

How to extract weather data from e-RA, the electronic Rothamsted Archive

Guidance for the Public and
Schools

Home

News

Extract Data

Data Extraction Tool

Open Access

Broadbalk

Park Grass

Hoosfield Barley

Alternate Wheat and Fallow

Wilderness Experiments

Exhaustion Land

Woburn Ley Arable

Woburn Farm

Met Data

Other Long Term Experiments

Case studies

Schools

Sample Archive

Insect Survey

North Wyke Farm Platform

Search Bibliography

Reports in eRAdoc

Soil Map

Disclaimer

Data Quality

Credits and Contact

Extract Data

Weather data for the Public and Schools

Welcome to the **Rothamsted Weather Data for the Public and Schools**. This data is available to teachers and students, in the classroom or for projects at home. The data is measured, long-term weather and question sheets for schools.

On the Schools
webpage, click
'Extract Data' button

Tweet

Rothamsted weather data for the public:

A simple set of daily Rothamsted weather data, from 1918 to the current date, is freely available to download. It contains daily rainfall, maximum and minimum temperatures, sun and wind data.

To extract your data, go to the 'Extract Data' button at the top of this page.

Username: **public** Password: **Fest175**

This will give you access to the dataset **publicdaymet**. To select a particular date or range of dates, click the right box next to 'day' then go to 'filter' and 'set' your dates. Use 'Getting Started' and 'Show Help' if you need more help with accessing the data, or contact the [e-RA Curators](#).




Schools weather data: The provision of the schools data arose after discussions with local secondary schools who expressed an interest in using "real local data". It is anticipated the data will be useful in a variety of National Curriculum subjects including geography, science, maths and computing. All the data are freely available, just contact the [e-RA Curators](#) for a password to access the data.

- [Background](#)
- [Description of variables](#)
- [Data Available](#)
- [Question sheets and handouts for schools](#)
- [Long-term weather](#)
- [Website links](#)



You are now in the
'Data Extraction Tool'



e-RA
Rothamsted
Archive

e-RA Data Extraction Tool

Getting Started

Login/Logout

All Datasets

My Datasets

The check-boxes will create new dataset tabs here -- then -- Clicking a dataset tab will display its field details

Hide

Order by dataset name

Show Help

✓	Dataset	Description
<input type="checkbox"/>	BKYE	Broadbalk wheat yields 1844-1925
<input type="checkbox"/>	BKYE	Broadbalk wheat yields 1926-1953
<input type="checkbox"/>	BKYE	Broadbalk wheat yields 1954-1967
<input type="checkbox"/>	BKYIELD_R85	Broadbalk wheat yields 1968-2014
<input type="checkbox"/>	BKBEANS	Broadbalk beans yields 1968-1978
<input type="checkbox"/>	BKMAIZE	Broadbalk maize yields 1997-2013
<input type="checkbox"/>	BKOATS	Broadbalk oats yields 1996-2013
<input type="checkbox"/>	BKPOTATO	Broadbalk potato yields 1968-1996
<input type="checkbox"/>	BKWHNUTRI	Broadbalk wheat crop nutrient data 1968-2011
<input type="checkbox"/>	BKOATNUTRI	Broadbalk oat crop nutrient data 1996-2011
<input type="checkbox"/>	BKBEANNUTRI	Broadbalk beans crop nutrient data 1968-78
<input type="checkbox"/>	BKMAIZNUTRI	Broadbalk maize crop nutrient data 1997-2011
<input type="checkbox"/>	BKPOTSNUTRI	Broadbalk potato crop nutrient data 1968-96
<input type="checkbox"/>	BKWEEDS_FAL	Broadbalk weed surveys 1933-1967
<input type="checkbox"/>	BKWEEDS_ROT	Broadbalk weed surveys 1968-1979
<input type="checkbox"/>	BKWEEDS_SUM	Broadbalk weed surveys summary 1991-2014
<input type="checkbox"/>	BKWEEDS_PLOT	Broadbalk weed surveys by plot 1991-2014
<input type="checkbox"/>	BKDISEASE	Broadbalk disease data 1968-2009
<input type="checkbox"/>	BKGR_QUALITY	Broadbalk Grain Quality for 1974 - 2013
Hoosfield Spring Barley Experiment		

The screenshot shows the e-RA Data Extraction Tool interface. On the left is a navigation menu with links: e-RA Rothamsted, Archive, Getting Started, Login/Logout, All Datasets, and My Datasets. Below the menu is a note about dataset tabs and a 'Hide' button. The main content area is titled 'e-RA Data Extraction Tool' and 'For registered eRA users'. It contains a login form with fields for 'eRA User Id' (containing 'demo') and 'Password' (containing seven dots). A 'Login' button is below the password field. To the right of the login form is a 'Logout' button. Three yellow callout boxes with arrows provide instructions: '1. Type in the username (public)' points to the User Id field, '2. Type in the password (Fest175)' points to the Password field, and '3. Click Login' points to the Login button. At the bottom of the page is the Rothamsted Research logo and the tagline 'where knowledge grows'.

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Archive
Getting Started
Login/Logout
All Datasets
My Datasets

The check-boxes will create new dataset tabs here
— then —
Clicking a dataset tab will display its field details
[Hide](#)

e-RA Data Extraction Tool

For registered eRA users

eRA User Id

Password

>>

Email eRA for information on [registering](#) or to

1. Type in the username (public)

2. Type in the password (Fest175)

3. Click Login

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Password: **jan2016**

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Getting Started


Login/Logout

All Datasets

My Datasets

The check-boxes will create new dataset tabs here
— then —
Clicking a dataset tab will display its field details

Hide


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e-RA Data Extraction Tool

For registered eRA users

Username

Password


Login

Logout

>> public logged in.

Email eRA [to reset your password.](#)

Click
My Datasets



Archive

Getting Started

Login/Logout

All Datasets

My Datasets

The check-boxes
will create new
dataset tabs here

— then —

Clicking a dataset
tab will display
its field details

Hide

Order by dataset name

Show Help

✓	Dataset	Description
	↗ Meteorological Records - click for important met data corrections and updates	
<input type="checkbox"/>	PUBLICDAYMET	Public Rothamsted meteorological records 1918 - Current Date


Click
PUBLICDAYMET



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Archive

Getting Started

Login/Logout


All Datasets

My Datasets


PUBLICDAYMET

The check-boxes will create new dataset tabs here – then – Clicking a dataset tab will display its field details

Hide



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e-RA Data Extraction Tool

Order by dataset name

Show Help

✓	Dataset	Description
<input checked="" type="checkbox"/>	Meteorological Records	<i>click for important met data corrections and updates</i>
<input checked="" type="checkbox"/>	PUBLICDAYMET	Public Rothamsted meteorological records 1918 - Current Date

Click PUBLICDAYMET

7



e-RA Data Extraction Tool

1: Select 2: Filter 3: Retrieve

Order by field name

Show Help

✓	Q	Field Name	Units	+	Description
Check Search Fields					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	DAY			Date
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RAIN	mm		Daily total rainfall
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUNHOURS	hours		Daily hours of sun
<input checked="" type="checkbox"/>	<input type="checkbox"/>	T_MAX	degrees C		Daily maximum air temperature
<input checked="" type="checkbox"/>	<input type="checkbox"/>	T_MIN	degrees C		Daily minimum air temperature
<input checked="" type="checkbox"/>	<input type="checkbox"/>	WDIR	degrees		Wind direction at 09.00 GMT (0-360 degrees)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	WINDSP	km/hr		Wind speed at 09.00 GMT

Click
DAY

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Click
Filter


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e-RA Data Extraction Tool

1: Select 2: Filter 3: Retrieve

Order by field name Show Help

✓	Q	Field Name	Units	+	Description
Check Search Fields					
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DAY			Date
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RAIN	mm		Daily total rainfall
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUNHOURS	hours		Daily hours of sun
<input checked="" type="checkbox"/>	<input type="checkbox"/>	T_MAX	degrees C		Daily maximum air temperature
<input checked="" type="checkbox"/>	<input type="checkbox"/>	T_MIN	degrees C		Daily minimum air temperature
<input checked="" type="checkbox"/>	<input type="checkbox"/>	WDIR	degrees		Wind direction at 09.00 GMT (0-360 degrees)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	WINDSP	km/hr		Wind speed at 09.00 GMT


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set

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Archive

Getting Started

Login/Logout

All Datasets

My Datasets

PUBLICDAYMET


e-RA Data Extraction Tool

1: Select 2: Filter 3: Retrieve

Show Help

	Field Name	Selected Search Values
<input type="button" value="set"/>	DAY	

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Archive

Getting Started

Login/Logout

All Datasets

My Datasets

PUBLICDAYMET

e-RA Data Extraction Tool

1: Select

2: Filter

3: Retrieve

Field Name

Selected Search Values

Show Help

Field Name	Selected Search Values
set DAY	

DAY

Date

range: 01/01/1918 to Current Date

SPECIFY

☐ a value

field value

OR

☐ a range

start-of-range

end-of-range


date format is: DD/MM/YYYY

click to accept the value(s) and copy to the table above

accept


Type in your birth date in format dd/mm/yyyy e.g. 06/03/1966

Alternatively type in a range of dates



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Archive

Getting Started

Login/Logout

All Datasets

My Datasets

PUBLICDAYMET

e-RA Data Extraction Tool

1: Select

2: Filter

3: Retrieve

Field Name

Selected Search Values

Show Help

Field Name	Selected Search Values
set DAY	

DAY

Date

range: 01/01/1918 to Current Date

SPECIFY

☒ a value

field value

06/03/1966 x

OR

☐ a range

start-of-range

end-of-range


date format is: DD/MM/YYYY

click to accept the value(s) and copy to the table above

accept

Your birthdate appears here

Click accept



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Your birth date
appears here

Click
Retrieve

The screenshot shows the e-RA Data Extraction Tool interface. On the left is a navigation menu with links: Archive, Getting Started, Login/Logout, All Datasets, My Datasets, and PUBLICDAYMET. The main header area includes the e-RA Rothamsted logo and the title 'e-RA Data Extraction Tool'. Below the header are three tabs: '1: Select', '2: Filter' (which is highlighted), and '3: Retrieve'. An orange arrow points from the text box 'Your birth date appears here' to the 'value-of: 06/03/1966' entry in the 'Selected Search Values' table. A yellow arrow points from the text box 'Click Retrieve' to the '3: Retrieve' tab. The 'Selected Search Values' table has columns 'Field Name' and 'Selected Search Values'. It contains one row with 'DAY' as the field name and 'value-of: 06/03/1966' as the value. Below this table, there is a section for specifying search criteria. It includes a 'SPECIFY' label, a radio button for 'a value' (which is selected), and a text input field containing '06/03/1966'. There is also an 'OR' option with a radio button for 'a range' and two empty text input fields for 'start-of-range' and 'end-of-range'. To the right of these inputs, it says 'date format is: DD/MM/YYYY' and 'click to accept the value(s) and copy to the table above'. There is an 'accept' button. A 'Show Help' button is located in the top right corner of the main content area. The footer features the Rothamsted Research logo and the tagline 'where knowledge grows'.

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e-RA Data Extraction Tool

1: Select 2: Filter 3: Retrieve

Show Help

Field Name	Selected Search Values
DAY	value-of: 06/03/1966

PUBLICDAYMET

DAY **Date**
range: 01/01/1918 to Current Date


SPECIFY

☒ a value field value date format is: DD/MM/YYYY
06/03/1966

OR

☐ a range start-of-range click to accept the value(s) and copy to the table above
end-of-range accept

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Getting Started

Login/Logout

All Datasets

My Datasets

PUBLICDAYMET



e-RA Data Extraction Tool

1: Select

2: Filter

3: Retrieve

POTENTIAL RISK OF LONG WAIT: some datasets are very large, so splitting your query may be required.

TIME OUT: If your query is extracting a large amount of data, the connection may be timed out before ALL the data has been extracted. Please check that ALL the data you asked for has been extracted. Again, splitting your query may be required.

Specify a sort order for your output rows here.

Your fields

DAY
RAIN
SUNHOURS
T_MAX
T_MIN
WDIR
WINDSP

-->
<--

Your sort order

Dataset Default Sort Order
(Other fields will also be extracted)


DAY
RAIN
SUNHOURS
T_MAX
T_MIN
WDIR
WINDSP

Please read this if you are not a registered user.

The data is available for scientific research, but remains the copyright of the Lawes Agricultural Trust. The data held within e-RA is password-protected. If you are not an employee of Rothamsted Research then access to data held in e-RA is subject to our Data Access Policy. To register please contact the **e-RA Curator** otherwise you can continue browsing dataset fields and previewing their contents -- to decide whether registration would be useful.

Click extract data

extract data



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These are your results
– the weather on
your birth date!

The screenshot shows the e-RA Data Extraction Tool interface. At the top, there's a header with the e-RA Rothamsted Archive logo and the title "e-RA Data Extraction Tool". Below this, a browser window displays the tool's interface. The browser address bar shows "http://www3.rothamsted.ac.uk/ - PUBLICDAYMET - Internet Explorer". The tool has several buttons: "enlarge text", "reduce text", "CSV", and "TABLE". Below these buttons, it says "Data extracted from PUBLICDAYMET". A table displays the following data:

day	rain	sunhours	t_max	t_min	wdir	windsp
	mm	hours	degrees	Cdegrees	Cdegrees	km/hr
06-03-1966	0.0	5.1	12.2	3.3	270	13

To the right of the browser window, there's a text area with the following content:

, so splitting your query may be required.

connection may be timed out before ALL the data has been extracted. Again, splitting your query may be required.

Dataset Default Sort Order
(Other fields will also be extracted)

DAY
RAIN
SUNHOURS
T_MAX
T_MIN
WDIR
WINDSP

the Lawes Agricultural
employee of Rothamsted
policy. To register please
details and previewing their

extract data

100%

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Internet Explorer window showing the e-RA Data Extraction Tool interface.

Address bar: <http://www3.rothamsted.ac.uk/> - PUBLICDAYMET - Internet Explorer

Navigation buttons: enlarge text, reduce text, CSV, TABLE

Data extracted from PUBLICDAYMET

day	rain mm	sunhours hours	t_max degrees	t_min degrees	wdir degrees	windsp km/hr
06-03-1966	0.0	5.1	12.2	3.3	270	13

100%

, so splitting your query may be required.

connection may be timed out before ALL the data has been extracted. Again, splitting your query may be required.

Dataset Default Sort Order
(Other fields will also be extracted)

DAY
RAIN
SUNHOURS
T_MAX
T_MIN
WDIR
WINDSP

Click
X to close box

the Lawes Agricultural
employee of Rothamsted
policy. To register please
fields and previewing their

extract data

To extract another date click 'Filter' and repeat steps from page 10 above

If you are finished
Click
Logout

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Archive

e-RA Data Extraction Tool

1: Select 2: Filter 3: Retrieve

POTENTIAL RISK OF LONG WAIT: some datasets are very large, so splitting your query may be required.

TIME OUT: If your query is extracting a large amount of data, the connection may be timed out before ALL the data has been extracted. Please check that ALL the data you asked for has been extracted. Again, splitting your query may be required.

Specify a sort order for your output rows here.

Your fields	Your sort order	Dataset Default Sort Order (Other fields will also be extracted)
DAY RAIN SUNHOURS T_MAX T_MIN WDIR WINDSP	--> <--	DAY RAIN SUNHOURS T_MAX T_MIN WDIR WINDSP

Please read this if you are not a registered user.
The data is available for scientific research, but remains the copyright of the Lawes Agricultural Trust. The data held within e-RA is password-protected. If you are not an employee of Rothamsted Research then access to data held in e-RA is subject to our Data Access Policy. To register please contact the **e-RA Curator** otherwise you can continue browsing dataset fields and previewing their contents -- to decide whether registration would be useful.

extract data

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Archive

Getting Started

Login/Logout

All Datasets

My Datasets

PUBLICDAYMET

e-RA Data Extraction Tool

For registered eRA users

Username

username or email address


Password

Login

Logout

>> public logged in.

Email eRA for information on [registering](#) or to [reset your password](#).


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RESEARCH

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Click
Logout

The screenshot shows the e-RA Data Extraction Tool interface. On the left is a navigation menu with links: e-RA Rothamsted, Archive, Getting Started, Login/Logout, All Datasets, My Datasets, and PUBLICDAYMET. The main content area is titled 'For registered eRA users' and contains a login form with fields for 'Username' (placeholder: 'username or email address') and 'Password', and 'Login' and 'Logout' buttons. Below the form, a message reads '>> Logged out.' with an orange line pointing to a callout box. At the bottom, there is a link to 'Email eRA for information on [registering](#) or to [reset your password](#).' The footer features the Rothamsted Research logo and the tagline 'where knowledge grows'.

e-RA
Rothamsted
Archive
Getting Started
Login/Logout
All Datasets
My Datasets
PUBLICDAYMET

e-RA Data Extraction Tool

For registered eRA users

Username

Password

>> Logged out.

Email eRA for information on [registering](#) or to [reset your password](#).

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**You are now logged out.
Thank you for using e-RA.**

**Send feedback or enquiries
to the e-RA curators at email
era.rothamsted@ac.uk**