### 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
Image: 1         Image: 2
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Weather Import



	A		B	C				
Application Date:	Jan-15-20	8						
Appl. Start Time:	2:30 PM							
Appl. Stop Time:			Application:	DTN LLC				~
Application Method:	SPRAY	~						
Application Timing:	ATPLAN	~	Import weil	ather data to bla	nk weather fields			
Application Placement:	BROSOI	~	O Import dail	y weather data f	or specified date range			
Applied By:		~	Emm.	Aug.7.2014				
Air Temperature, Unit:	17 C	~	rion.	/log-/-2014	M			
% Relative Humidity:			To:	Jan-1-2018	>			
Wind Velocity, Unit:		~	0.1					
Wind Direction:		~	Options	A	and an international states	15		
Dew Presence (Y/N):	~		Minipor d	ally weather data	phor to ganing date	15	*	days
Soil Temperature, Unit:		~	Import d	ary weather data	after ending date		- 01	davs
Soil Moisture:		~	Import m	issing application	n weather data for date	s within I	ast 2 y	lears
% Cloud Cover:			Measureme	nt unit: 🔘 Me	tric OUS standa	rd		
		10						

		A			В		С		
Application Date:	Jan-	15-2018	~	Jan-2	2-2018	~		~	
Appl. Start Time:	2:30	PM		3:00	PM				
Appl. Stop Time:			1						
Application Method:	SPR	AY	~	SPR	AY	~	SPRAY	~	
Application Timing:	ATP	LAN	~	ATPLAN		~	ATPLAN	~	
Application Placement:	on Placement: BROSOI ~ BROSOI		SOI	~	BROSOI	~			
Applied By:	-		~	_		~		~	
Air Temperature, Unit:	17	С	~	9	С	~		~	
% Relative Humidity:	91			79					
Wind Velocity, Unit:	33	kph	~	13	kph	~		~	
Wind Direction:	SSW	5	~	WNV	v	~		~	
Dew Presence (Y/N):	~	0		~			~		
Soil Temperature, Unit:	4	С	~	8	С	~		~	
Soil Moisture:			~			~		~	
% Cloud Cover:	83			51					
Next Moisture Occurred On:			~			2		~	
Time to Next Moisture, Unit:			~			~		~	
Moisture 1 Week after Appl.:	27	m	m~	5.6	m	n~		~	

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 locationspecific 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

Neather	Import			
Applica	tion: DTN LLC			~
<li>Imposition</li>	ort current weather data to a	application (	C (Feb-7-2018 5	5:20 PM)
	ort weather data to Blank we	eather fields		10
	et daily weather data for en	action date	12000	
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			С	
	Application Date:	. 8	~ (Feb-7-2018	~
	Appl. Start Time:	2	5:20 PM	
	And Ston Times			
	Applied By:		~	~
	Air Temperature, Unit:		0 C	$\sim$
	% Relative Humidity:	5	64	
	Wind Velocity, Unit:	1.1	10 kph	~
	Wind Direction:	5	N	~
	Dew Presence (Y/N):		~	
	Soil Temperature, Unit:		-	$\sim$
	Soil Moisture:		-	$\overline{}$
	the Charles Course		42	

Next Moisture Occurred On: Time to Next Moisture, Unit: Moisture 1 Week after Appl.: 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

Navigation Bar	4	Site Description
ARM	^	General Trial Objectives/Conclusions
Header		1
Treatments		Edit on Contrata tak
Site Description		Edit on Contacts tat
General Trial		Study Director: R.E. Cearch
Objectives/Conclusions		Investigator: Rebecca Standish
Contacts		Discipline: E funcioide
Crop Description		
Pest Description		Inal Status: E Sel one-year/ina
Site and Design		Initiation Date: Apr-15-2017 🗸
Maintenance		Completion Date: Oct-16-2017
Cal		
f) ARM 2018.1		
Tools Table Utilities Wi	indov	v Help
Spelling		🔜 🎬 🥝 🏠 🖌 🔽 🛛
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🙇 Import Weather Data		to Current Trial
Options		to Multiple Trials
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Weather Import		× .
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Application: DTN LLC		~
		therefolds
Import weather data to bian	K We	arrier nerus
Import daily weather data to	or spe	ched date range
From: Apr-15-2017		~
To: Oct-16-2017		~
L	_	
Options		
Import daily weather data	pnor	to starting date 15 🚽 days
Import daily weather data	after	ending date 1 🖶 days
Management missing application	weat	Cher data for dates within last 2 years
Measurement unit: ( Met	лс	O US standard
Settings	OK	Cancel Help
	-	Ten toral

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	Uni	t Im	gation Ur	n	Туре		Type Description	Interval	Unit	30Y Precipitation	Uni		Min Temp	T
181.	Sep-27-2017	>	0.2	mm	0.2	mm	>		Y	RAIN	2	rain		~	1.7	mm	>	10	21
195.	Oct-11-2017	~	0	mm	~ 0	mm	~		>	RAIN	~	rain	-	~	1.9	mm	>	12	1!
196.	Oct-12-2017	~	0	mm	~ 0	mm	~		~	RAIN	~	rain		~	1.8	mm	~	11	11
197.	Oct-13-2017	~	0.3	mm	V 0.3	mm	~		>	RAIN	Y	rain		>	1.8	mm	>	12	1!
	A second s	1000									- 100						- 1444		1
198.	Oct-14-2017	~	0	mm	~ 0	mm	$\sim$		~	RAIN	~	rain		~	1.8	mm	V	13	2
198. 199.	Oct-14-2017 Oct-15-2017	> >	0.2	mm mm	~ 0 ~ 0.2	mm	> >		XX	RAIN	2 2	rain rain		> >	1.8	mm mm	> >	13	2

1 ......

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.

Selected	Filter by :#1
	Remove Filter
	Hide Current Field
۲	Clear Field Map Link
Select 🌽	Import Weather Data For Selected Trial(s)
Include	Previous Versions

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'.

			~
Import daily weather data from trial initiation to trial	completi	on	
) Import weather data to blank weather fields			
Options			
Import daily weather data prior to starting date	15	-	days
	1	-	days
Import daily weather data after ending date		ant 2 ua	ars
Import daily weather data after ending date     Import missing application weather data for date	s within I	asi z ye	-

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.

Import missing a	pplication wea	ather data for dates within I	ast 2 years
Measurement unit:	Metric	O US standard	
Settings	OK	Cancel	Help

	ARM Message			×
	Weather import successful for c:\users\mre_win10_vm_docmt\documents\arm d	ata \ Fung	17.dat0.	
-	Imported daily historical weather data from Apr-15-2017 to Oct-16-2017.			
	Imported application weather data to application(s) A-C.			
Ξ (	Weather import successful for C:\Users\MRE_Win10_VM_Docmt\Documents\A	RM Data	Fung16.da	it 0.
	Imported daily historical weather data from Apr-1-2016 to Oct-8-2016.			
i.	Imported application weather data to application(s) A-C.			

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.