

How to Generate a Single-point Analysis for Multiple Dates at Once



**US Army Corps
of Engineers®**

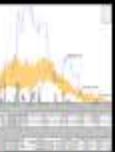


Antecedent Precipitation Tool
Version 2.0

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and
Development Center



Open the APT



Antecedent
Precipitation
Tool

C:\Users\L2RCSJ9D\Desktop\Antecedent P

Validating Desktop shortcut...

++++ +++ +++
hNNN +NNNy hNNm
hMMhMMmyhMMm
sNMMMMMMMMMMMd
+mMMMMMMMs
dMMMr++MMMM+
dMMMr MMM+
dMMMr MMM+
dMMMooyMMMyyyyyyHMMMMMMMyyyyyydMMMsodMMMs
dMMMs
dMMMs
dMMMNyyMMMMMyymMMh+
dMMMr MMMMM dMMN
dMMMr MMMMM+ dMMm
+dMMMr++MMMMMdNNMm
hMMMMMMNNMMMMMMMMm
hMMMMMMMMMMMMMMNNhhhhhhhNMMMMMMMMMMMMMMMo
yMMMMMMMMMMMMMMNNNNNNNNNNNNNNNNNNNNNNNNNNNNN+

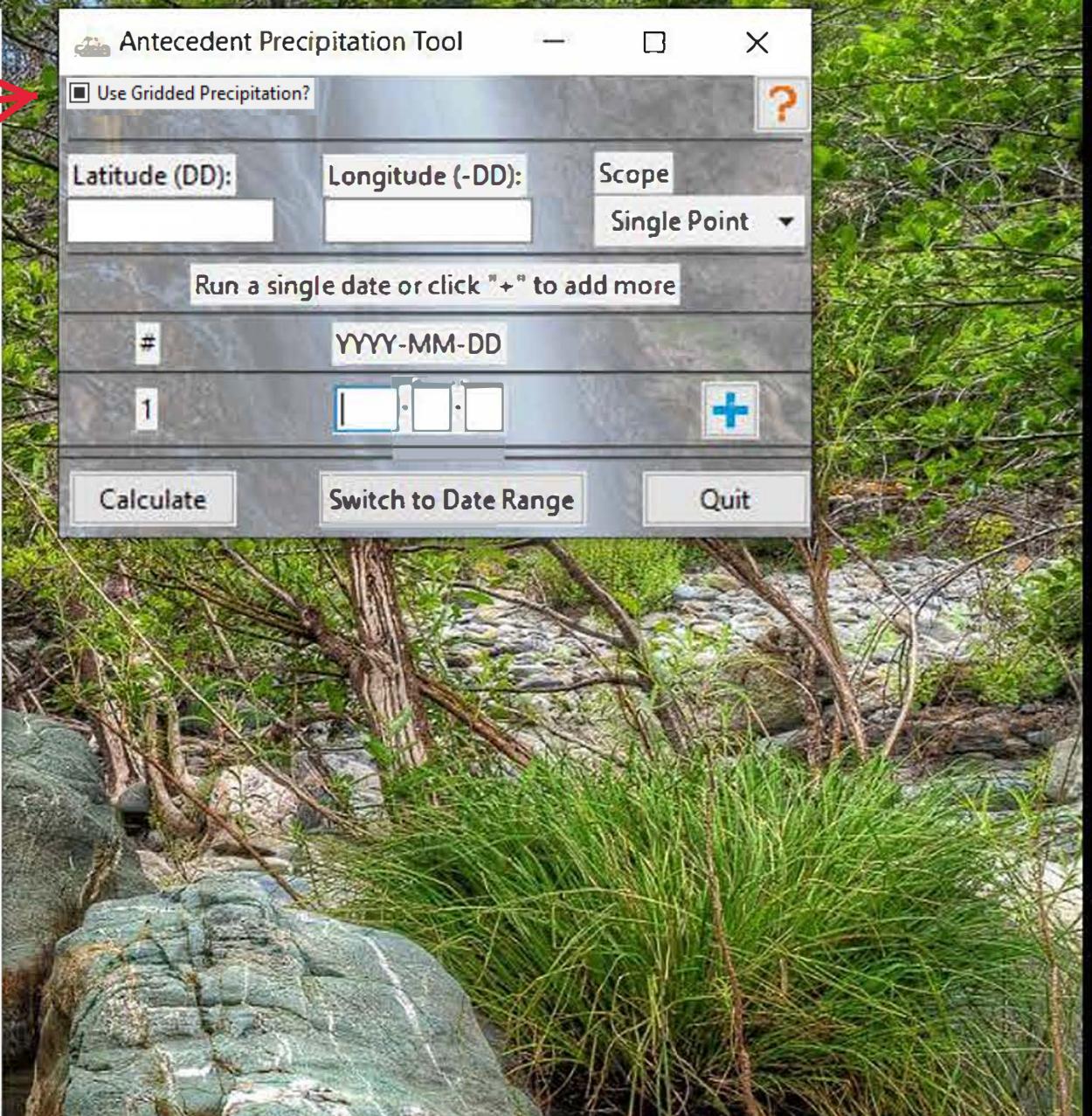
syyo syy yys sNMMMMMMMMMMMs
NMMh mMMMo+MMN +dMMMMMMMMh
NMMNNMMMNMMNMMN yMMMo+dMMMs
yNMMMMMMMMMMMy yMM+ dMMMs
sMMMMMMMMMMMs+ yMM+ dMMMs
dMMMooyMMMyyyyyyHMMMMMMMyyyyyydMMMsodMMMs
dMMMs
dMMMs
dMMMNyyMMMMMyymMMh+
NMMN NMMMM+ dMMMs
mMMN NMMMM+ dMMMs
mMMMdMMMMMo+dMMNh
mMMMMMMMMMMNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN+

-Written by:
Jason C. Deters,
U.S. Army Corps of Engineers

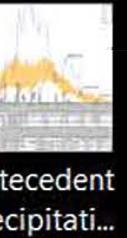
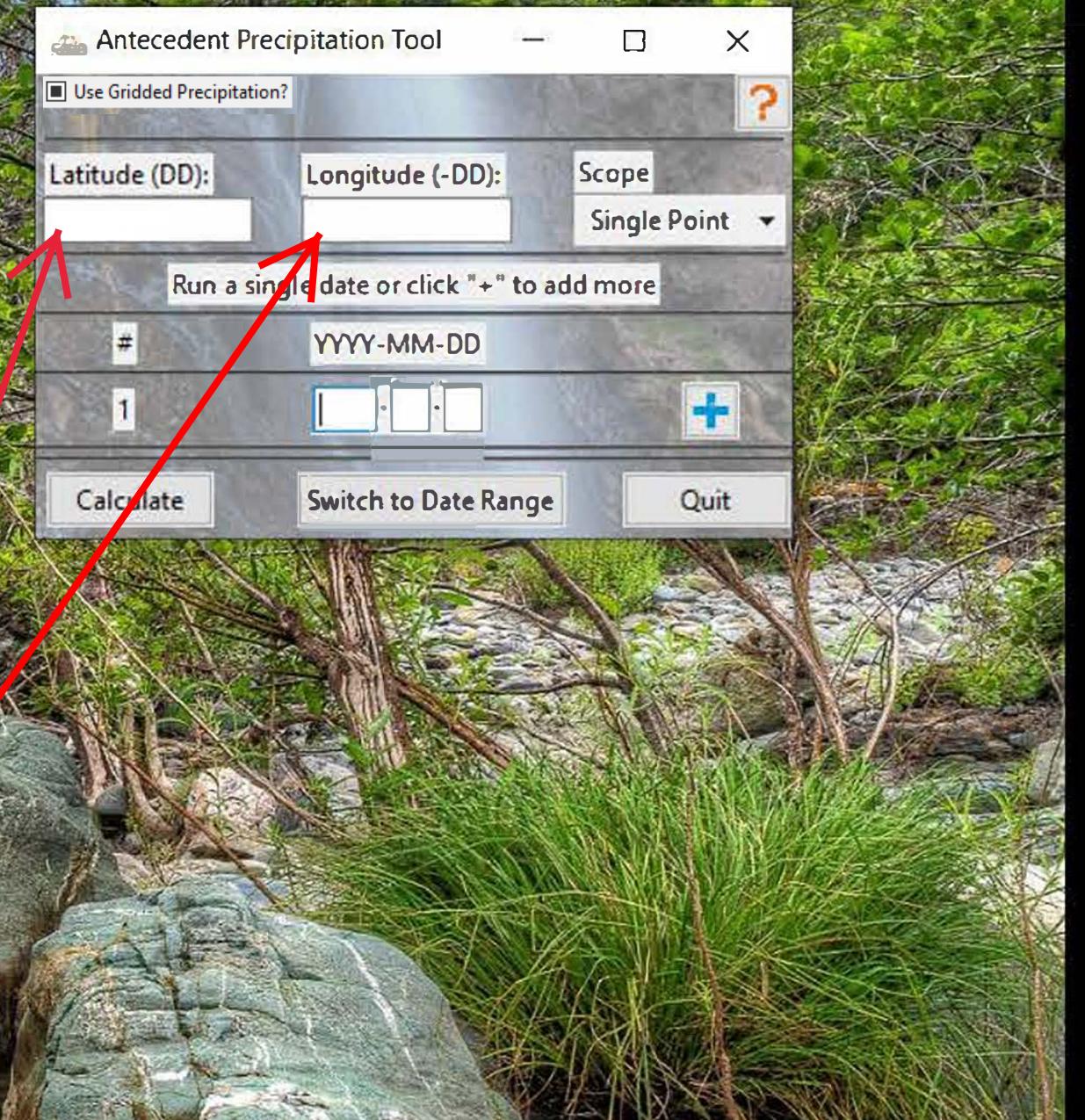
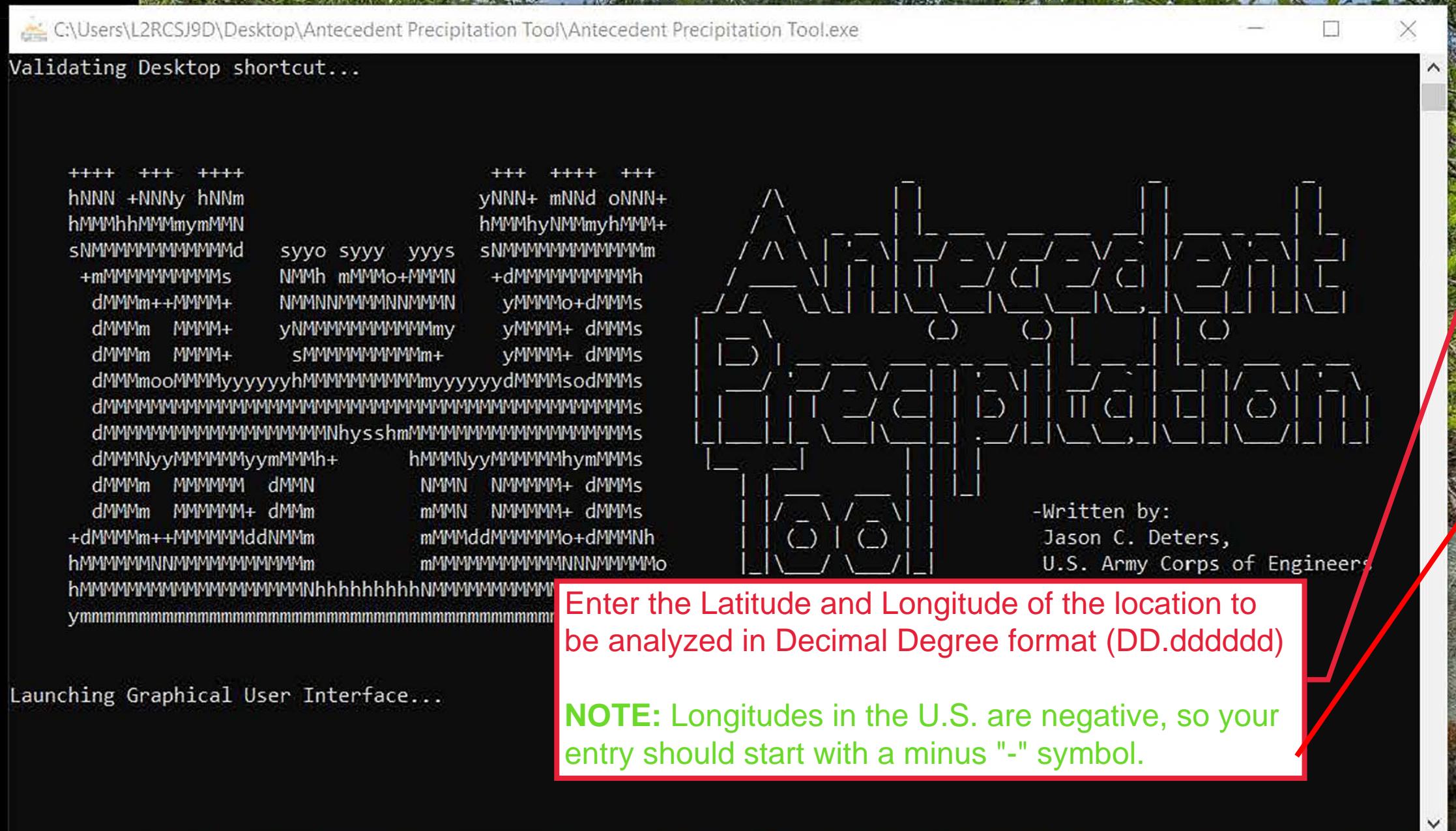
This walkthrough will primarily focus on using the station-based APT analysis but you can use the grid-based analysis by checking the "Use Gridded Precipitation" box and the process will work in a similar manner.



Launching Graphical User Interface...



Antecedent
Precipitati...



Validating Desktop shortcut...

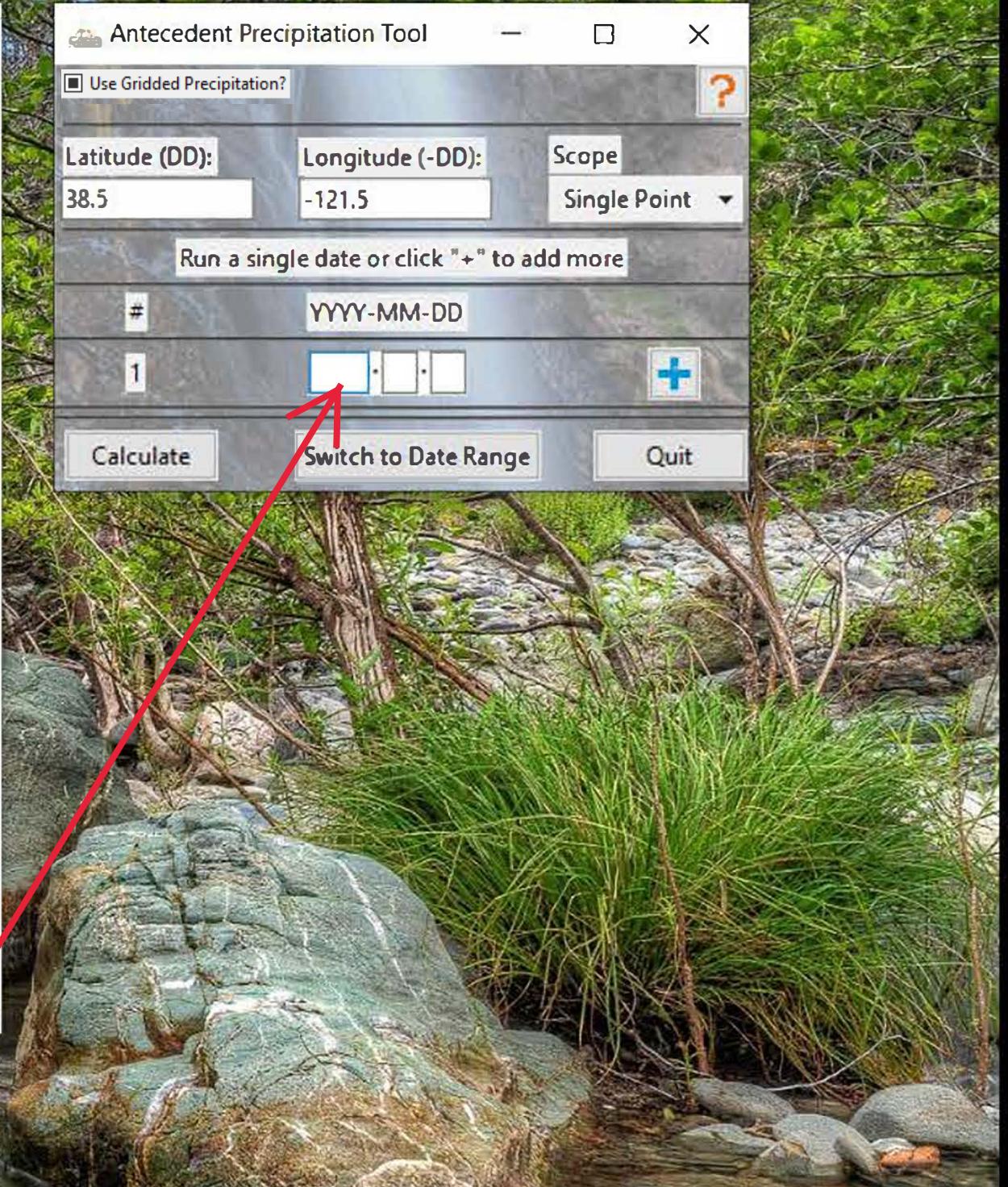
++++ +++ +++
hNNN +NNNy hNNm
hMMNhMMMyhMMN
sNMMMMMMMMMMMd
+mMMMMMMMMMs
dMMMr++MMMM+
dMMMr MMM+
dMMMr MMM+
dMMMooyMMMyyyyyyHMMMMMMMMMyyyyyydMMMsodMMNs
dMMNs
dMMNs
dMMMNyyMMMMMyymMMh+ hMMMNyyMMMMMyhmMMs
dMMMr MMMMM dMMN NMMN NMMMM+ dMMMs
dMMMr MMMMM+ dMMm mMMN NMMMM+ dMMMs
+dMMMr++MMMMMdNMMn
hMMMMMMNNMMMMMMMMNm
hMMMMMMMMMMMMMMMMNmhhhhhhhNMMMMMMMMMMMMMMMo
yMMMMMMMMMMMMMMMMNmMMMMMMMMMMMMMMMMMMMMMM+

+++ +++ +++
yNNN+ mNNd oNNN+
hMMMyhNMMMyhMM+
sNMMMMMMMMMMMm
+dMMMMMMMMMs
yMMMo+dMMMs
yMM+ dMMMs
yMM+ dMMMs
dMMMooyMMMyyyyyyHMMMMMMMMMyyyyyydMMMsodMMNs
dMMNs
dMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMNs
dMMMNyyMMMMMyymMMh+ hMMMNyyMMMMMyhmMMs
dMMMr MMMMM dMMN NMMN NMMMM+ dMMMs
dMMMr MMMMM+ dMMm mMMN NMMMM+ dMMMs
+dMMMr++MMMMMdNMMn
hMMMMMMNNMMMMMMMMNm
hMMMMMMMMMMMMMMMMNmhhhhhhhNMMMMMMMMMMMMMMMo
yMMMMMMMMMMMMMMMMNmMMMMMMMMMMMMMMMMMMMMMM+

A large graphic of a river scene with rocks and water.

Launching Graphical User Interface...

Enter the first date you wish to analyze in YYYY-MM-DD format.



C:\Users\L2RCSJ9D\Desktop\Antecedent Precipitation Tool\Antecedent Precipitation Tool.exe

Validating Desktop shortcut...

++++ +++ +++++
hNNN +NNNy hNNm
hMMNhMMMyhMMN
sNMMMMMMMMMMMd
+mMMMMMMMMMs
dMMMr++MMMM+
dMMMr MMM+
dMMMr MMM+
dMMMooyMMMyyyyyyHMMMMMMMMMyyyyyydMMMsodMMNs
dMMNs
dMMNs
dMMMNyyMMMMMyymMMh+
dMMMr MMMMM dMMN
dMMMr MMMMM+ dMMm
+dMMMr++MMMMMdNNMn
hMMMMMMNNMMMMMMMMNm
hMMMMMMMMMMMMMMMMNmhhhhhhhNMMMMMMMMMMMMMMNm
ymm+



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Jason C. Deters,
U.S. Army Corps of Engineers

Launching Graphical User Interface...

Antecedent Precipitation Tool

Use Gridded Precipitation?



Latitude (DD):

38.5

Longitude (-DD):

-121.5

Scope

Single Point

Run a single date or click "+" to add more

YYYY-MM-DD

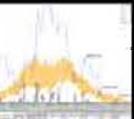
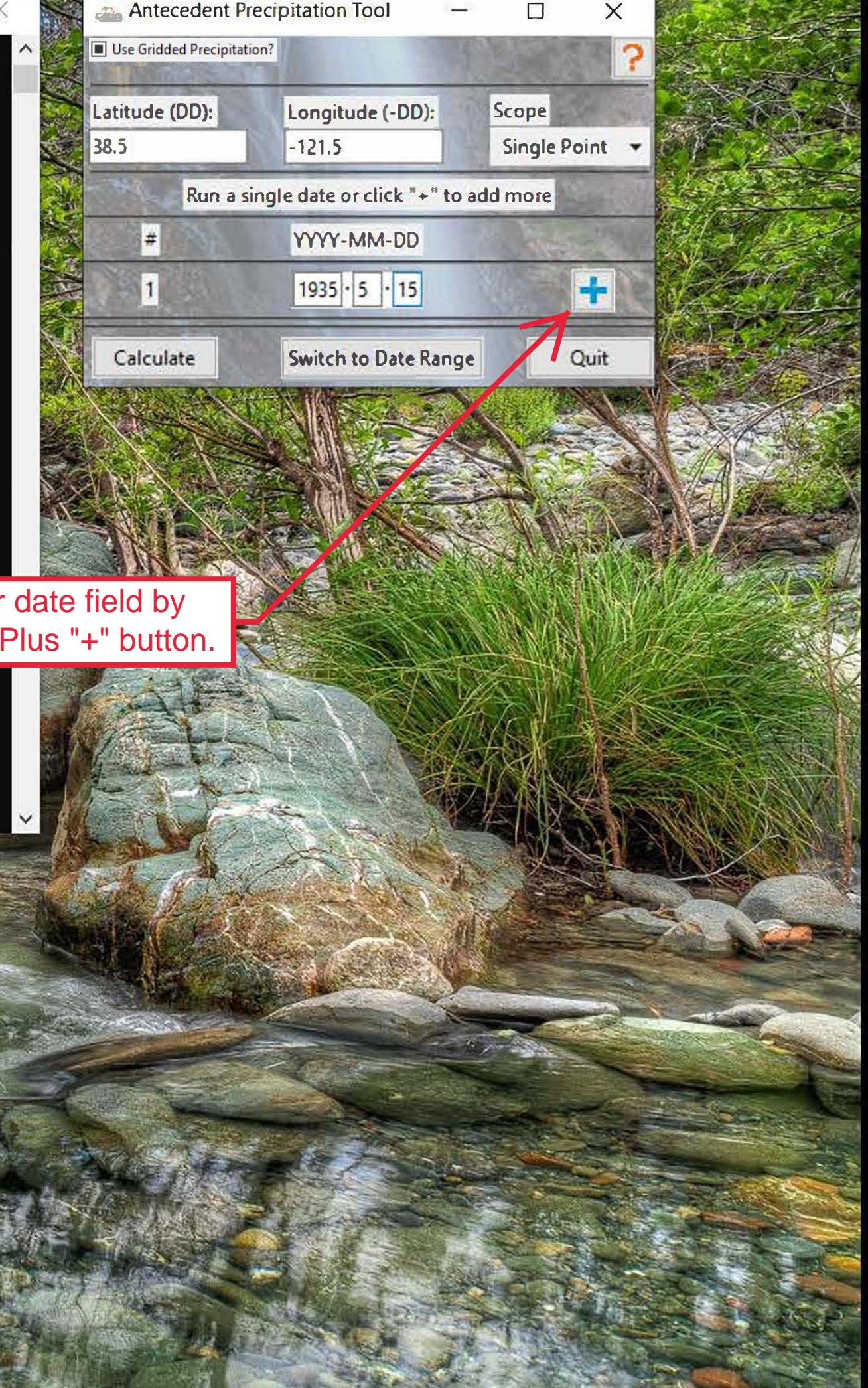
1 1935 · 5 · 15



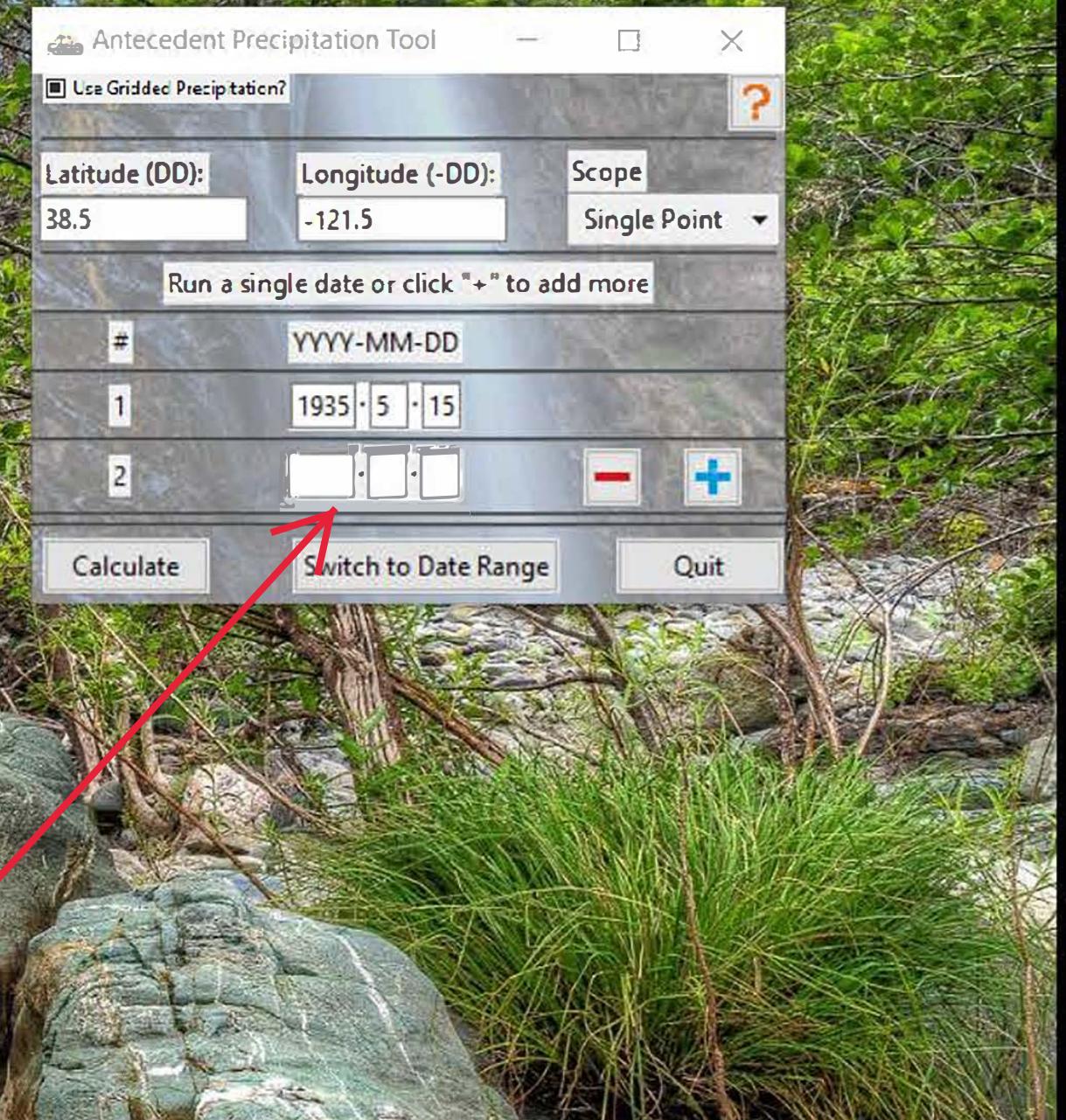
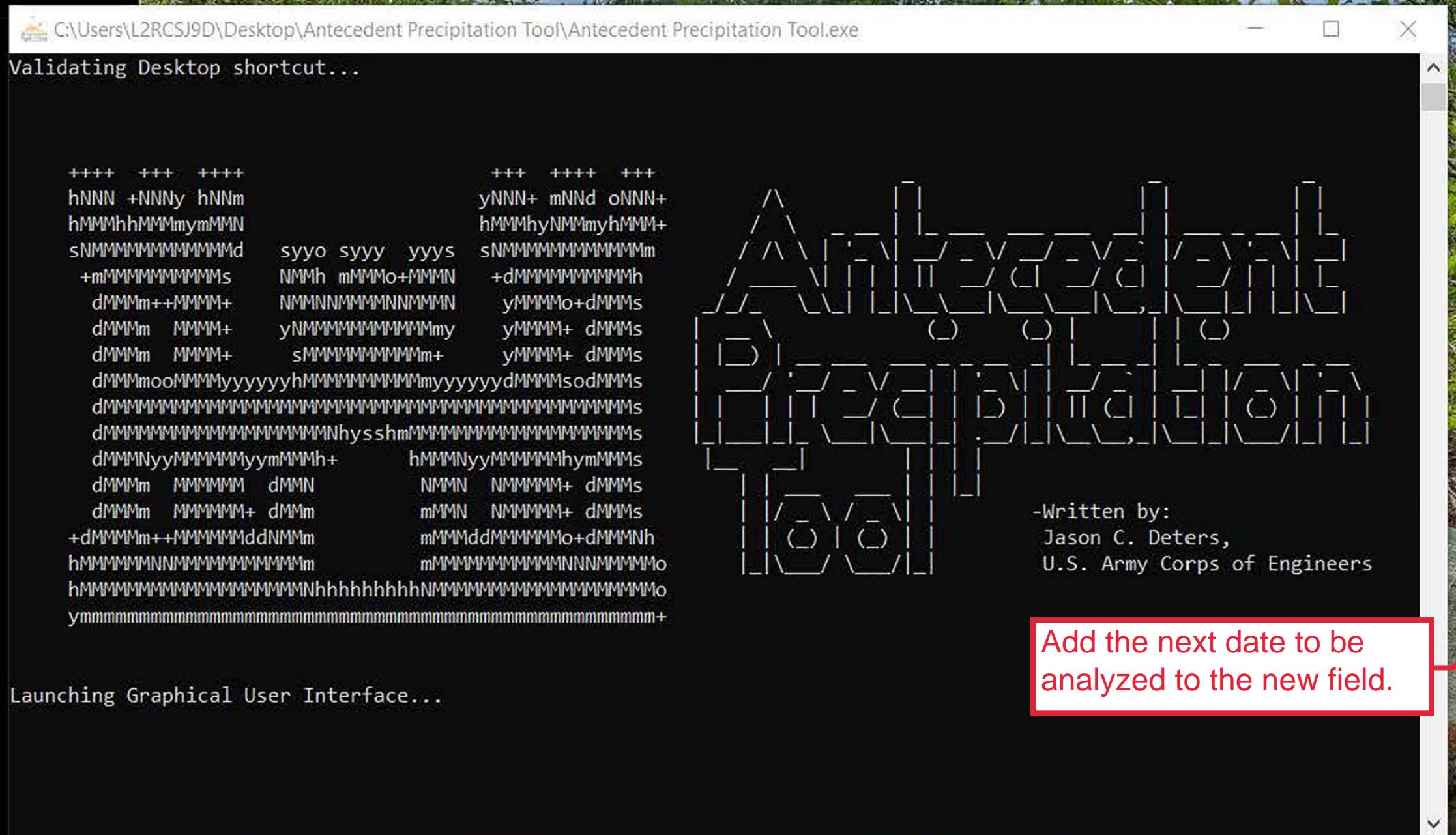
Calculate

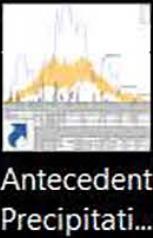
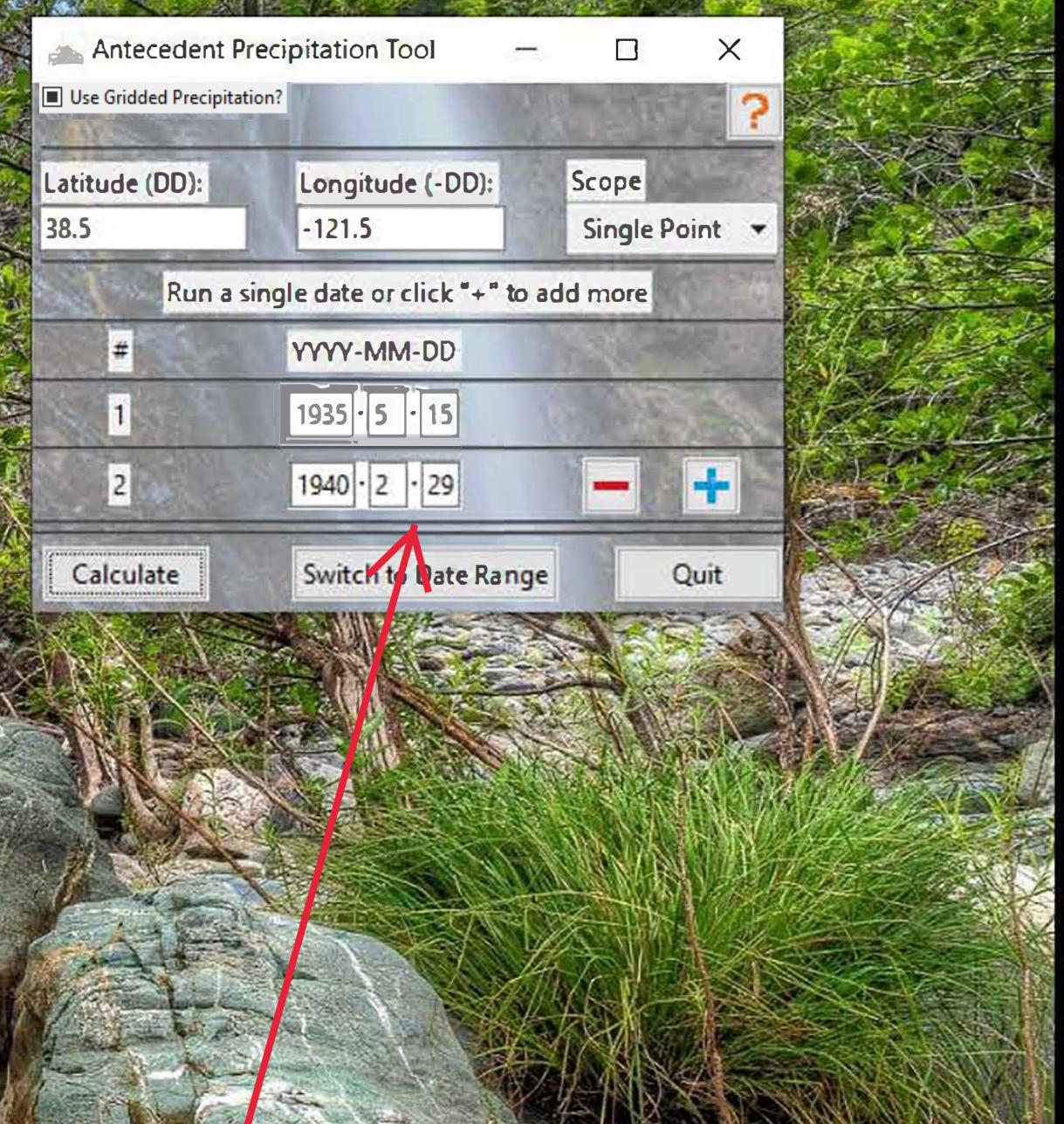
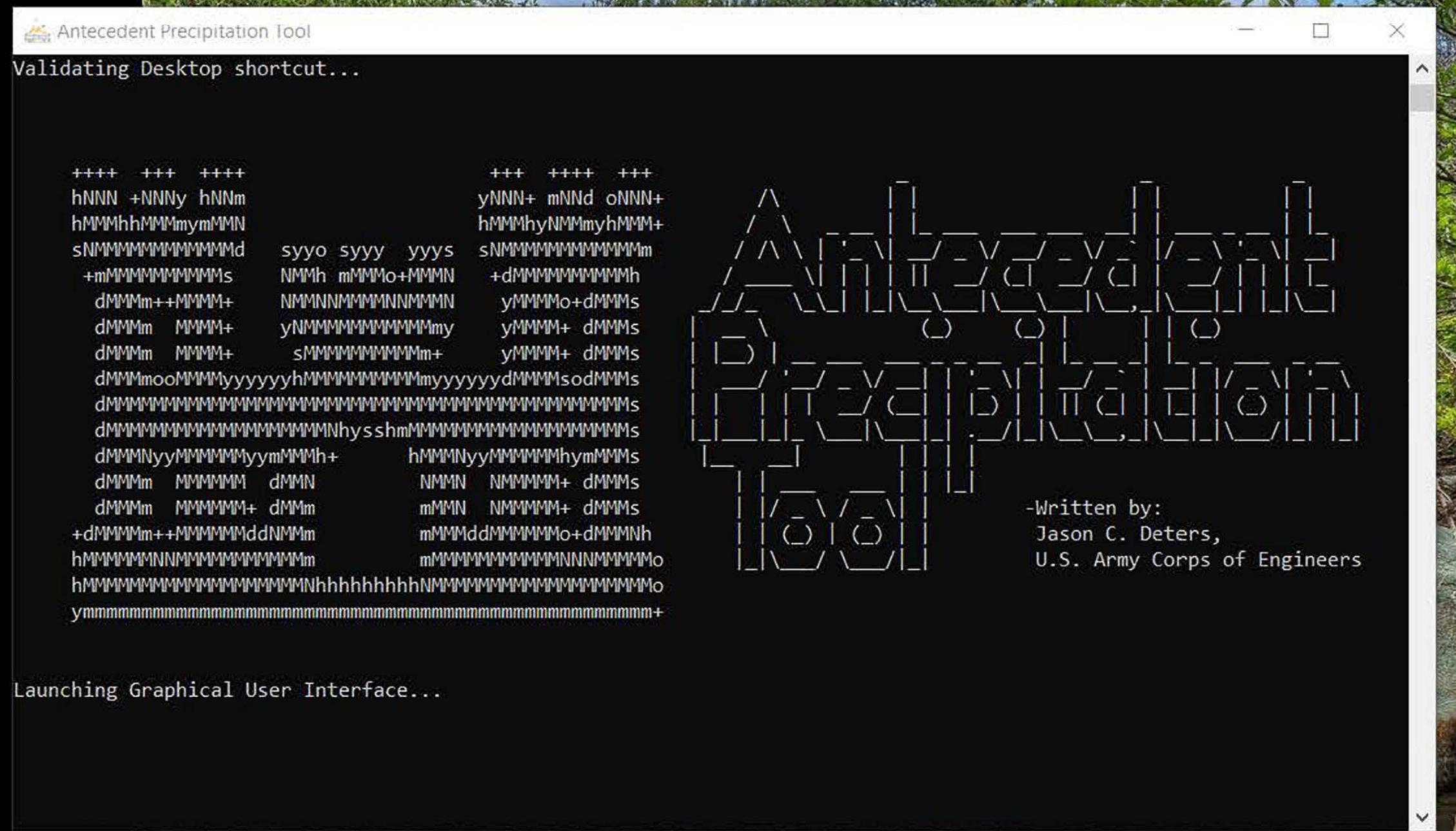
Switch to Date Range

Quit



Antecedent
Precipitati...





Antecedent Precipitation Tool

Validating Desktop shortcut...

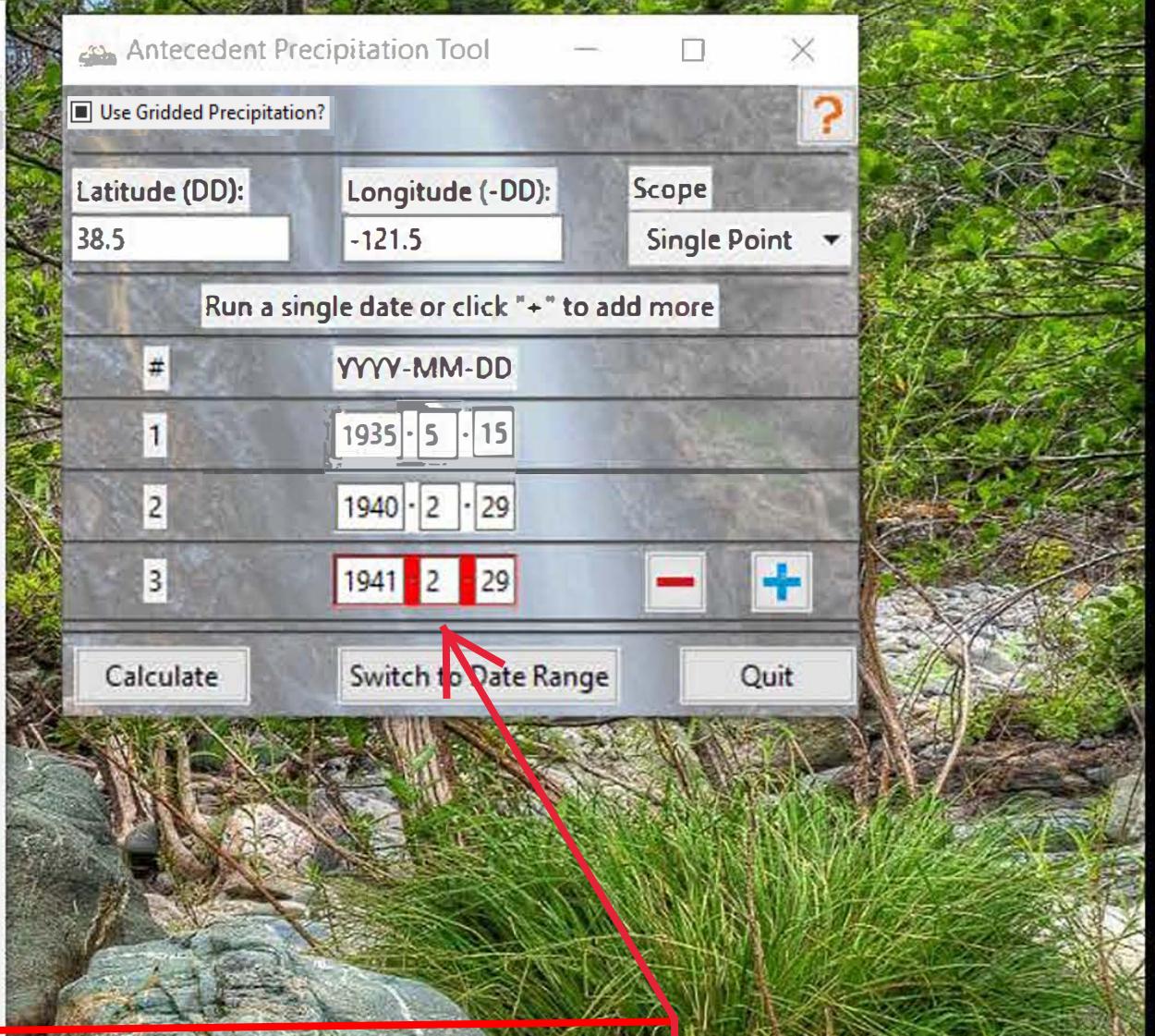
```
++++ +++ ++++
hNNN +NNNy hNNm
hMMhhMMmymMN
sNMMMMMMMMMMMd
+mMMMMMMMMMs
dMMNm++MMMM+
dMMNm MMM+
dMMNm MMM+
dMMMmooMMMyyyyyyhyhMMMMMMMMMyyyyyydMMMsodMMs
dMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMs
dMMMMMMMMMMMMMMMMMMMMNhysshMmmMMMMMMMMMMMMMs
dMMMNyyMMMMMyymMMh+
dMMNm MMMMM dMMN
dMMNm MMMMM+ dMMm
+dMMNm++MMMMMdNMMm
hMMMMMMNMMMMMMMMm
hMMMMMMMMMMMMMMNNhhhhhhhhNMMMMMMMMMMMMMo
ymmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm+
```

Launching Graphical User Interface...

DAY IS OUT OF RANGE FOR MONTH!



-Written by:
Jason C. Deters,
U.S. Army Corps of Engineers



If the date entered is not a valid calendar date, the date box will turn red and the console will provide an explanation.



Antecedent
Precipitation
Tool

Antecedent Precipitation Tool

Validating Desktop shortcut...

++++ +++ +++
hNNN +NNNy hNNm
hMMhhMMmymMN
sNMMMMMMMMMMMd
+mMMMMMMMMMs
dMMNm++MMMM+
dMMNm MMM+
dMMNm MMM+
dMMNmooMMMyyyyyyhyhMMMMMMMMMyyyyyydMMMsodMMs
dMMMs
dMMMMMMMMMMMMMMMMMMNhysshMmmMMMMMMMMMMMMMs
dMMMNyyMMMMMyymMMh+
dMMNm MMMMM dMMN
dMMNm MMMMM+ dMMm
+dMMNm++MMMMMdNMMm
hMMMMMMNMMMMMMMMm
hMMMMMMMMMMMMMMNhhhhhhhhNMMMMMMMMMMMMMo
ymm+



-Written by:
Jason C. Deters,
U.S. Army Corps of Engineers

Launching Graphical User Interface...

DAY IS OUT OF RANGE FOR MONTH!

Antecedent Precipitation Tool

Use Gridded Precipitation?

Latitude (DD):

38.5

Longitude (-DD):

-121.5

Scope

Single Point

Run a single date or click "+" to add more

YYYY-MM-DD

1 1935 · 5 · 15

2 1940 · 2 · 29

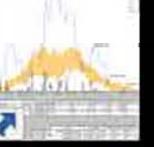
3 1941 · 2 · 28

- +

Calculate

Switch to Date Range

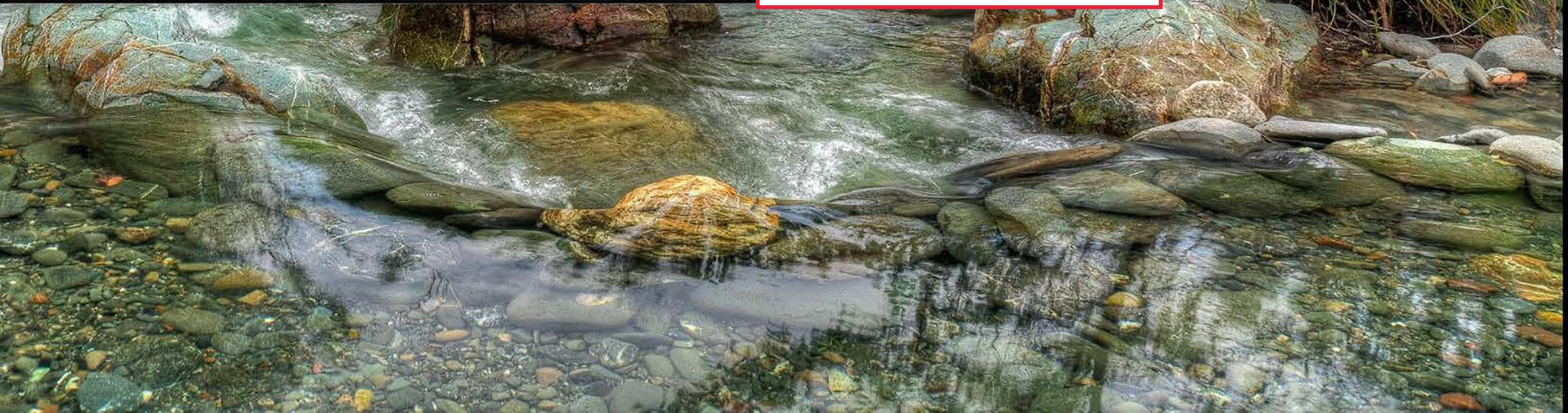
Quit



Antecedent
Precipitati...

The entry box will turn white once a valid entry is provided.

Let's look at a few other invalid cases.



Validating Desktop shortcut...

++++ +++ +++
hNNN +NNNy hNNm
hMMhhMMmyMMN
sNMMMMMMMMMMMd
+mMMMMMMMMMs
dMMMm++MMMM+
dMMMm MMM+
dMMMm MMM+
dMMMmooMMMyyyyyyhyhMMMMMMMMMyyyyyydMMMsodMMMs
dMMMs
dMMMMMMMMMMMMMMMMMMNhysshMmmMMMMMMMMMMMMMMMs
dMMMNyyMMMMMyymMMh+
dMMm MBBBB dMMN
dMMm MBBBB+ dMMm
+dMMMm++MMMMMdNMMm
hMMMMMMNNMMMMMMMM
hMMMMMMMMMMMMNNhhhhhhhNMMMMMMMMMMMM
ymm

Launching Graphical User Interface...

DAY IS OUT OF RANGE FOR MONTH!

Year cannot be less than 1910!



For a station-based analysis, the APT will not accept dates earlier than 1910. For a grid based analysis, the tool will not accept dates earlier than 1983.

These restrictions are based upon data availability.

For a station-based analysis, calculating the Normal Range for 1910-01-01 requires data from as far back as 1878-09-01. The tool may fail to locate sufficient data to perform the analysis for such early dates (1910-1940). However, many places in the U.S. have such historic records available, which is why these years are allowed.

The earliest available gridded data is 1 January 1951 and the APT will require data between 1951-1983 for calculating the precipitation climatology.

Antecedent Precipitation Tool

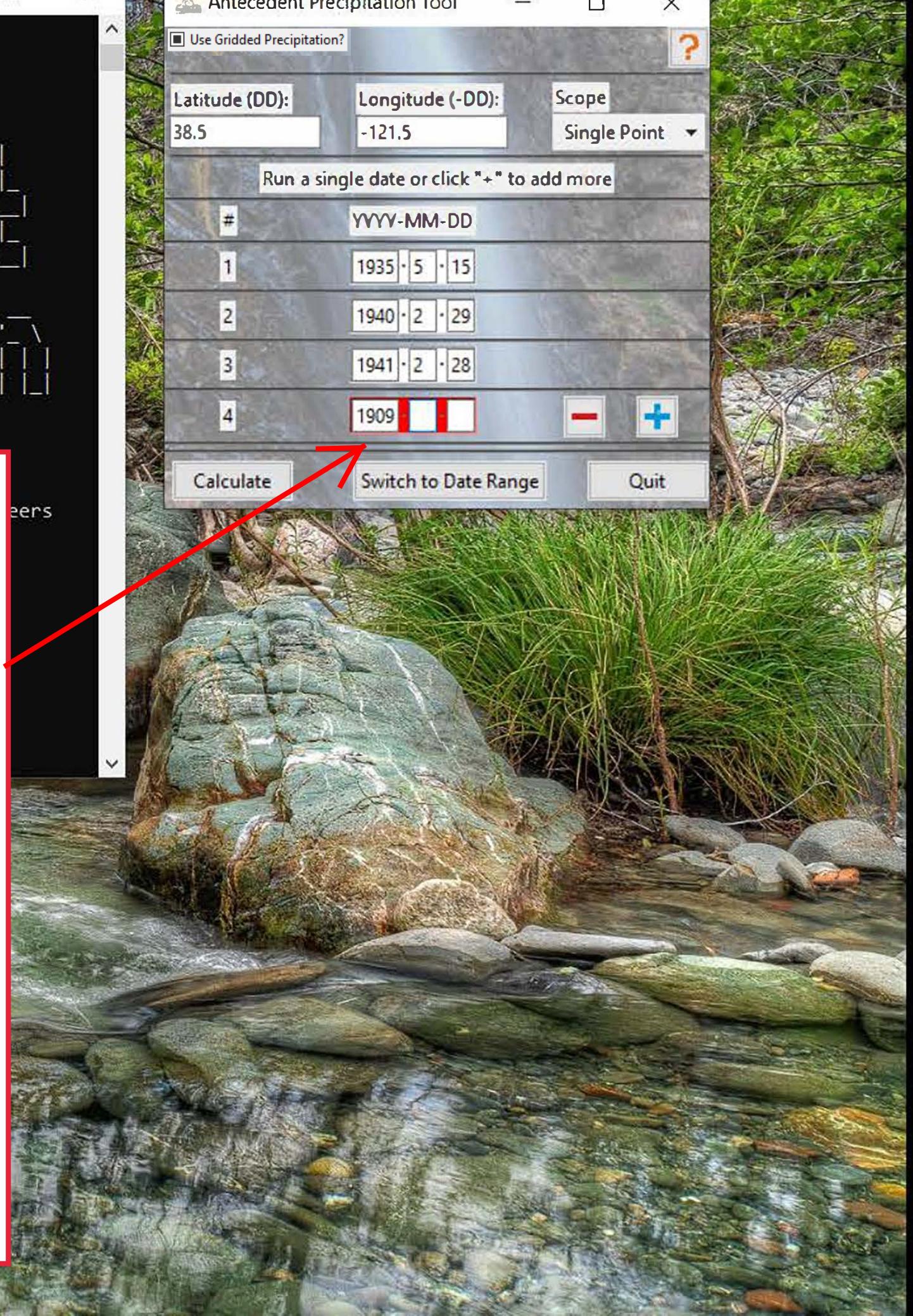
Use Gridded Precipitation?

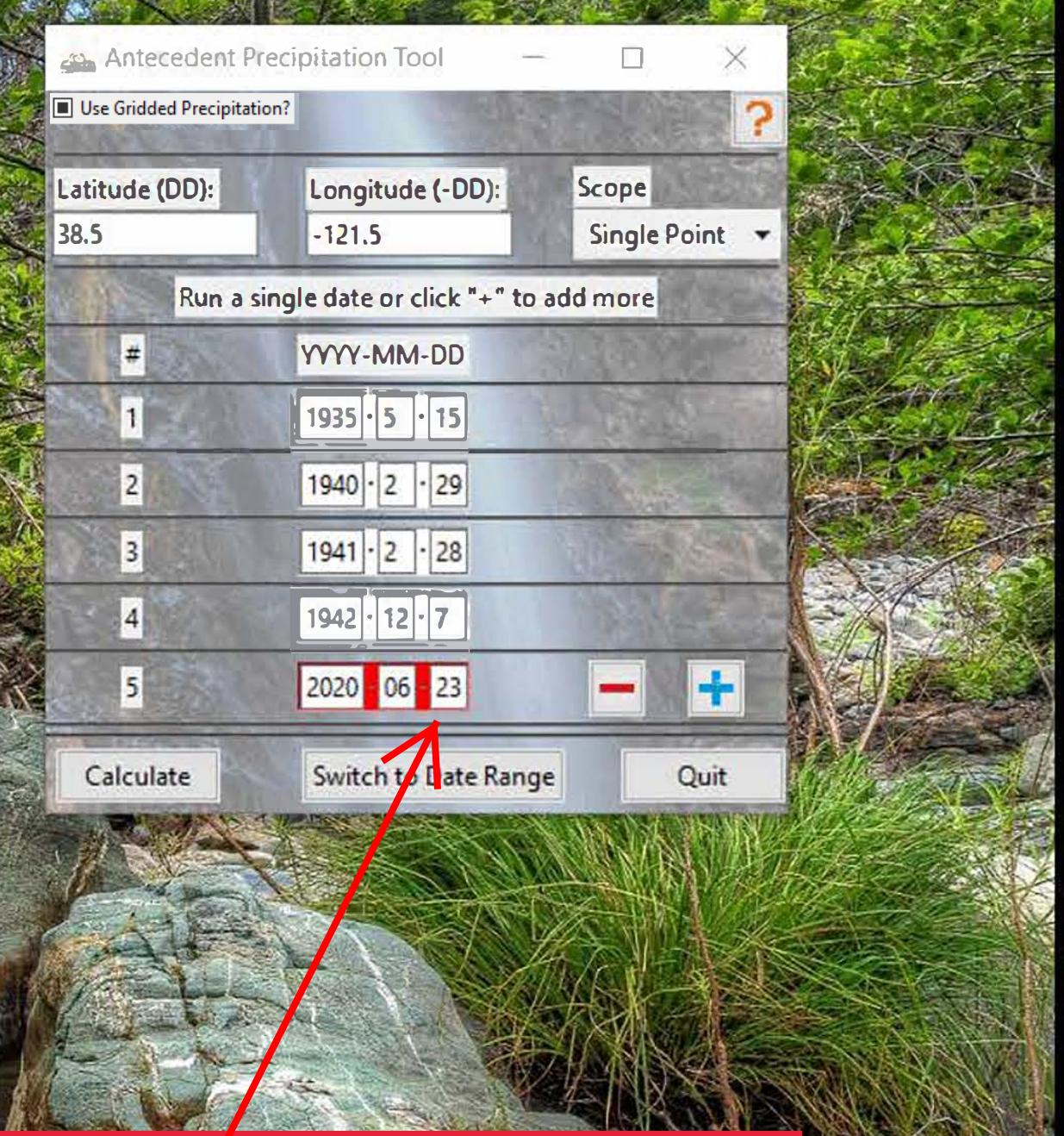
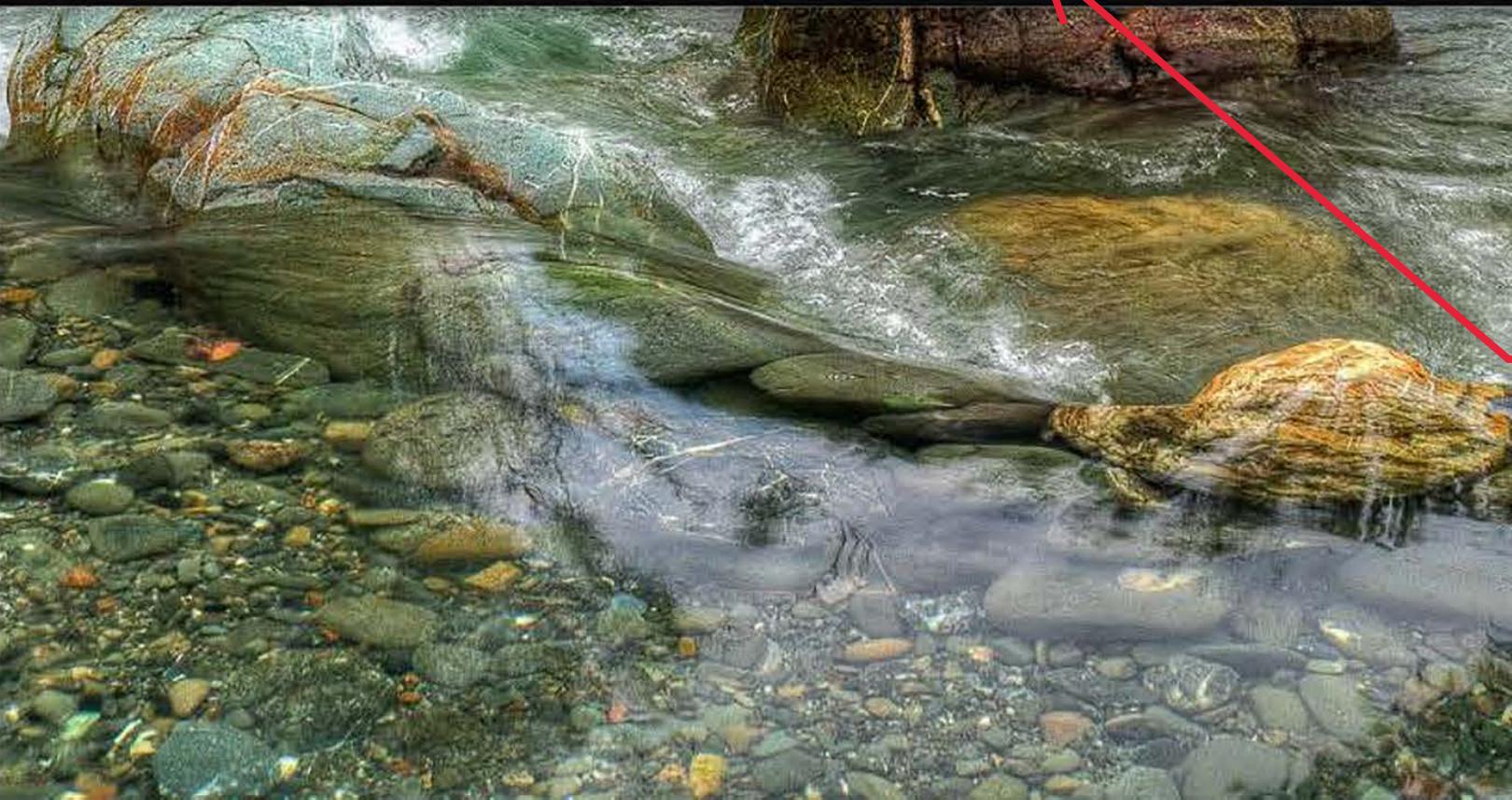
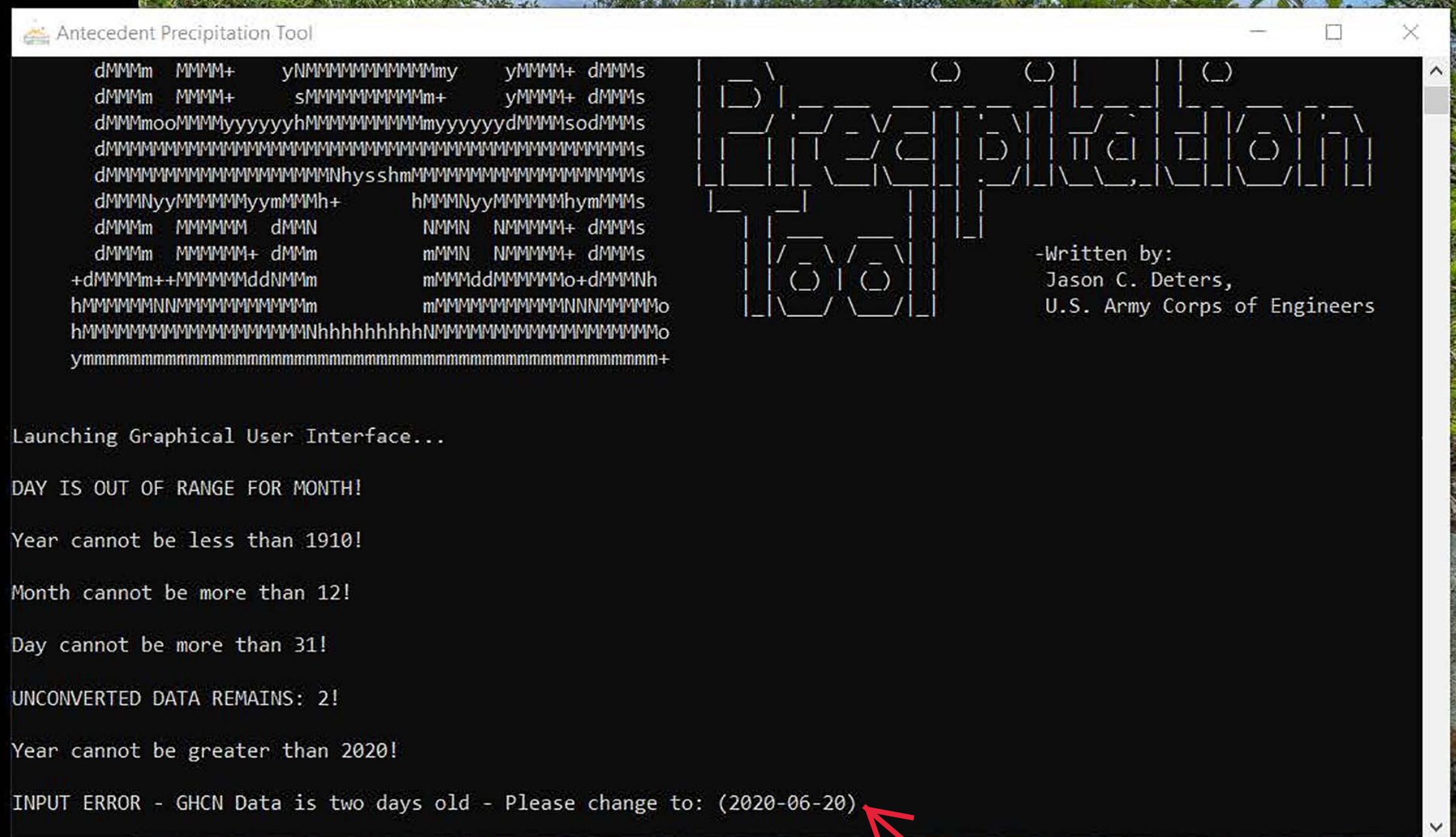
Latitude (DD): 38.5 Longitude (-DD): -121.5 Scope: Single Point

Run a single date or click "+" to add more

#	YYYY-MM-DD
1	1935 · 5 · 15
2	1940 · 2 · 29
3	1941 · 2 · 28
4	1909 · · ·

Calculate Switch to Date Range Quit

Antecedent
Precipitati...



For the station-based analysis, the most recent date the APT will accept is two days prior to the current date. This is because it usually takes at least two days for a new precipitation measurement to make it into the Global Historic Climatology Network (GHCN) database on which the APT relies.

For the grid-based analysis, the most recent date the APT will accept is three days prior to the current date. This is based upon the data services developed by NOAA that provide this data. Furthermore, gridded data for the current month and the previous two months are preliminary and subject to change.

Antecedent Precipitation Tool

+mMMMMMMMMMs NMMh mMMMo+MMMN +dMMMMMMMMh
dMMMm++MMMM+ NMMNNMMMMNNMMMN yMMMMo+dMMMs
dMMMt MMMM+ yNMMMMMMMMMMMy dMMMs
dMMMt MMM+ sMMMMMMMMMm+ yMMMM+ dMMMs
dMMMmooMMMyyyyyyhyMMMMMMMMMyyyyyydMMMsodMMMs
dMMMs
dMMMMMMMMMMMMMMMMMMMMNhysshMmmMMMMMMMMMMMMMMMs
dMMMNyyMMMMMyymMMh+ hMMMNyyMMMMMyhmMMs
dMMMt MMMMM dMMN NMMN NMMMM+ dMMMs
dMMMt MMMMM+ dMMm mMMN NMMMM+ dMMMs
+dMMMMm++MMMMMdNMMm mMMddMMMMMo+dMMNh
hMMMMMMNNMMMMMMMMm mMMMMMMMMNNNNMMMMo
hMMMMMMMMMMMMMMMMNNhhhhhhhNMMMMMMMMMMMMMMMo
yMMMMMMMMMMMMMMMMmMMmMMmMMmMMmMMmMMmMMm+

Launching Graphical User Interface...

DAY IS OUT OF RANGE FOR MONTH!

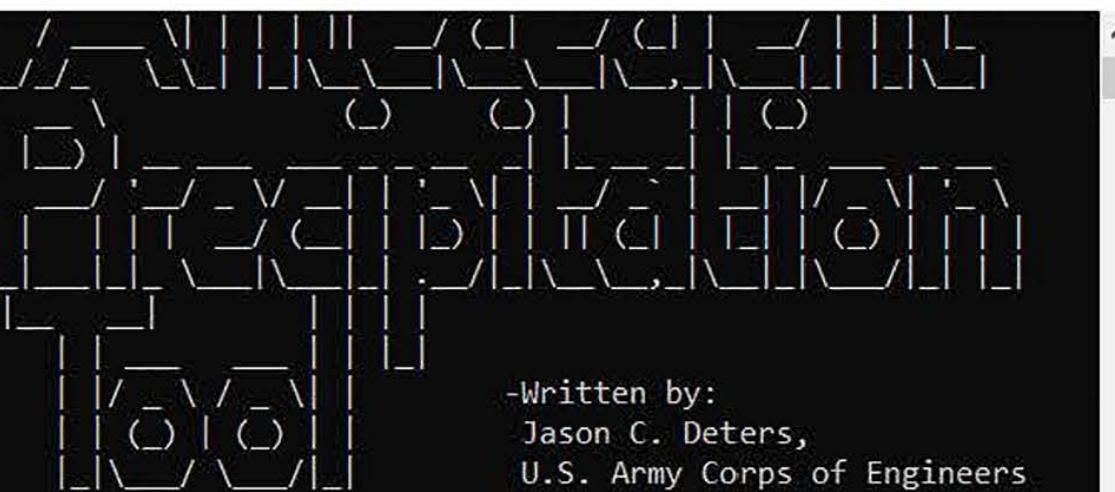
Year cannot be less than 1910!

Year cannot be less than 1910!

Year cannot be less than 1910!

Month cannot be more than 12!

INPUT ERROR - GHCN Data is two days old - Please change to: (2020-06-20)



-Written by:
Jason C. Deters,
U.S. Army Corps of Engineers

Antecedent Precipitation Tool

Use Gridded Precipitation?

Latitude (DD): 38.5 Longitude (-DD): -121.5 Scope: Single Point

Run a single date or click "+" to add more

#	YYYY-MM-DD
1	1935 · 5 · 15
2	1940 · 2 · 29
3	1941 · 2 · 28
4	1942 · 12 · 7
5	1943 · 6 · 12
6	1944 · 7 · 19
7	1945 · 8 · 21
8	1950 · 3 · 15
9	1951 · 6 · 16
10	1952 · 7 · 04
11	1965 · 1 · 1
12	1971 · 5 · 28
13	1973 · 7 · 4
14	1978 · 11 · 21
15	1981 · 12 · 2
16	1984 · 4 · 24
17	1985 · 9 · 13
18	1989 · 5 · 18
19	1998 · 12 · 01
20	2020 · 06 · 20

Calculate Switch to Date Range Quit

Once you have entered all of the dates you wish to analyze, click the "Calculate" button to start the batch process.

NOTE: You may add as many days to the APT interface as your screen size will allow. However, for ease of use, we suggest using the CSV Input method for more than 20 days. For more info, click the orange question mark in the upper-right corner to open the "Help Menu," and then select "How to generate a single-point analysis for many dates using a spreadsheet."



Antecedent
Precipitati...

Antecedent Precipitation Tool

```
Rain Batch 4 - ['PRCP', '38.5', '-121.5', 1942, '12']
Rain Batch 5 - ['PRCP', '38.5', '-121.5', 1943, '06'
Rain Batch 6 - ['PRCP', '38.5', '-121.5', 1944, '07'
Rain Batch 7 - ['PRCP', '38.5', '-121.5', 1945, '08
Rain Batch 8 - ['PRCP', '38.5', '-121.5', 1950, '03
Rain Batch 9 - ['PRCP', '38.5', '-121.5', 1951, '06
Rain Batch 10 - ['PRCP', '38.5', '-121.5', 1952, '07
Rain Batch 11 - ['PRCP', '38.5', '-121.5', 1965, '01
Rain Batch 12 - ['PRCP', '38.5', '-121.5', 1971, '05
Rain Batch 13 - ['PRCP', '38.5', '-121.5', 1973, '07
Rain Batch 14 - ['PRCP', '38.5', '-121.5', 1978, '11
Rain Batch 15 - ['PRCP', '38.5', '-121.5', 1981, '12
Rain Batch 16 - ['PRCP', '38.5', '-121.5', 1984, '04, '24', None, None]
Rain Batch 17 - ['PRCP', '38.5', '-121.5', 1985, '09, '13', None, None]
Rain Batch 18 - ['PRCP', '38.5', '-121.5', 1989, '05, '18', None, None]
Rain Batch 19 - ['PRCP', '38.5', '-121.5', 1998, '12, '01', None, None]
Rain Batch 20 - ['PRCP', '38.5', '-121.5', 2020, '06, '20', None, None]
```

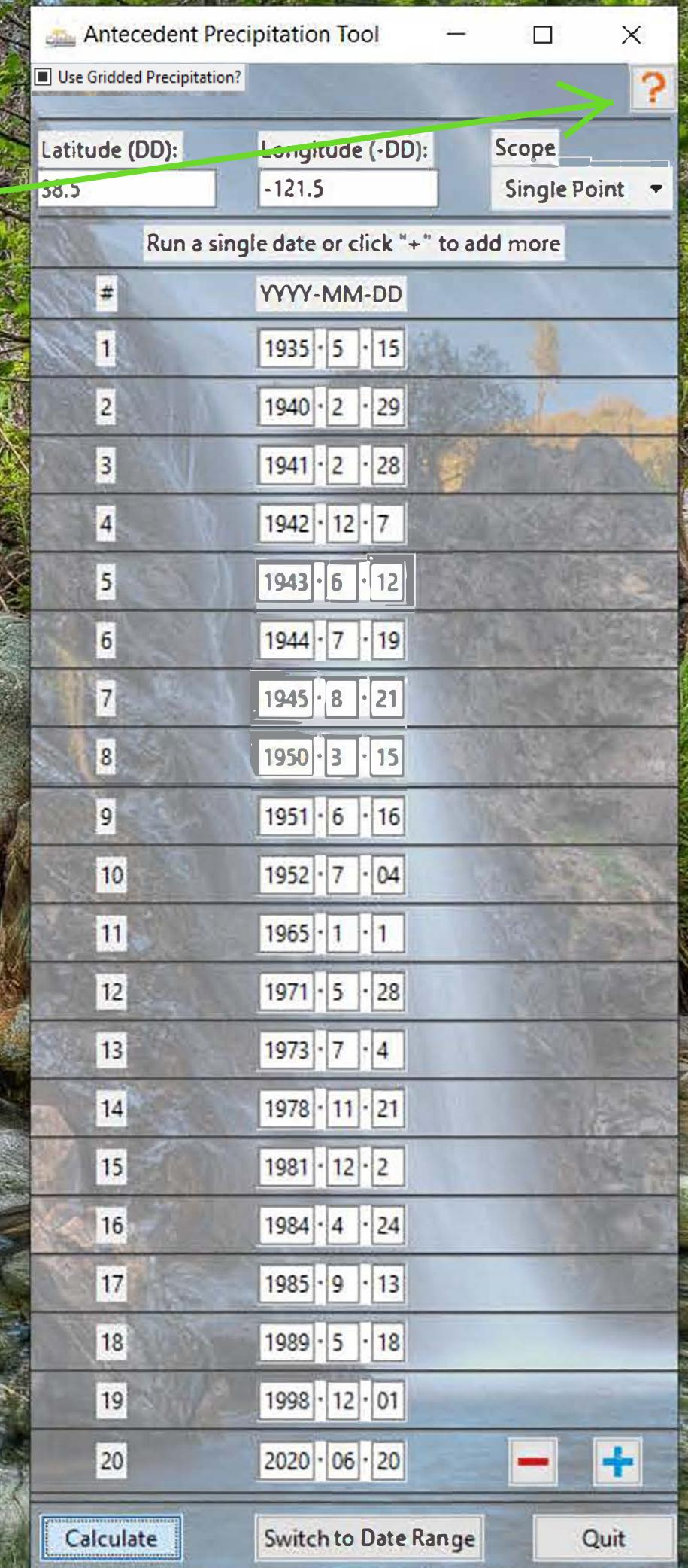
```
#####
##### Single Point Batch Analysis - Date 1 of 20 #####
#####
Running: ['PRCP', '38.5', '-121.5', 1935, '05', '15', None, None, 'C:\\\\Users\\\\L2RCSJ9D\\\\Desktop\\\\Antecedent
Precipitation Tool\\\\Outputs', '0']

Checking for previously cached NCDC GHCN Weather Station Records...
Querying Elevation at Observation Point (38.5, -121.5)...
Request URL: https://nationalmap.gov/epqs/pqs.php?x=-121.5&y=38.5&output=json&units=Feet
```

The tool will iterate through all of the dates that were entered.

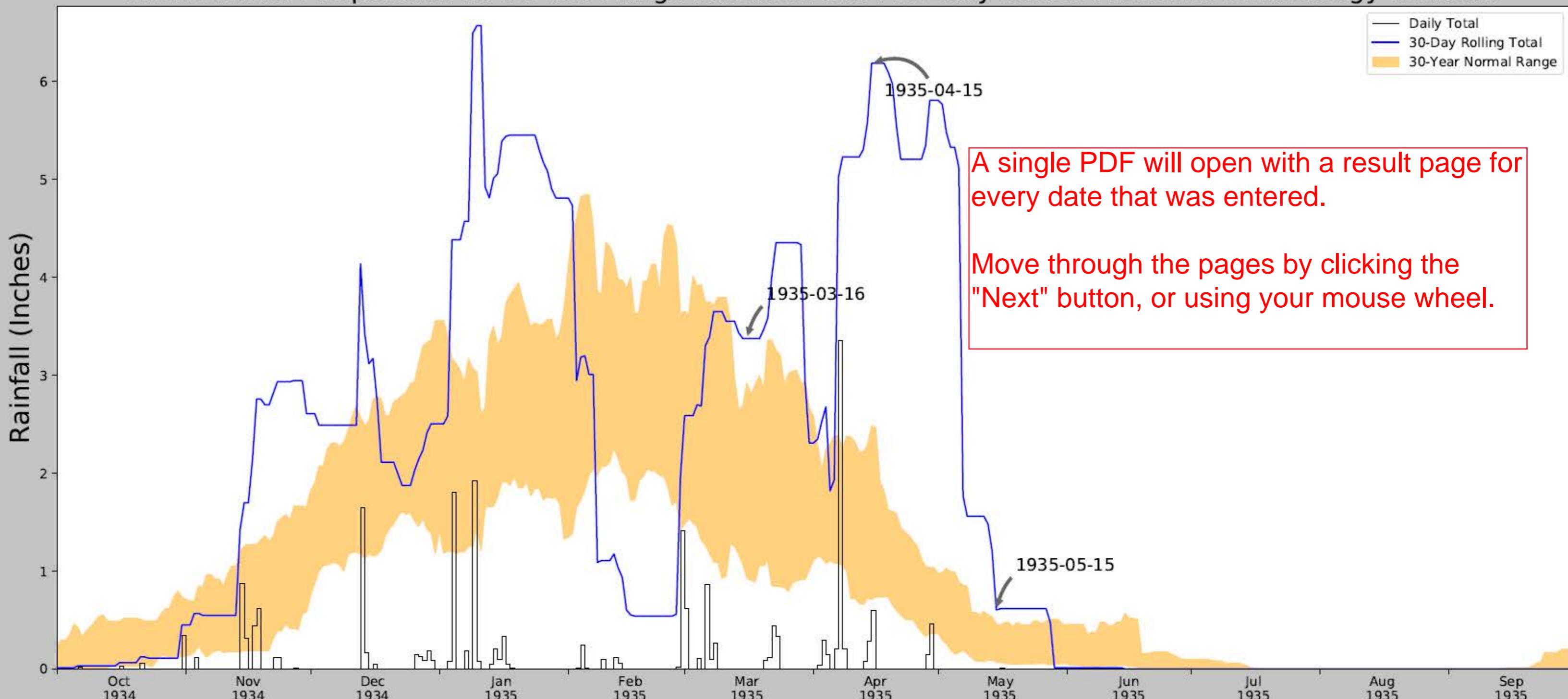
More detail about the specifics of the process is shown in the "How to generate a single-point analysis for a given date" PDF Instructions, available in the Help Menu.

A complete description of the process can be found in the User and Technical Guide that can be found in the Help Menu.



Antecedent
Precipitati...

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	38.5, -121.5
Observation Date	1935-05-15
Elevation (ft)	7.14
Drought Index (PDSI)	Normal
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
1935-05-15	0.066142	0.459055	0.602362	Wet	3	3	9
1935-04-15	0.711024	2.482677	6.18504	Wet	3	2	6
1935-03-16	0.926378	2.920866	3.374016	Wet	3	1	3
Result							Wetter than Normal - 18

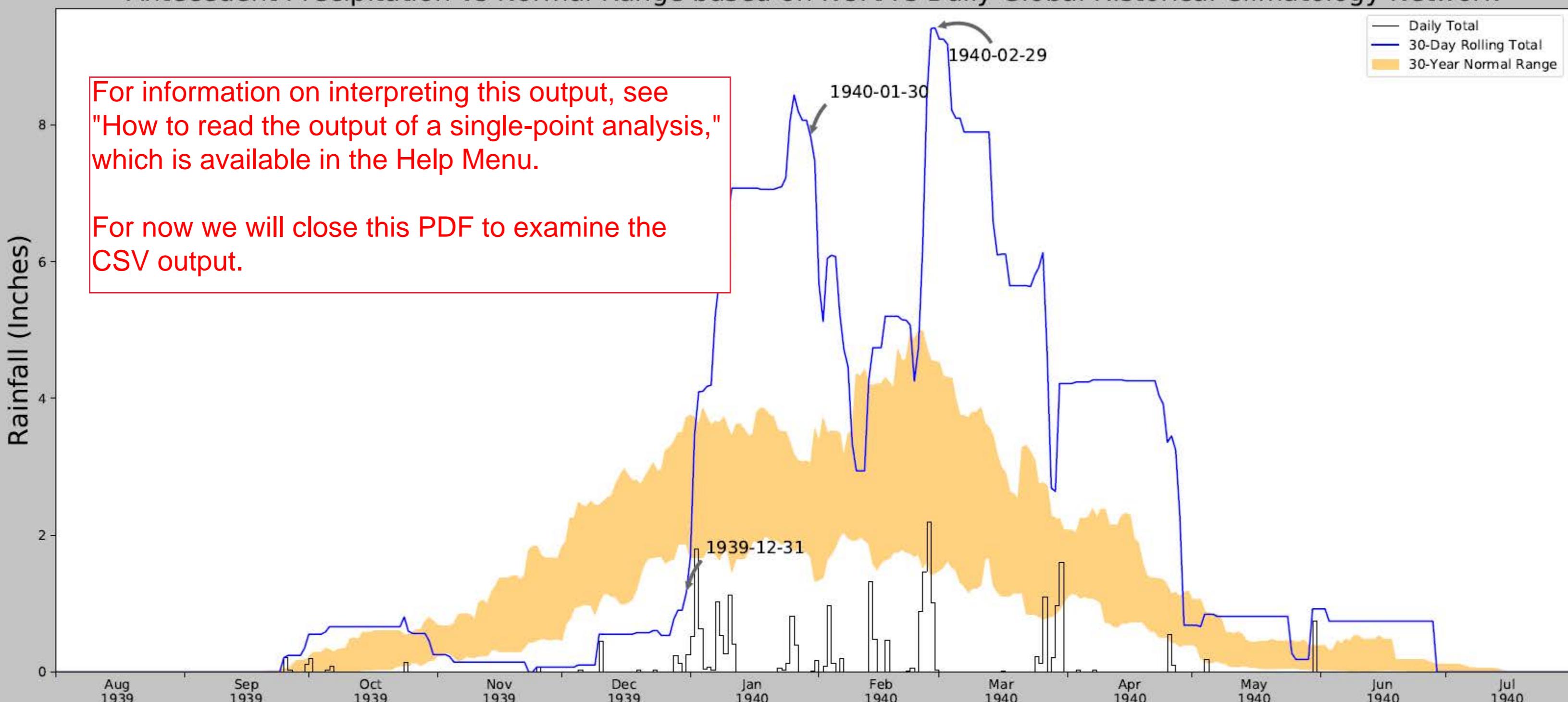


Figures and tables made by the
Antecedent Precipitation Tool
Version 2.0

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and
Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	5.91	30.918	2.842	11289	90
DAVIS 2 WSW EXP FARM	38.535, -121.7761	60.039	15.121	52.899	7.604	64	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	38.5, -121.5
Observation Date	1940-02-29
Elevation (ft)	7.14
Drought Index (PDSI)	Moderate wetness
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
1940-02-29	1.450197	4.535827	9.413386	Wet	3	3	9
1940-01-30	1.677165	3.046063	7.822835	Wet	3	2	6
1939-12-31	1.875591	3.710236	1.153543	Dry	1	1	1
Result							Wetter than Normal - 16



Figures and tables made by the
Antecedent Precipitation Tool
Version 2.0

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and
Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	5.91	30.918	2.842	11289	90
DAVIS 2 WSW EXP FARM	38.535, -121.7761	60.039	15.121	52.899	7.604	63	0

1 38.5,-121.5

(38.5, -121.5) Batch Result.csv - Excel

	A	B	C	D	E	F	G	H
1	Latitude	Longitude	Date	PDSI Value	PDSI Class	Season	Antecede	Antecedent Precip Condition
2	38.5	-121.5	5/15/1935	-0.32	Normal	Dry Season	18	Wetter than Normal
3	38.5	-121.5	2/29/1940	2.54	Moderate wetness	Wet Season	16	Wetter than Normal
4	38.5	-121.5	2/28/1941	2.84	Moderate wetness	Wet Season	18	Wetter than Normal
5	38.5	-121.5	12/7/1942	1.86	Mild wetness	Wet Season	14	Normal Conditions
6	38.5	-121.5	6/12/1943	0.39	Normal	Dry Season	14	Normal Conditions
7	38.5	-121.5	7/19/1944	1.08	Mild wetness	Dry Season	18	Wetter than Normal
8	38.5	-121.5	8/21/1945	1.3	Mild wetness	Dry Season	12	Normal Conditions
9	38.5	-121.5	3/15/1950	0.5	Incipient wetness	Wet Season	11	Normal Conditions
10	38.5	-121.5	6/16/1951	-0.65	Incipient drought	Dry Season	10	Normal Conditions
11	38.5	-121.5	7/4/1952	2.16	Moderate wetness	Dry Season	14	Normal Conditions
12	38.5	-121.5	1/1/1965	2.23	Moderate wetness	Wet Season	18	Wetter than Normal
13	38.5	-121.5	5/28/1971	0.8	Incipient wetness	Dry Season	13	Normal Conditions
14	38.5	-121.5	7/4/1973	-2.53	Moderate drought	Dry Season	9	Drier than Normal
15	38.5	-121.5	11/21/1978	-1.11	Mild drought	Wet Season	11	Normal Conditions
16	38.5	-121.5	12/2/1981	2.86	Moderate wetness	Wet Season	17	Wetter than Normal
17	38.5	-121.5	4/24/1984	-1.82	Mild drought	Dry Season	9	Drier than Normal
18	38.5	-121.5	9/13/1985	1.13	Mild wetness	Dry Season	15	Wetter than Normal
19	38.5	-121.5	5/18/1989	0.84	Incipient wetness	Dry Season	15	Wetter than Normal
20	38.5	-121.5	12/1/1998	-0.79	Incipient drought	Wet Season	12	Normal Conditions
21	38.5	-121.5	6/20/2020	-1.75	Mild drought (2020-05)	Dry Season	9	Drier than Normal
22								

(38.5, -121.5) Batch Result

READY

23 items

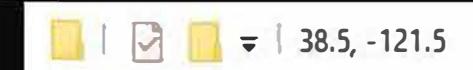
20 2020-06-20
Calculate Switch to Date Range Quit

Longitude (-DD): Scope
121.5 Single Point
date or click "+" to add more

The Batch Result.csv contains the key values from each of the PDF outputs in tabular format. This format is especially useful for quickly sorting through a list of dates for which satellite or aerial imagery is available.



Antecedent Precipitati...



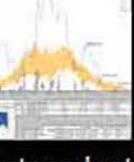
Below the PDF and CSV outputs, we find the output folder, which the tool opens to ensure the user can see where their data were saved.

File Home Share
Pin to Quick access Copy Paste
Clipboard Organize New Open Select
« Desktop > Antecedent Precipitation Tool > Outputs > v1_0_3 > 38.5, -121.5 Search 38.5, -121.5

#	Name	Date modified	Type	Size
1	Station Data	6/22/2020 3:04 AM	File folder	
2	(38.5, -121.5) Batch Result.csv	6/22/2020 3:05 AM	Microsoft Excel C...	2 KB
3	(38.5, -121.5) Batch Result.pdf	6/22/2020 3:05 AM	Adobe Acrobat D...	12 KB
4	1935-05-15.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	91 KB
5	1940-02-29.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	90 KB
6	1941-02-28.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	92 KB
7	1942-12-07.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	92 KB
8	1943-06-12.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	91 KB
9	1944-07-19.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	91 KB
10	1945-08-21.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	91 KB
11	1950-03-15.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	91 KB
12	1951-06-16.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	91 KB
13	1952-07-04.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	92 KB
14	1965-01-01.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	91 KB
15	1971-05-28.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	92 KB
16	1973-07-04.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	92 KB
17	1978-11-21.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	90 KB
18	1981-12-02.pdf	6/22/2020 3:04 AM	Adobe Acrobat D...	91 KB
19	1984-04-24.pdf	6/22/2020 3:05 AM	Adobe Acrobat D...	91 KB
20	1985-09-13.pdf	6/22/2020 3:05 AM	Adobe Acrobat D...	91 KB
21	1989-05-18.pdf	6/22/2020 3:05 AM	Adobe Acrobat D...	91 KB
22	1998-12-01.pdf	6/22/2020 3:05 AM	Adobe Acrobat D...	91 KB
23	2020-06-20.pdf	6/22/2020 3:05 AM	Adobe Acrobat D...	90 KB

23 items

Use Gridded Precipitation? ?
Date (DD): Longitude (-DD): Scope
-121.5 Single Point
Run a single date or click "+" to add more
YYYY-MM-DD
1 1935 · 5 · 15
2 1940 · 2 · 29
3 1941 · 2 · 28
4 1942 · 12 · 7
5 1943 · 6 · 12
6 1944 · 7 · 19
7 1945 · 8 · 21
8 1950 · 3 · 15
9 1951 · 6 · 16
10 1952 · 7 · 04
11 1965 · 1 · 1
12 1971 · 5 · 28
13 1973 · 7 · 4
14 1978 · 11 · 21
15 1981 · 12 · 2
16 1984 · 4 · 24
17 1985 · 9 · 13
18 1989 · 5 · 18
19 1998 · 12 · 01
20 2020 · 06 · 20
- +
Calculate Switch to Date Range Quit



Antecedent Precipitati...

Antecedent Precipitation Tool

Station Data

File Home Share View

Pin to Quick access Copy Paste Cut Copy path Move to Copy to Delete Rename New folder New item Easy access Properties Open Select all Select none Invert selection New Open Select

Clipboard

Organize

New

Open

Select

Outputs > v1_0_3 > 38.5, -121.5 > Station Data

Search Station Data

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Con
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Rea

Quick access

- Desktop
- Downloads
- Documents
- Pictures
- Documents
- Revised_Walkthroughs
- Scripts
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Windows (C:)
- Network

Name Date modified Type Size

CLARKSBURG_1941-02-28	1/14/2021 9:55 AM	Microsoft Excel C...	36 KB
CLARKSBURG_1942-12-07	1/14/2021 9:55 AM	Microsoft Excel C...	45 KB
CLARKSBURG_1943-06-12	1/14/2021 10:00 AM	Microsoft Excel C...	48 KB
CLARKSBURG_1944-07-19			
CLARKSBURG_1945-08-21			
CLARKSBURG_1950-03-15			
CLARKSBURG_1951-06-16			
CLARKSBURG_1952-07-04			
CLARKSBURG_1965-01-01			
CLARKSBURG_1971-05-28			
CLARKSBURG_1973-07-04			
DAVIS 2 WSW EXP FARM_193			
DAVIS 2 WSW EXP FARM_194			
DAVIS 2 WSW EXP FARM_194			
DAVIS 2 WSW EXP FARM_194			
DAVIS 2 WSW EXP FARM_194			
DAVIS 2 WSW EXP FARM_195			
DAVIS 2 WSW EXP FARM_195			
DAVIS 2 WSW EXP FARM_195			
DAVIS 2 WSW EXP FARM_195			
merged_stations_1935-05-15			
merged_stations_1940-02-29			
merged_stations_1941-02-28			
merged_stations_1942-12-07			
merged_stations_1943-06-12			
merged_stations_1944-07-19	1/14/2021 10:00 AM	Microsoft Excel C...	186 KB
merged_stations_1945-08-21	1/14/2021 10:00 AM	Microsoft Excel C...	187 KB

93 items

Use Gridded Precipitation?

de (DD): Longitude (-DD): Scope

-121.5 Single Point

Run a single date or click "+" to add more

YYYY-MM-DD

1 1935 · 5 · 15

2 1940 · 2 · 29

3 1941 · 2 · 28

4 1942 · 12 · 7

5 1943 · 6 · 12

1944 · 7 · 19

1945 · 8 · 21

1950 · 3 · 15

1951 · 6 · 16

1952 · 7 · 04

1965 · 1 · 1

1971 · 5 · 28

1973 · 7 · 4

1978 · 11 · 21

1981 · 12 · 2

1984 · 4 · 24

1985 · 9 · 13

1989 · 5 · 18

1998 · 12 · 01

20 2020 · 06 · 20

- +

Calculate Switch to Date Range Quit



Antecedent Precipitation Tool

May	-75	-64	11	Dry Season
Jun	-129	-45	84	Dry Season
Jul	-153	-14	139	Dry Season
Aug	-139	-3	136	Dry Season
Sep	-96	-1	96	Dry Season
Oct	-42	0	43	Dry Season
Nov	31	30	0	Wet Season
Dec	58	58	0	Wet Season

<---Selected Month

#

--- GRAPH & TABLE GENERATION ---

Constructing graph, plotting data, and configuring tables...

Generating figure with graph and tables...

Saving C:\Users\L2RCSJ9D\Desktop\Antecedent Precipitation Tool\Outputs\v1_0_3\38.5, -121.5\2020-06-20.pdf

Closing figure...

Opening Batch Results CSV in new process...

Opening finalPDF in new process...

Attempting to delete temporary files...

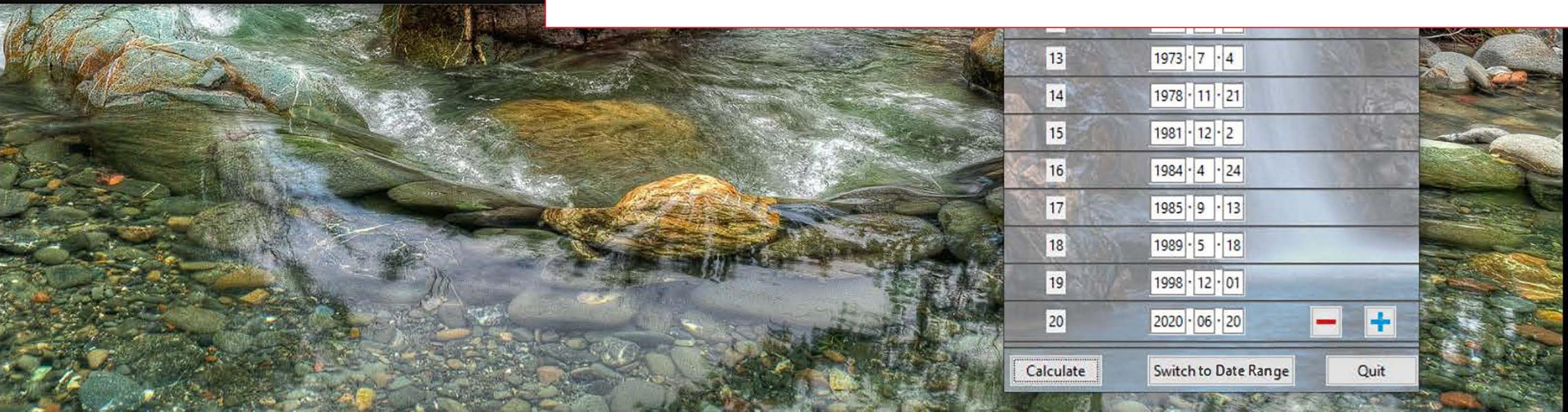
All tasks took 5 minutes and 57 seconds to complete

Ready for new input.

That's all there is to this walkthrough.

To learn how to analyze even more dates at one time, look in the Help Menu under "How to generate a single-point analysis for many dates using a spreadsheet."

The screenshot shows the Antecedent Precipitation Tool window. On the left, a table displays monthly precipitation values and seasons from May to December. A note indicates 'May' as the 'Selected Month'. Below the table, a message box shows the tool is constructing a graph, generating a figure, saving it to a PDF, and closing. At the bottom, it says it's ready for new input. On the right, another window shows a list of dates for analysis, ranging from 1935 to 2020, with a green arrow pointing to a question mark icon in the top right corner of that window.



Antecedent Precipitation Tool

Use Gridded Precipitation?

Latitude (DD): 38.5 Longitude (-DD): -121.5 Scope: Single Point

Run a single date or click "+" to add more

#	YYYY-MM-DD
1	1935 · 5 · 15
2	1940 · 2 · 29
3	1941 · 2 · 28
4	1942 · 12 · 7
5	1943 · 6 · 12
13	1973 · 7 · 4
14	1978 · 11 · 21
15	1981 · 12 · 2
16	1984 · 4 · 24
17	1985 · 9 · 13
18	1989 · 5 · 18
19	1998 · 12 · 01
20	2020 · 06 · 20

Calculate Switch to Date Range Quit

This is a screenshot of the date selection interface within the tool. It shows a list of dates from 1935 to 2020. At the bottom, there are buttons for 'Calculate', 'Switch to Date Range', and 'Quit'. A green arrow points to the question mark icon in the top right corner of the main window.



Antecedent
Precipitati...