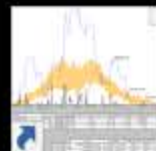


How to Generate a Single-point Analysis at a Daily Frequency for a Given Date Range



Antecedent Precipitation Tool
Version 1.0

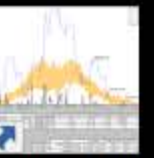
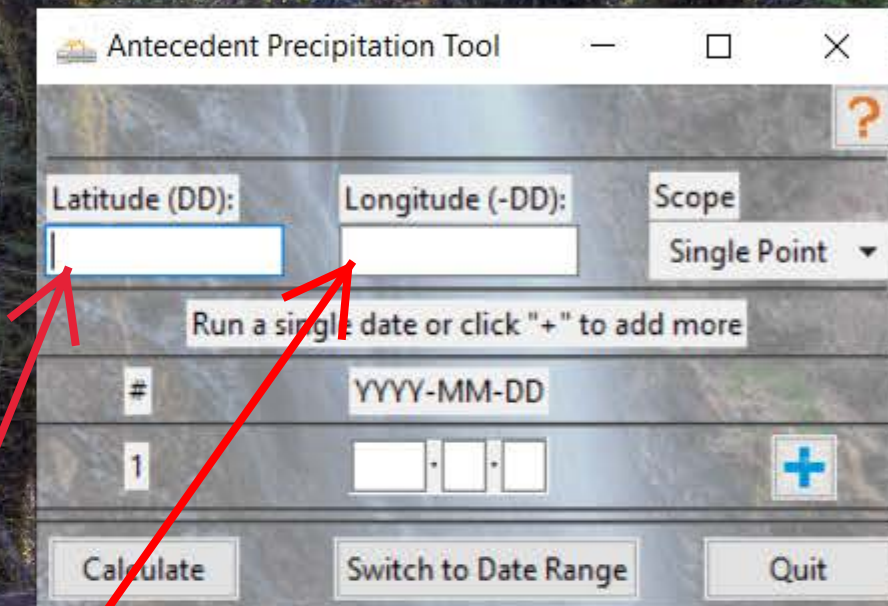
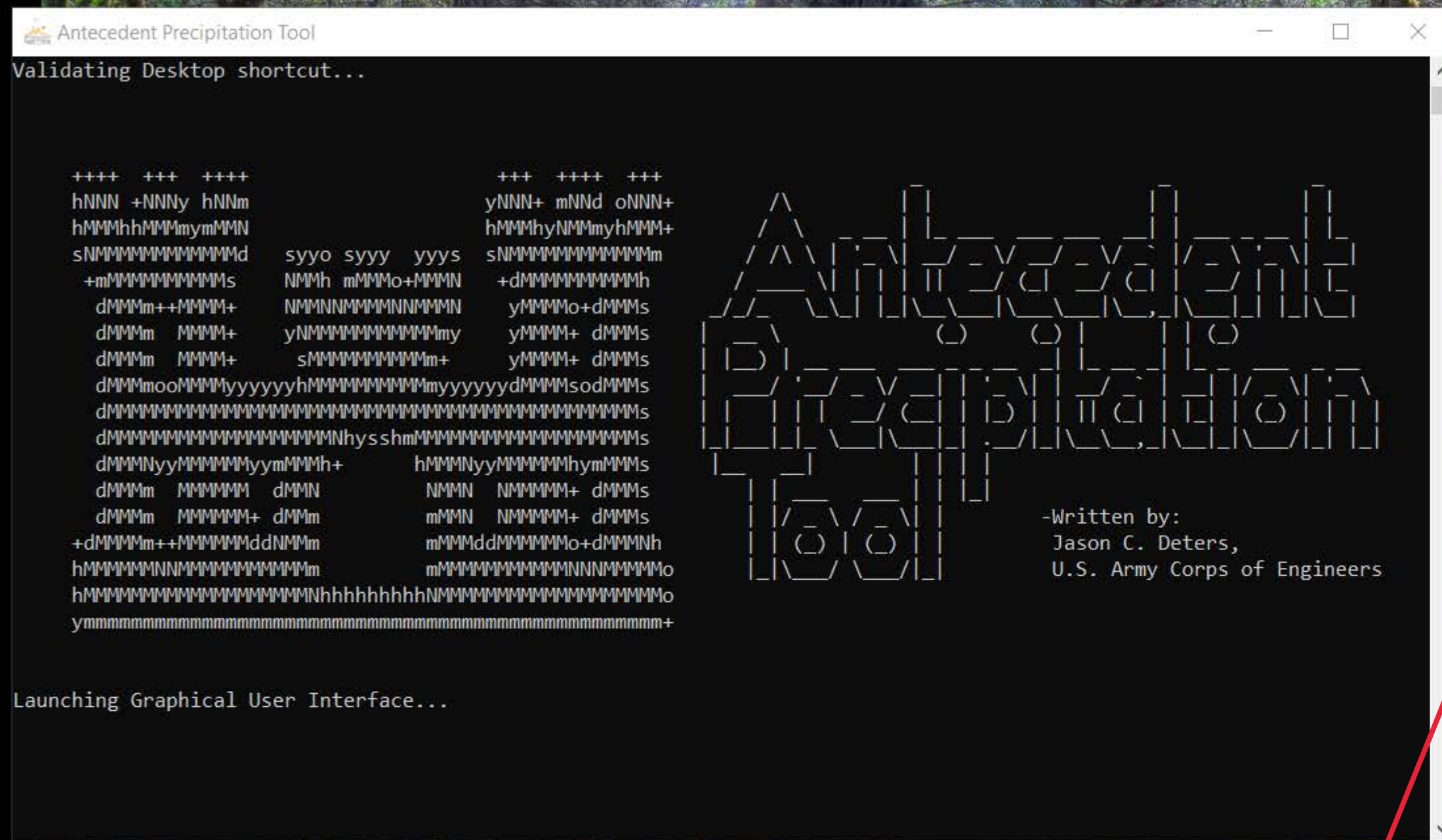
Written by Jason Deters
U.S. Army Corps of Engineers



Antecedent
Precipitation
Tool

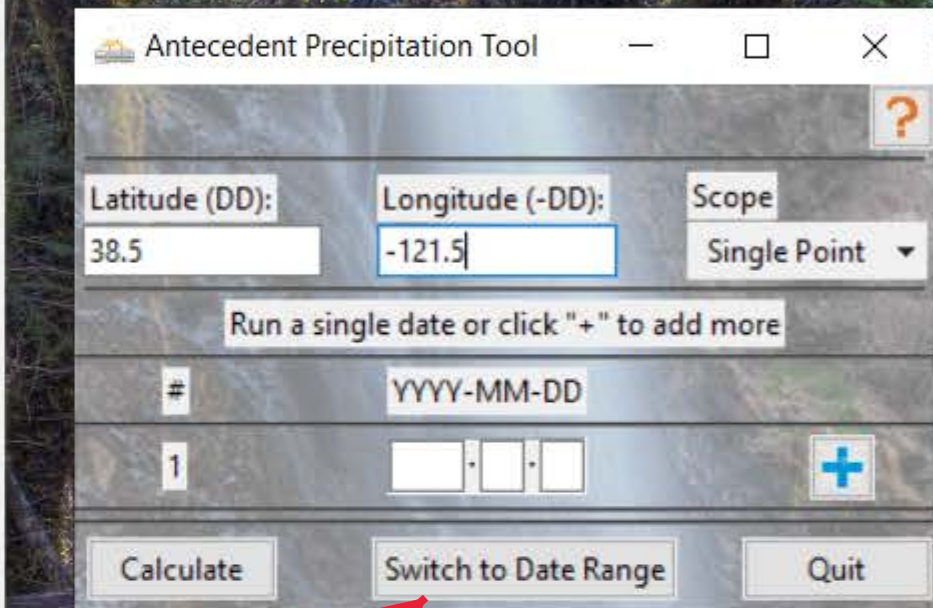
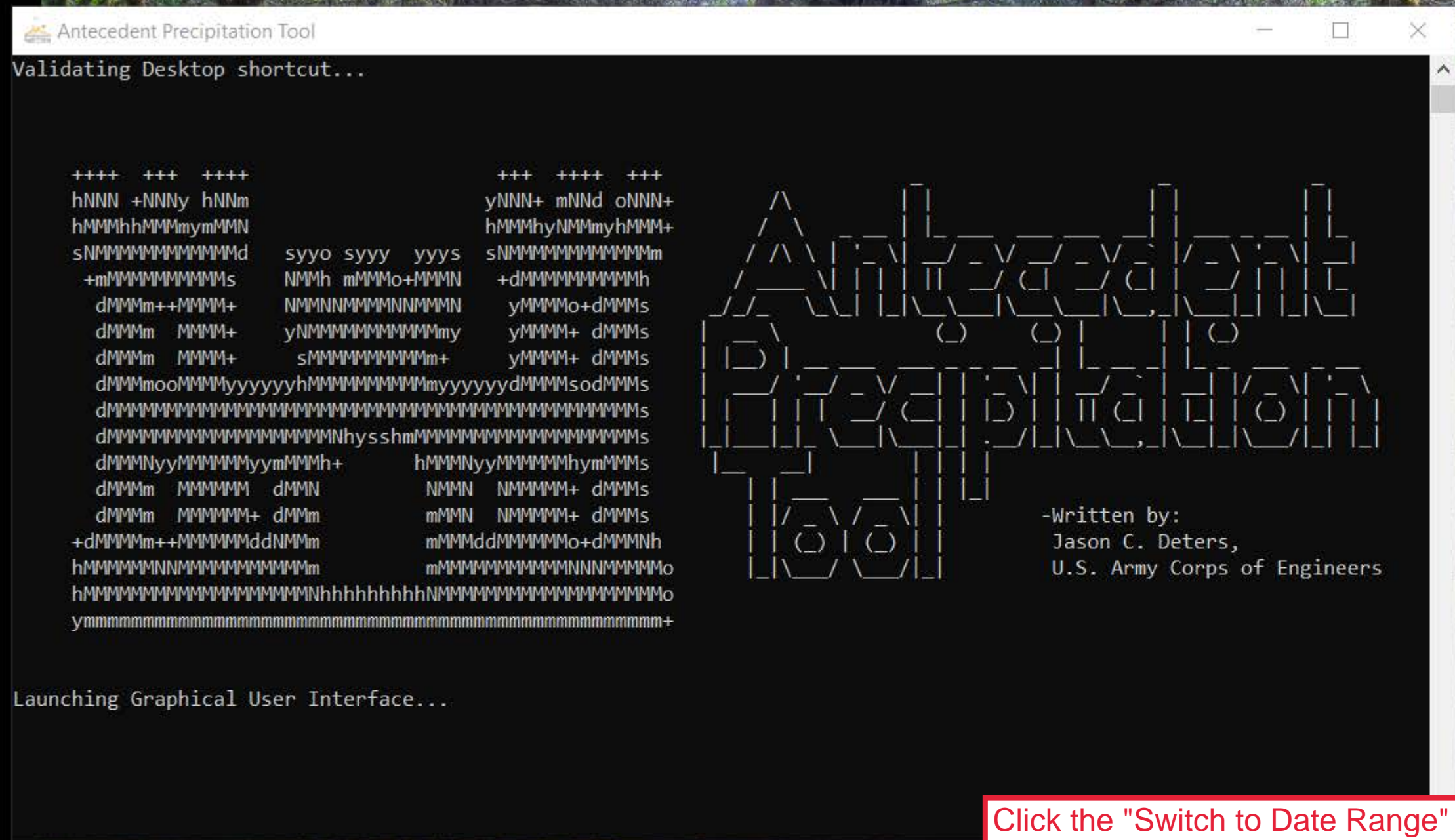


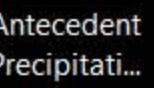
Launch
the APT

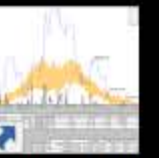
Antecedent
Precipitati...

Enter the Latitude and Longitude of the location to be analyzed in Decimal Degree format (DD.dddddd)

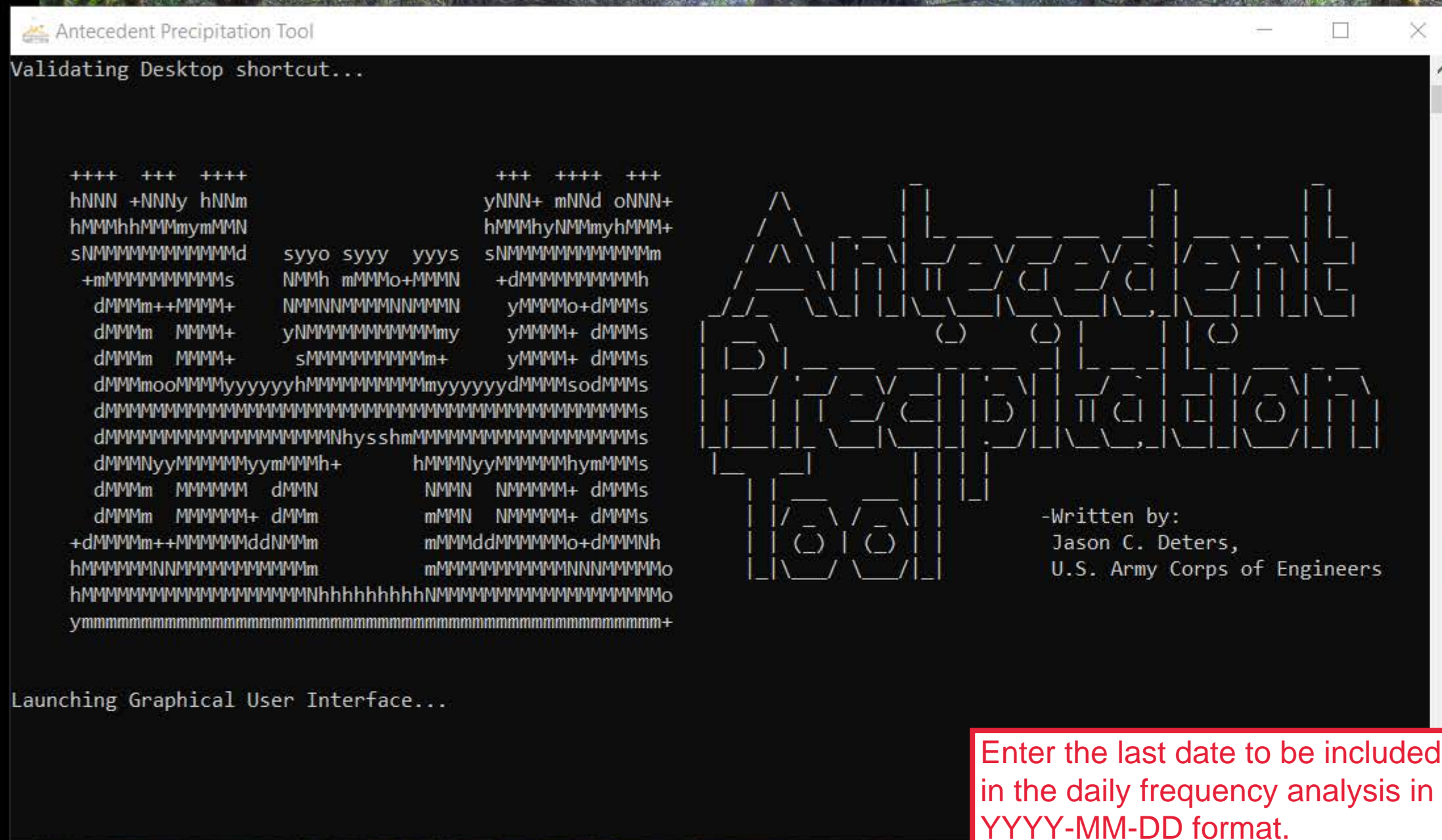
NOTE: Longitudes in the U.S. are negative, so your entry should start with a minus "-" symbol.



Antecedent
Precipitati...A large, moss-covered rock in a forest setting, with a fallen log and other rocks visible in the background.



Antecedent precipitation Tool



Antecedent Precipitation T...

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

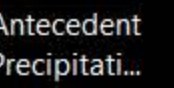
Get daily results between a Start Date and End Date

Start Date (YYYY-MM-DD): 2015 · 10 · 01

End Date (YYYY-MM-DD): · ·

Calculate Switch to CSV Input Quit

Enter the last date to be included
in the daily frequency analysis in
YYYY-MM-DD format.

A wide panoramic photograph of a rocky stream bed. Large, dark grey rocks are covered in vibrant green moss. Small, green plants grow between the rocks. The background shows a dense forest with trees and fallen branches.

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\2016-09-30.pdf
Closing figure...

Opening Batch Results CSV in new process...
Opening finalPDF in new process...
Attempting to delete temporary files...

All tasks took 14 minutes and 22 seconds to complete

Ready for new input.

Skipping right to the outputs. For more information about what happens between the "Calculate" button and the outputs, see "How to generate a single-point analysis for a given date" in the **Help Menu**

Antecedent Precipitation T... [X] [?]

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

Get daily results between a Start Date and End Date

Start Date (YYYY-MM-DD): 2015 · 10 · 01

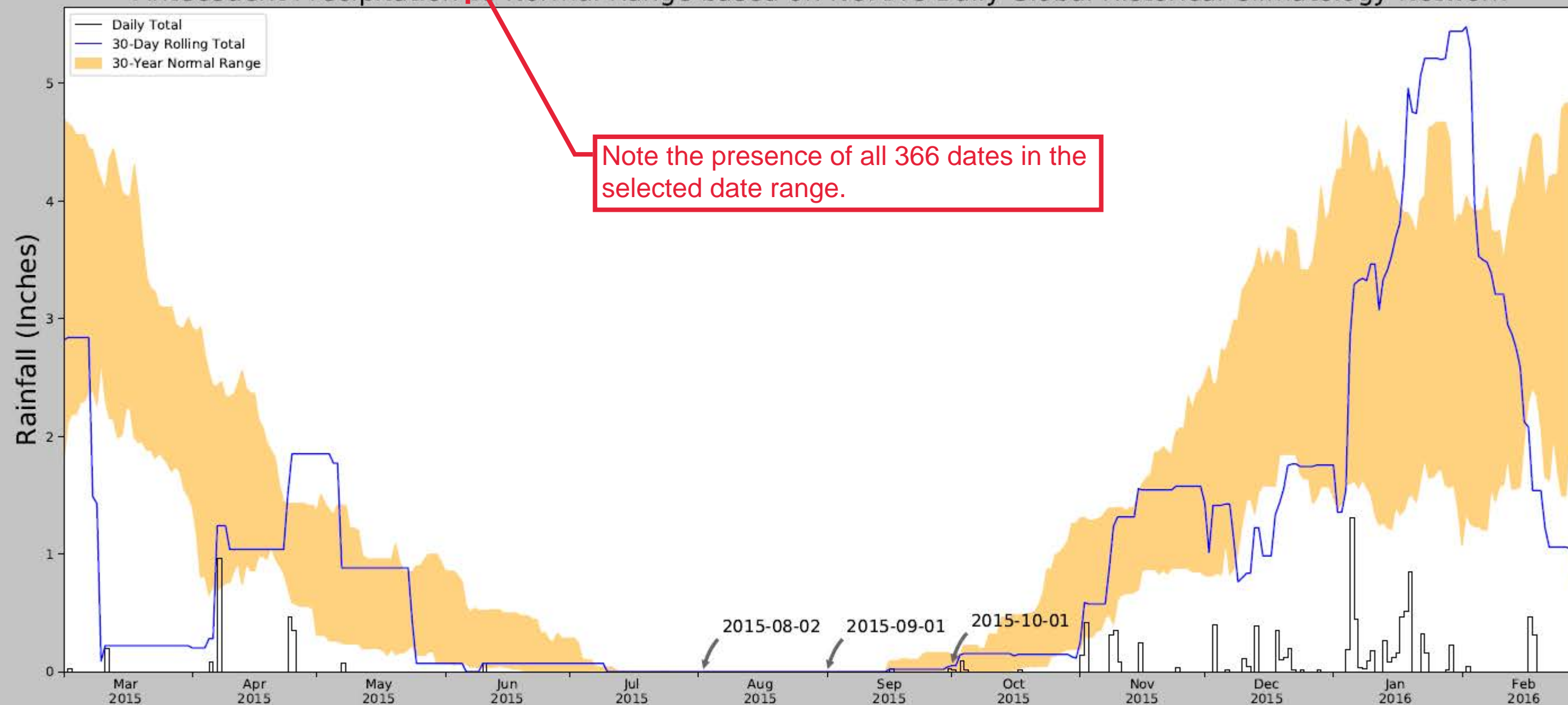
End Date (YYYY-MM-DD): 2016 · 9 · 30

Calculate Switch to CSV Input Quit





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



Coordinates	38.5, -121.5
Observation Date	2015-10-01
Elevation (ft)	7.14
Drought Index (PDSI)	Severe drought
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
2015-10-01	0.0	0.144882	0.051181	Normal	2	3	6
2015-09-01	0.0	0.0	0.0	Normal	2	2	4
2015-08-02	0.0	0.0	0.0	Normal	2	1	2
Result							Normal Conditions - 12



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO EXECUTIVE AP	38.5069, -121.495	15.092	0.548	7.952	0.251	11344	90
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	5.91	30.918	2.842	8	0



11 f_x

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Latitude	Longitude	Date	PDSI Value	PDSI Class	Season	ARC Score	Antecedent Precip Condition												
2	38.5	-121.5	10/1/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
3	38.5	-121.5	10/2/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
4	38.5	-121.5	10/3/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
5	38.5	-121.5	10/4/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
6	38.5	-121.5	10/5/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
7	38.5	-121.5	10/6/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
8	38.5	-121.5	10/7/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
9	38.5	-121.5	10/8/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
10	38.5	-121.5	10/9/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
11	38.5	-121.5	10/10/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
12	38.5	-121.5	10/11/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
13	38.5	-121.5	10/12/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
14	38.5	-121.5	10/13/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
15	38.5	-121.5	10/14/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
16	38.5	-121.5	10/15/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
17	38.5	-121.5	10/16/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
18	38.5	-121.5	10/17/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
19	38.5	-121.5	10/18/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
20	38.5	-121.5	10/19/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
21	38.5	-121.5	10/20/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
22	38.5	-121.5	10/21/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
23	38.5	-121.5	10/22/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
24	38.5	-121.5	10/23/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
25	38.5	-121.5	10/24/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
26	38.5	-121.5	10/25/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
27	38.5	-121.5	10/26/2015	-3.7	Severe drought	Dry Season	12	Normal Conditions												
28	38.5	-121.5	10/27/2015	-3.7	Severe drought	Dry Season	9	Drier than Normal												
29	38.5	-121.5	10/28/2015	-3.7	Severe drought	Dry Season	9	Drier than Normal												
30	38.5	-121.5	10/29/2015	-3.7	Severe drought	Dry Season	9	Drier than Normal												
31	38.5	-121.5	10/30/2015	-3.7	Severe drought	Dry Season	9	Drier than Normal												
32	38.5	-121.5	10/31/2015	-3.7	Severe drought	Dry Season	9	Drier than Normal												
33	38.5	-121.5	11/1/2015	-3.57	Severe drought	Wet Season	12	Normal Conditions												
34	38.5	-121.5	11/2/2015	-3.57	Severe drought	Wet Season	12	Normal Conditions												
35	38.5	-121.5	11/3/2015	-3.57	Severe drought	Wet Season	12	Normal Conditions												

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
334	38.5	-121.5	8/28/2016	-0.8	Incipient drought	Dry Season	12	Normal Conditions												
335	38.5	-121.5	8/29/2016	-0.8	Incipient drought	Dry Season	12	Normal Conditions												
336	38.5	-121.5	8/30/2016	-0.8	Incipient drought	Dry Season	12	Normal Conditions												
337	38.5	-121.5	8/31/2016	-0.8	Incipient drought	Dry Season	12	Normal Conditions												
338	38.5	-121.5	9/1/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
339	38.5	-121.5	9/2/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
340	38.5	-121.5	9/3/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
341	38.5	-121.5	9/4/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
342	38.5	-121.5	9/5/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
343	38.5	-121.5	9/6/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
344	38.5	-121.5	9/7/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
345	38.5	-121.5	9/8/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
346	38.5	-121.5	9/9/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
347	38.5	-121.5	9/10/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
348	38.5	-121.5	9/11/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
349	38.5	-121.5	9/12/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
350	38.5	-121.5	9/13/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
351	38.5	-121.5	9/14/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
352	38.5	-121.5	9/15/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
353	38.5	-121.5	9/16/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
354	38.5	-121.5	9/17/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
355	38.5	-121.5	9/18/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
356	38.5	-121.5	9/19/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
357	38.5	-121.5	9/20/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
358	38.5	-121.5	9/21/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
359	38.5	-121.5	9/22/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
360	38.5	-121.5	9/23/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
361	38.5	-121.5	9/24/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
362	38.5	-121.5	9/25/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
363	38.5	-121.5	9/26/2016	-1.19	Mild drought	Dry Season	12	Normal Conditions												
364	38.5	-121.5	9/27/2016	-1.1																

-1.19	Mild drought	Dry Season	12	Normal Co
-1.19	Mild drought	Dry Season	12	Normal Co
-1.19	Mild drought	Dry Season	12	Normal Co

