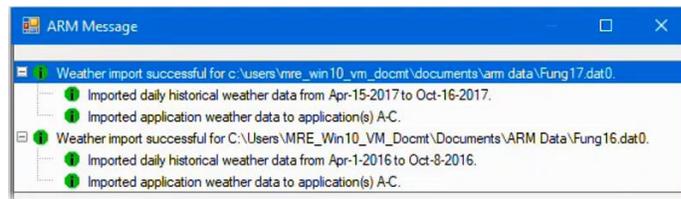
On the study list, select the trials to import weather data into. Right-click on one of them and select 'Import Weather Data for Selected Trials'.



When using this Batch Import, ARM automatically uses the Trial Initiation and Completion dates in each individual trial as the date range for import. You can still specify additional days before or after the range to include in the import.



Selecting this option will also fill in any empty weather fields in the Application tab with hourly weather data, like we demonstrated earlier.



The Messages list the status of the import for each individual trial, and the date range that was used.

The daily weather data and hourly application data are added to each trial according to the dates in the respective trials.