

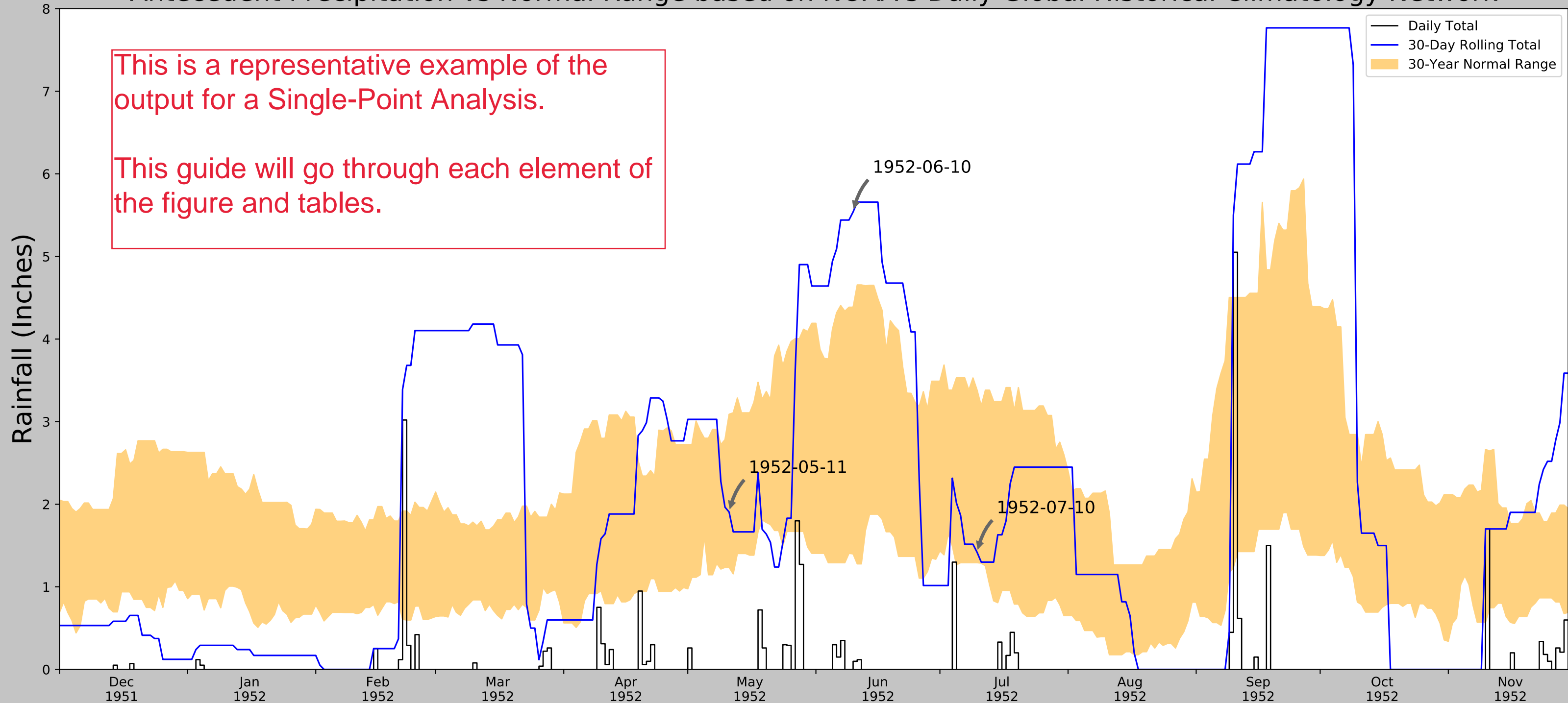
# How to Read the Output of a Single-Point Analysis



**Antecedent Precipitation Tool**  
Version 1.0

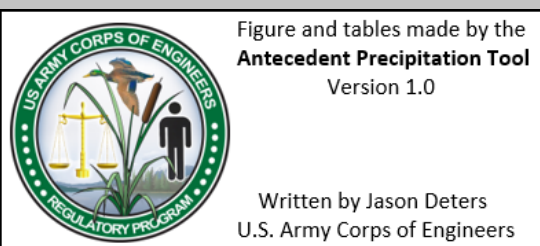
Written by Jason Deters  
U.S. Army Corps of Engineers

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



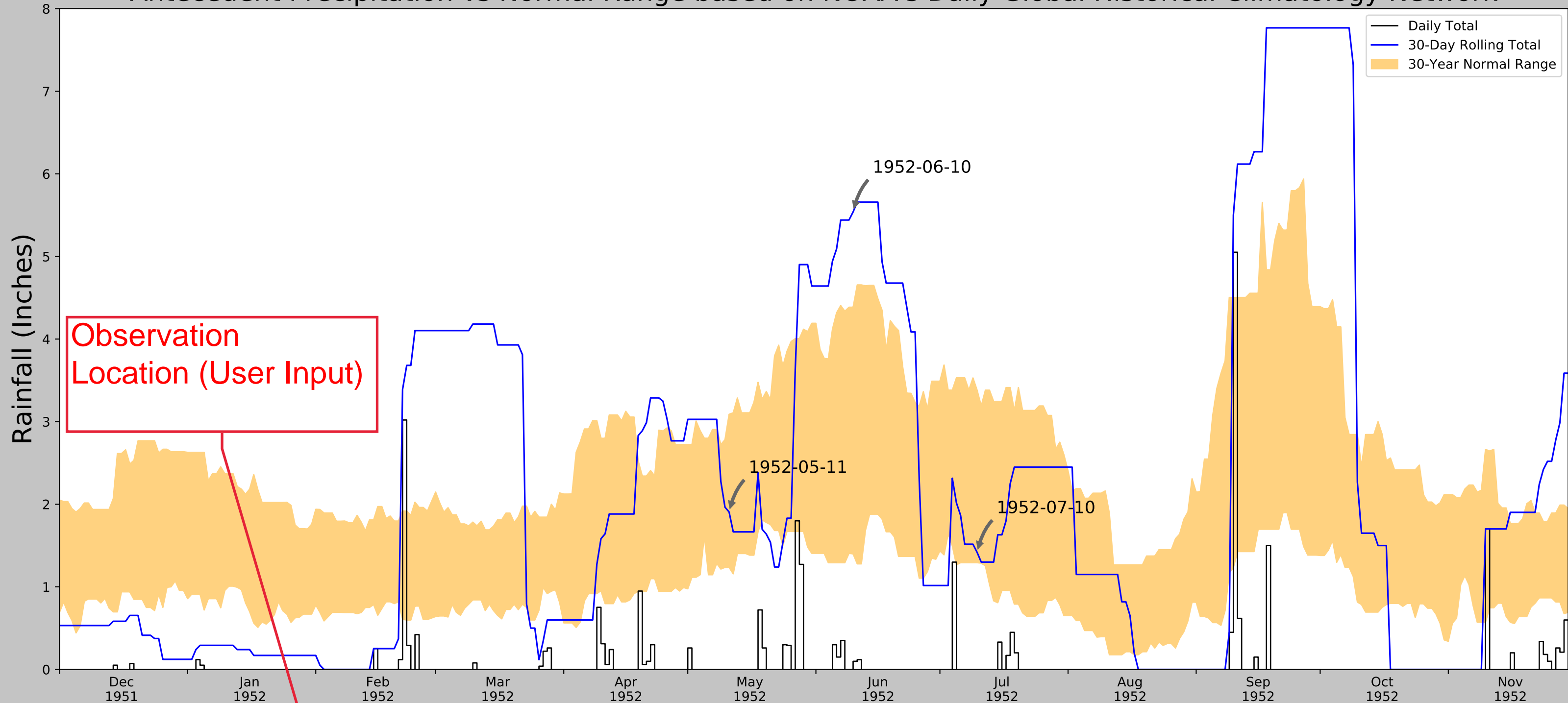
Coordinates	28.44571, -98.529303
Observation Date	1952-07-10
Elevation (ft)	248.76
Drought Index (PDSI)	Severe drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
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1952-06-10	1.399213	4.385433	5.53937	Wet	3	2	6
1952-05-11	1.235039	3.08937	1.905512	Normal	2	1	2
Result							Normal Conditions - 14



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
WHITSETT 3 SW	28.6333, -98.2667	209.974	20.544	38.786	10.042	11312	90
FOWLERTON	28.5033, -98.8392	299.869	19.238	51.109	9.64	12	0
THREE RIVERS	28.4667, -98.1833	150.919	21.068	97.841	11.542	28	0

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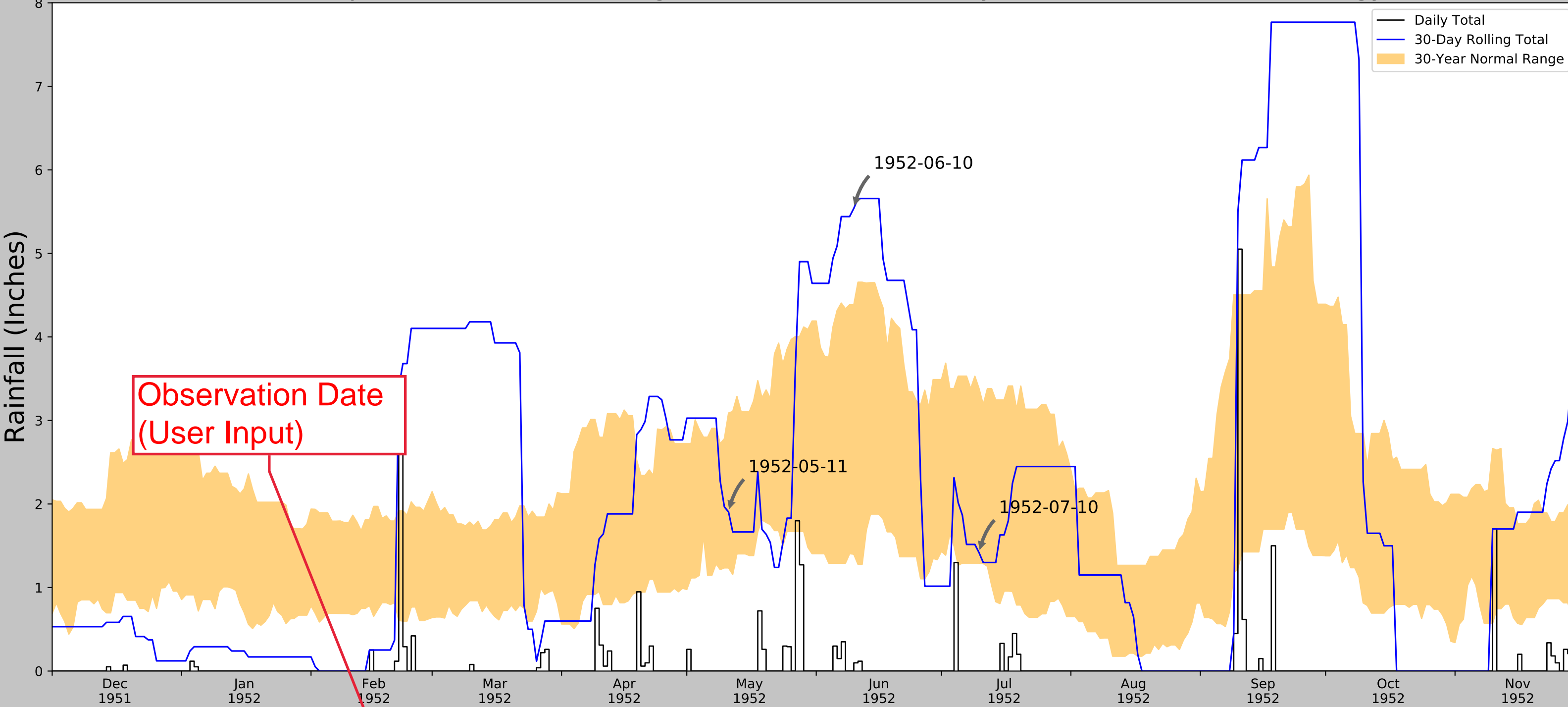


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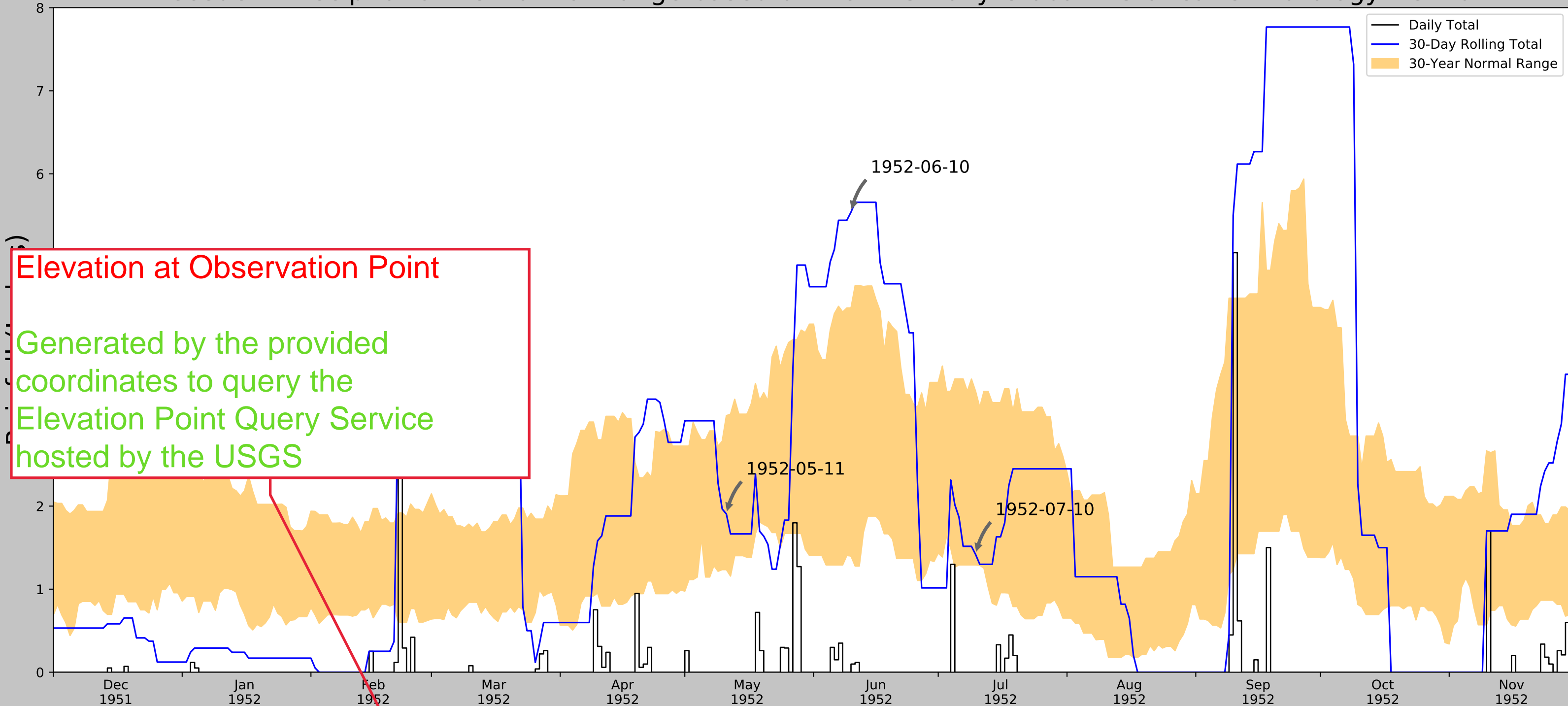


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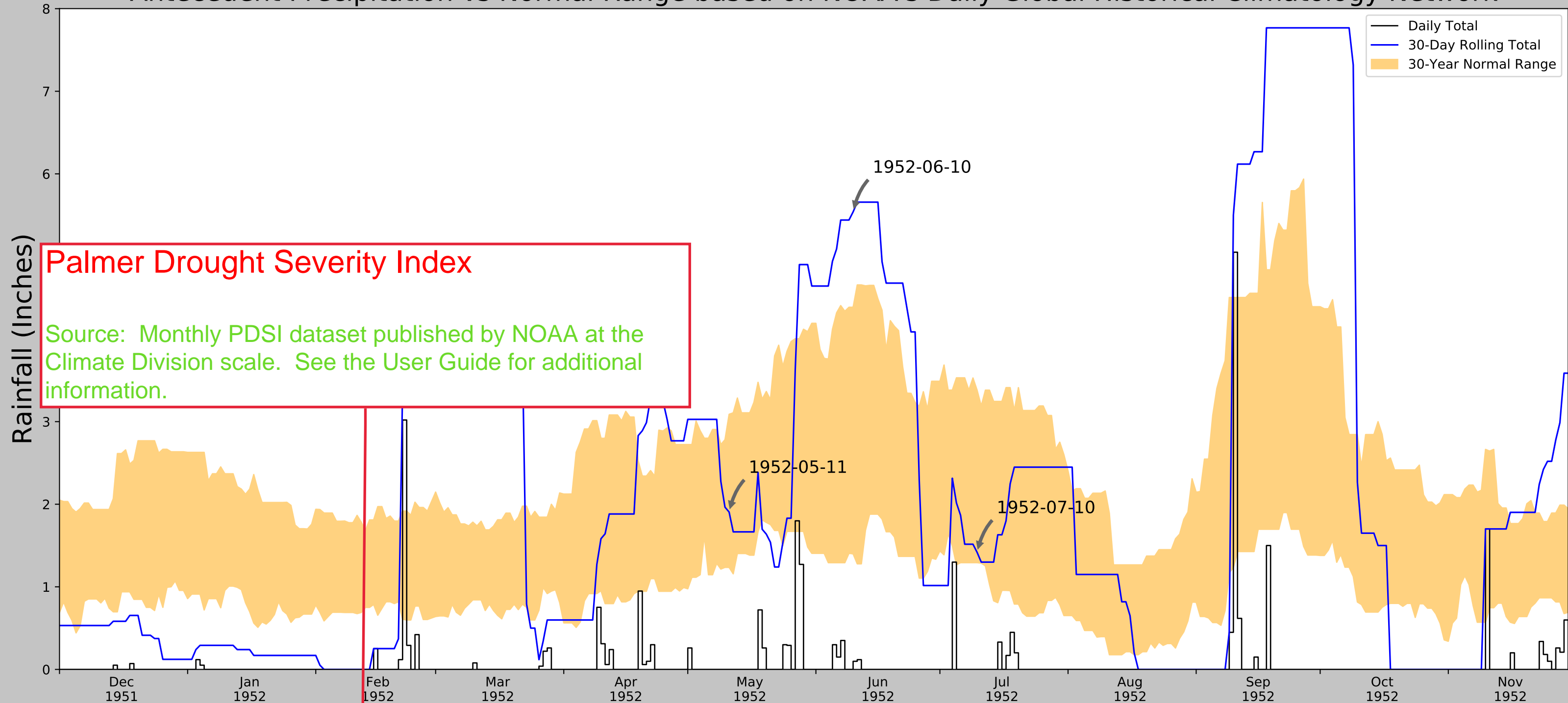


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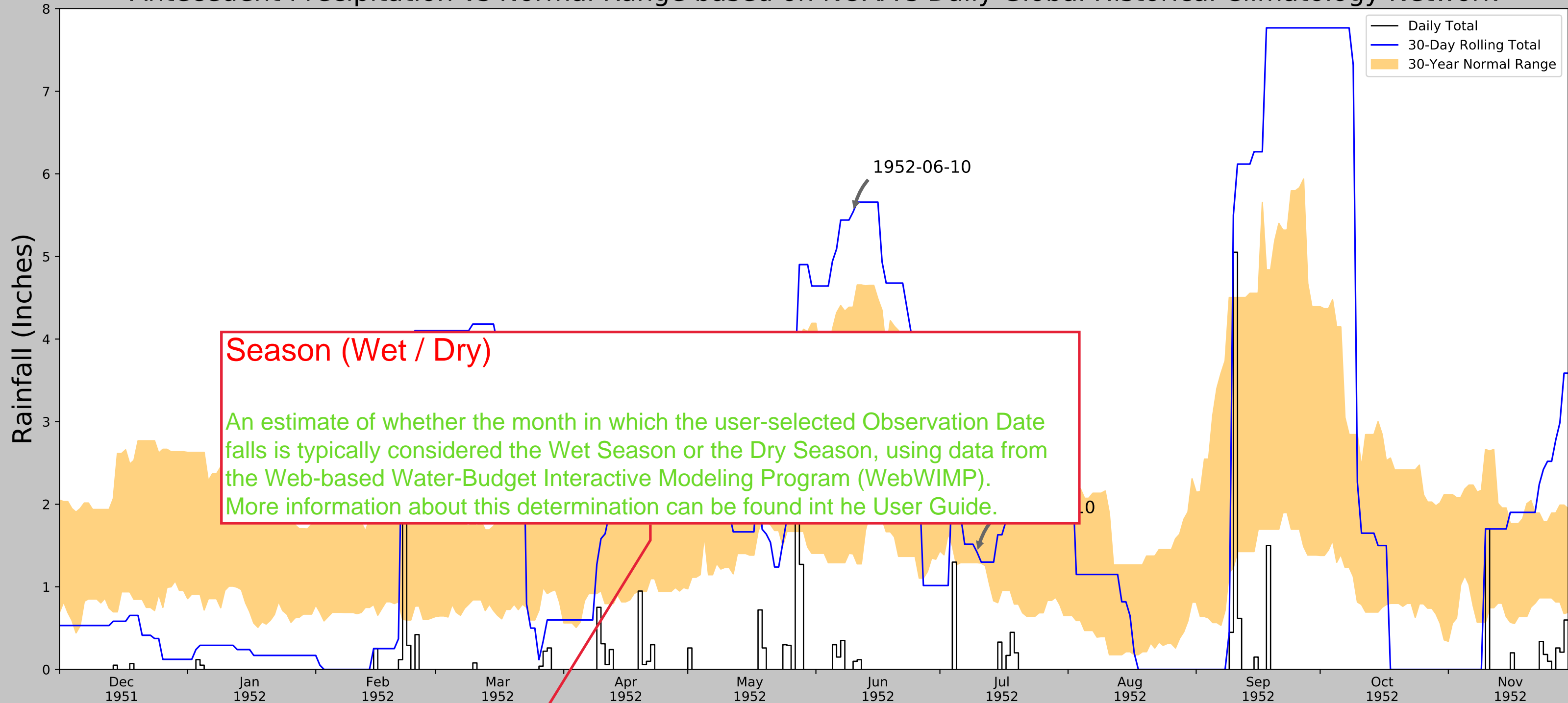
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## Season (Wet / Dry)

An estimate of whether the month in which the user-selected Observation Date falls is typically considered the Wet Season or the Dry Season, using data from the Web-based Water-Budget Interactive Modeling Program (WebWIMP). More information about this determination can be found in the User Guide.

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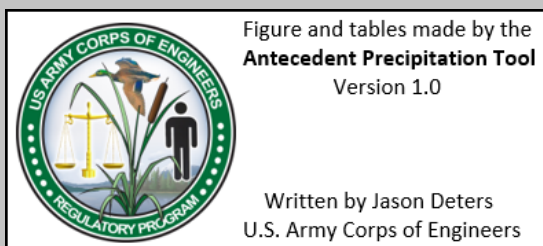
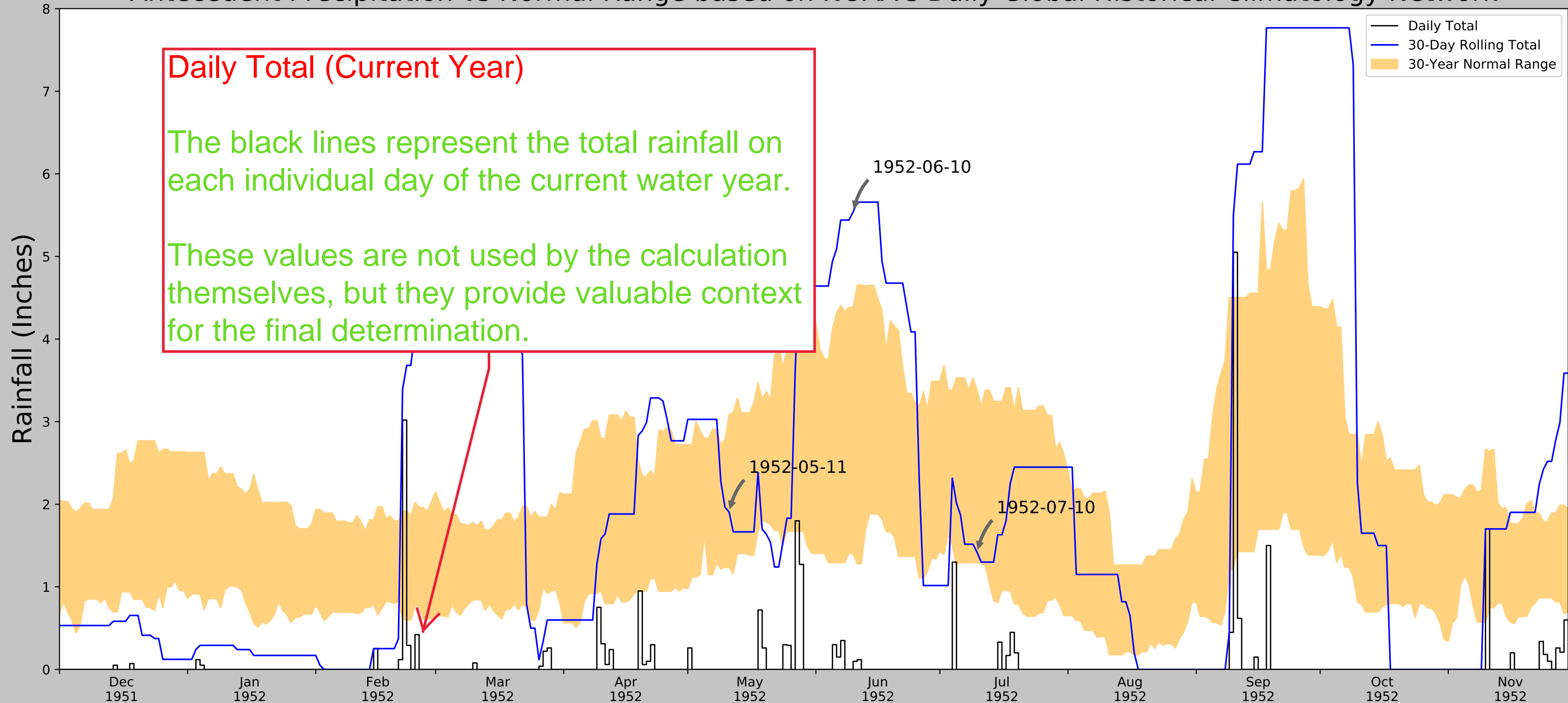


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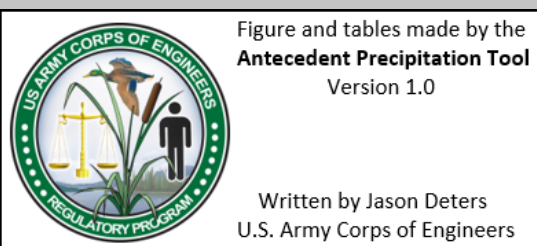


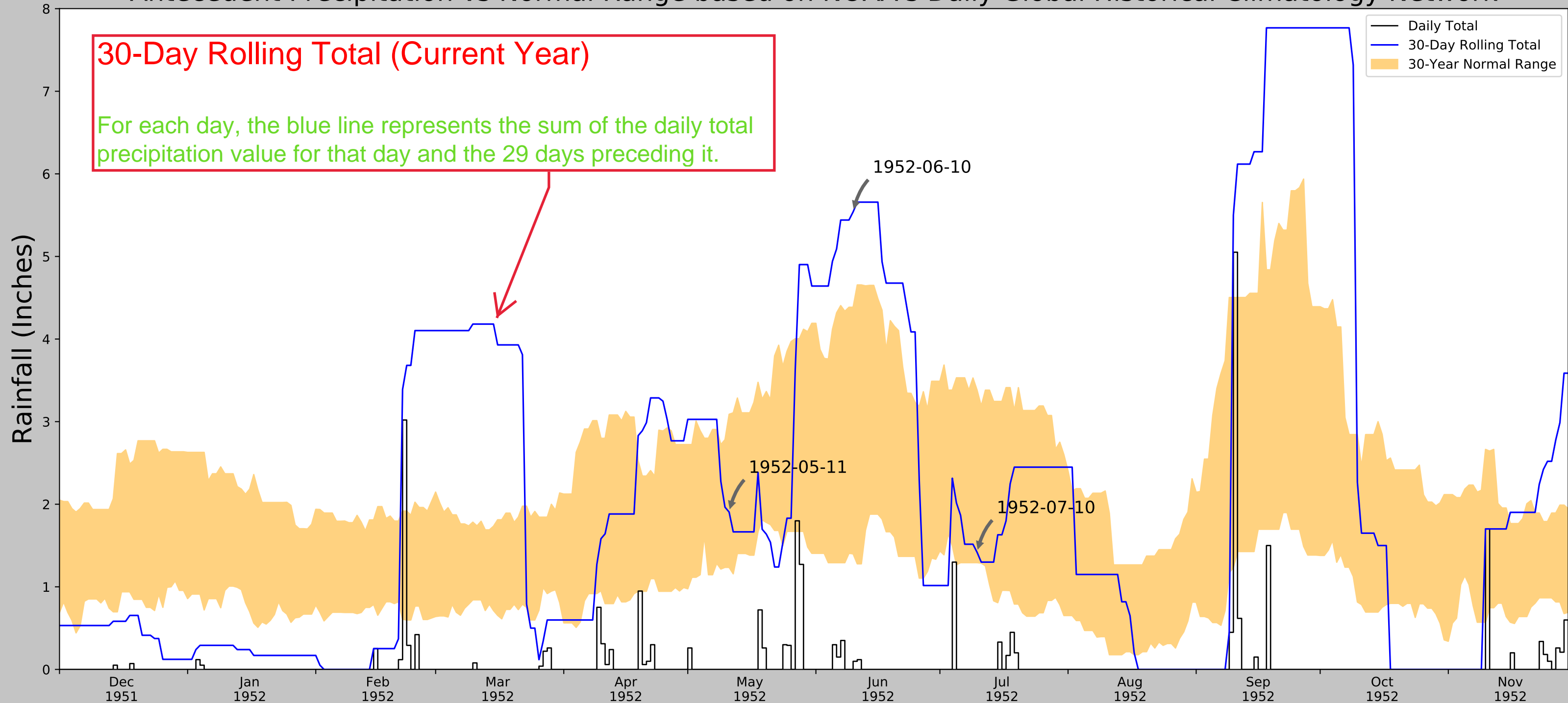
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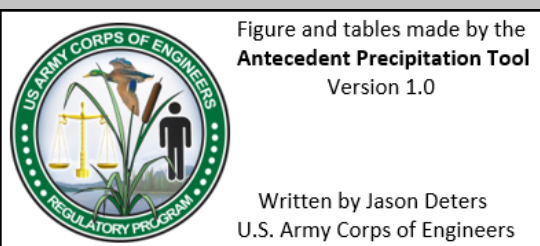


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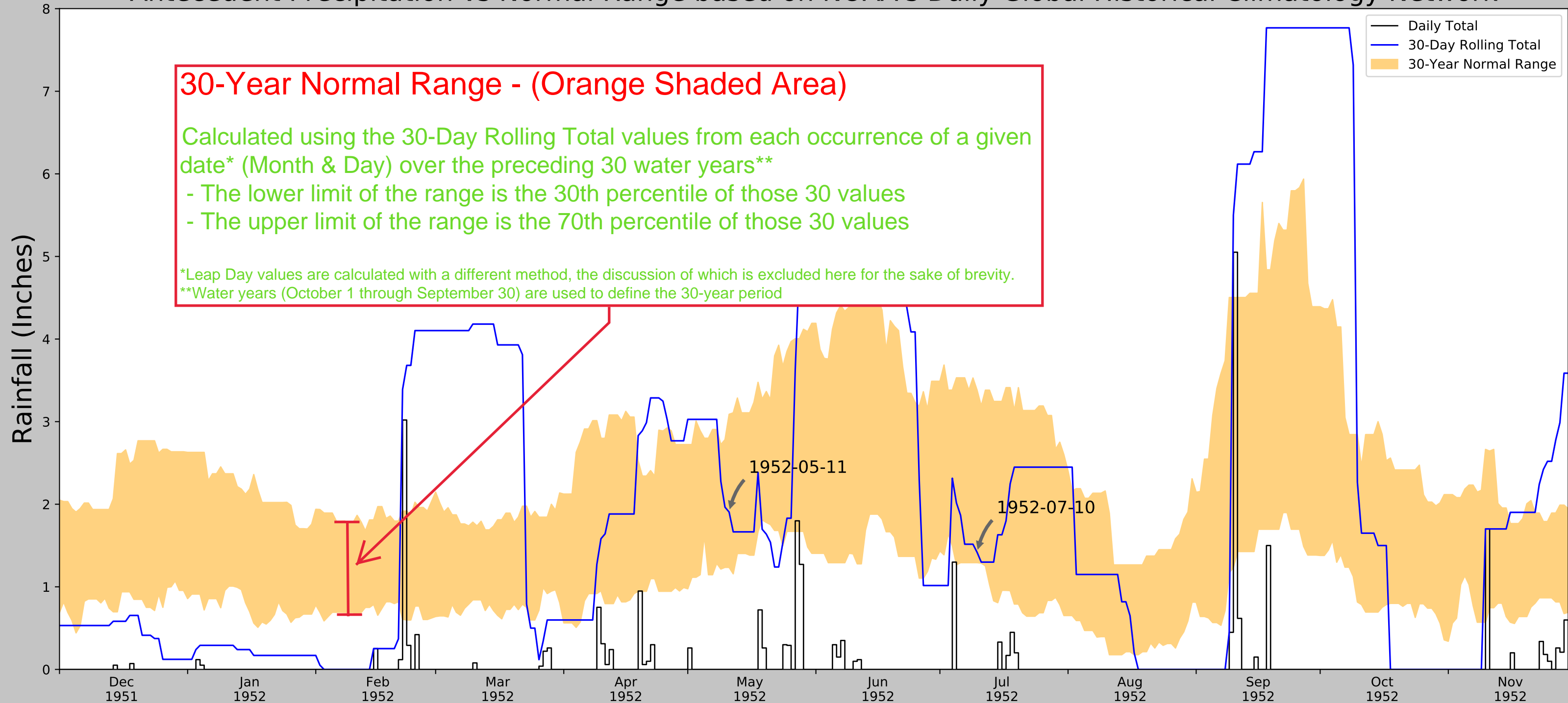
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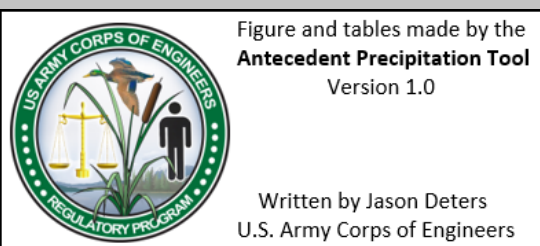
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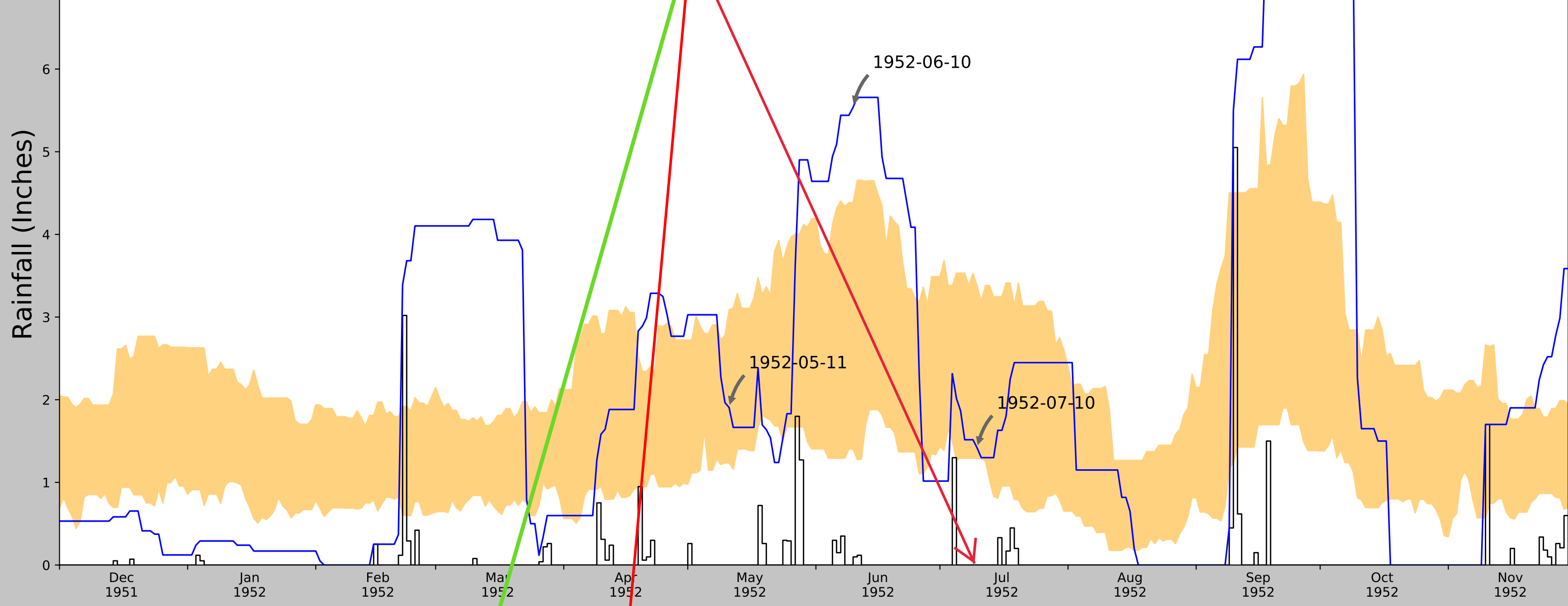


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Antecedent Condition Calculation

First 30-Day Period - End Date

NOTE: The end date of the first 30-day period will always be the Observation Date



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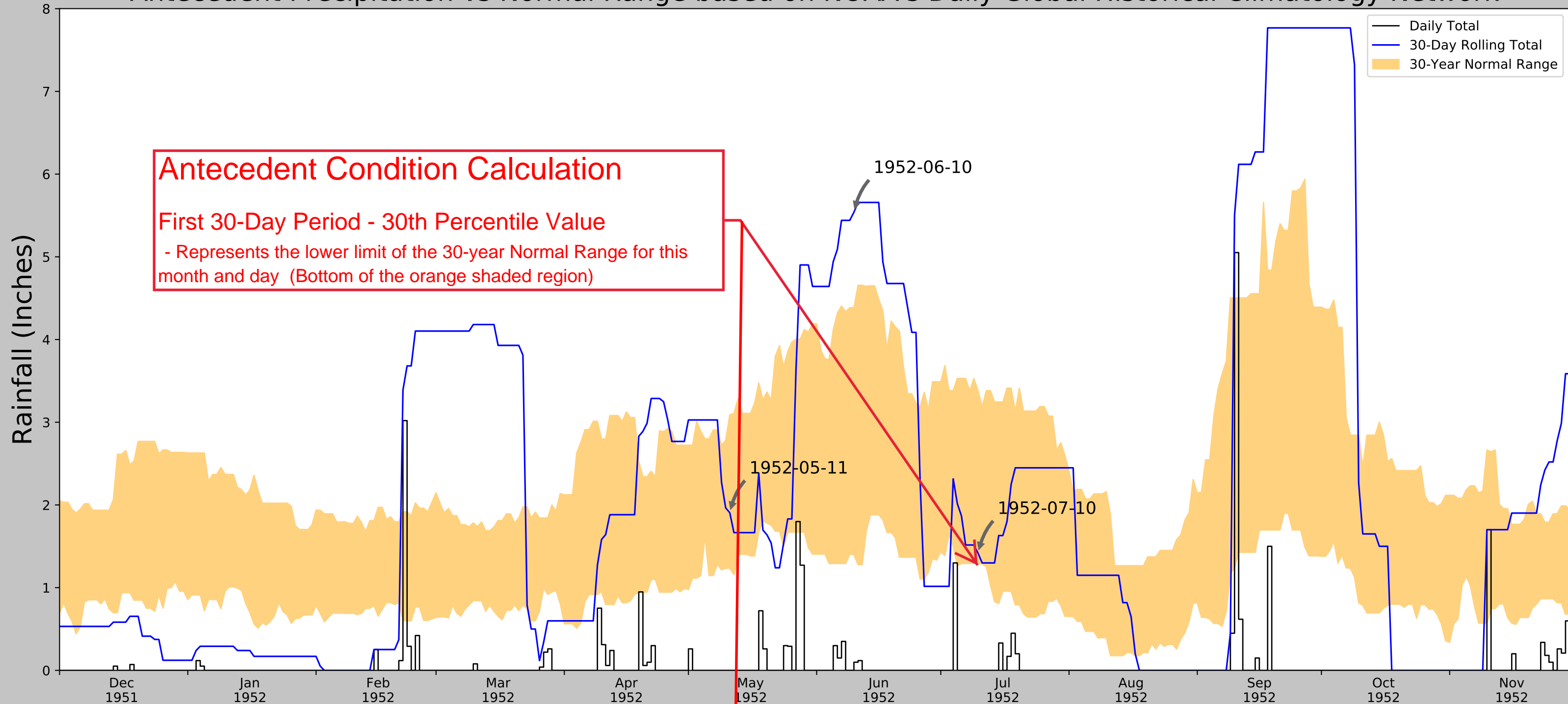


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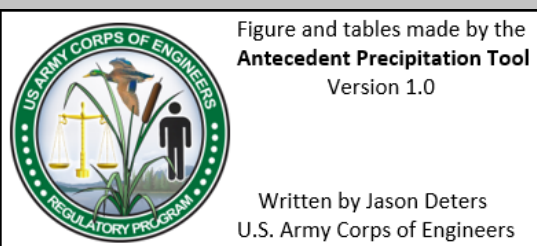
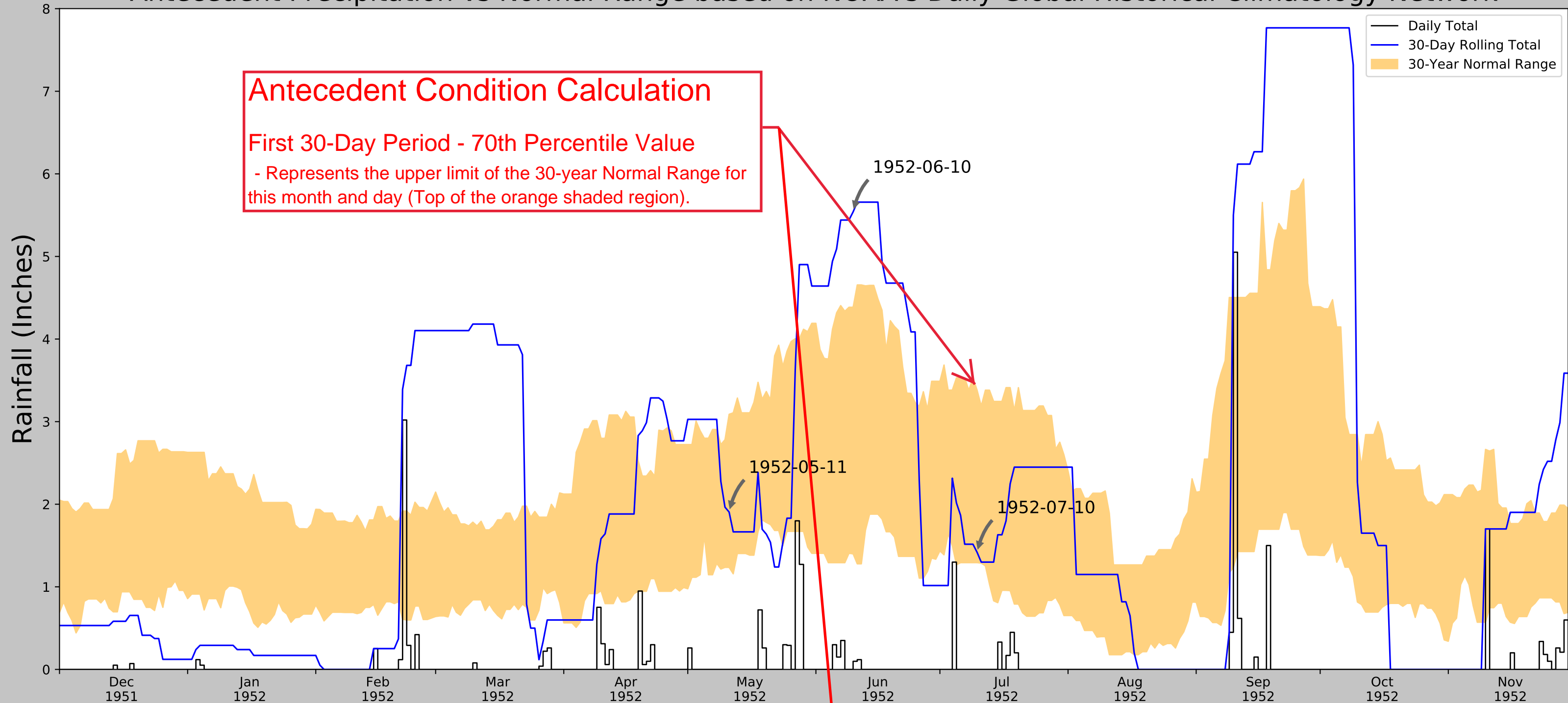


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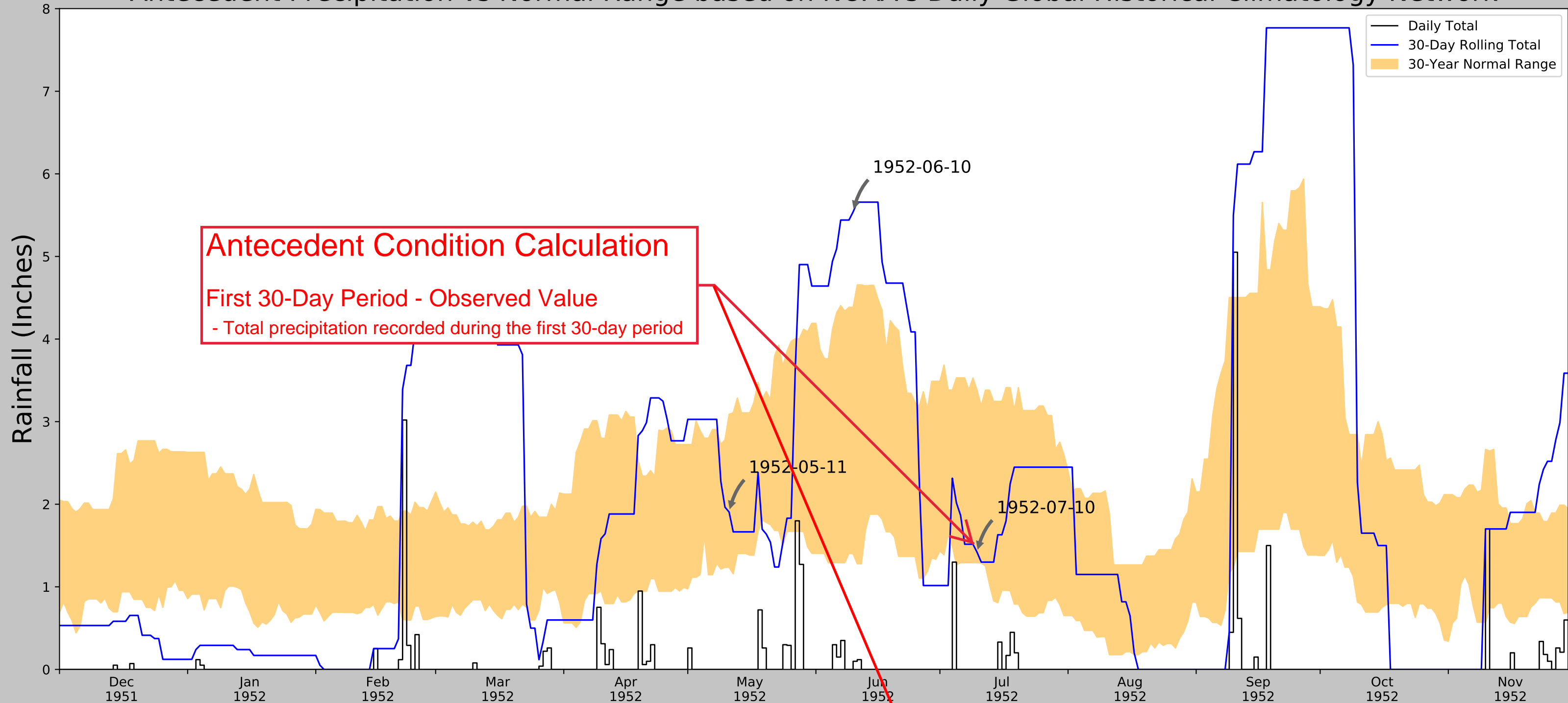
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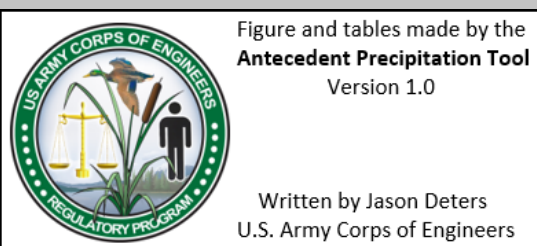


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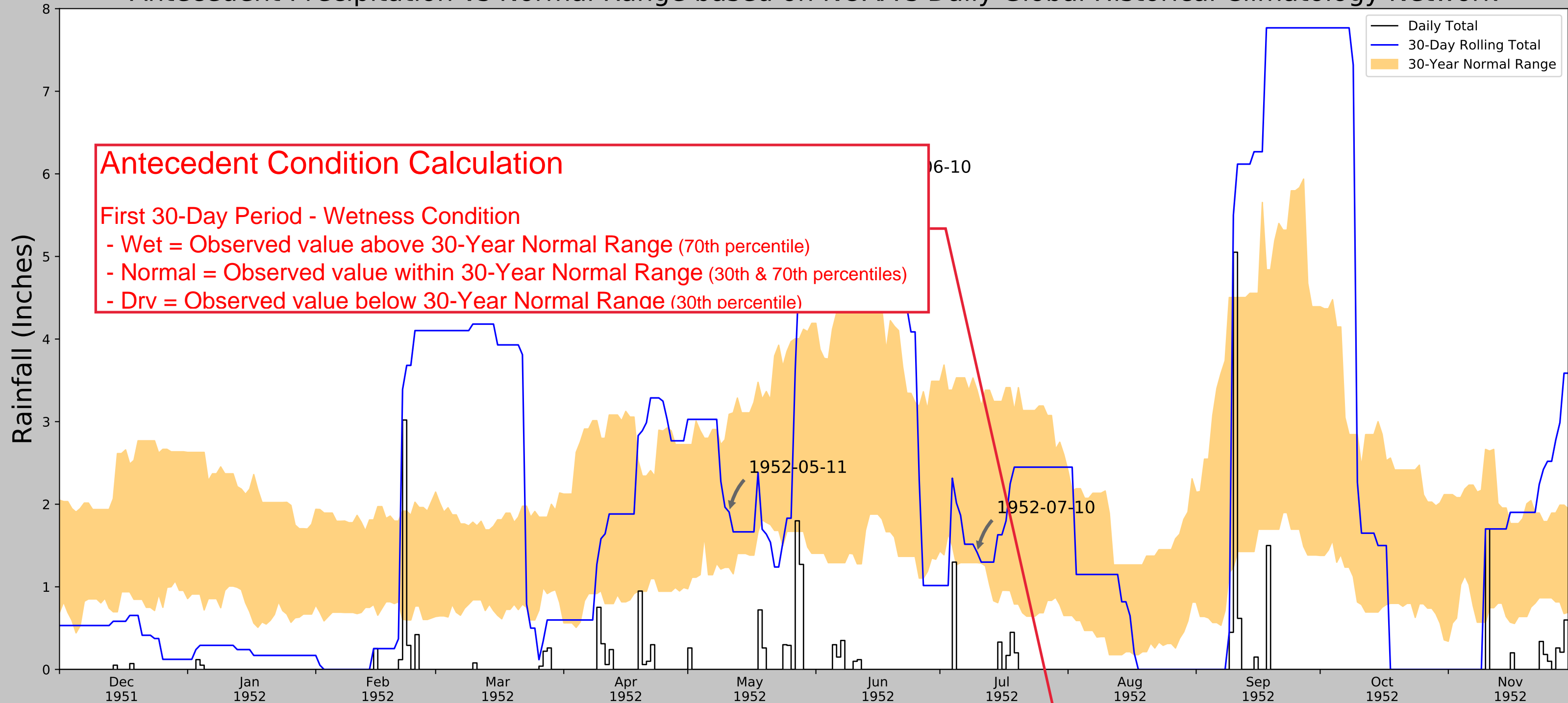
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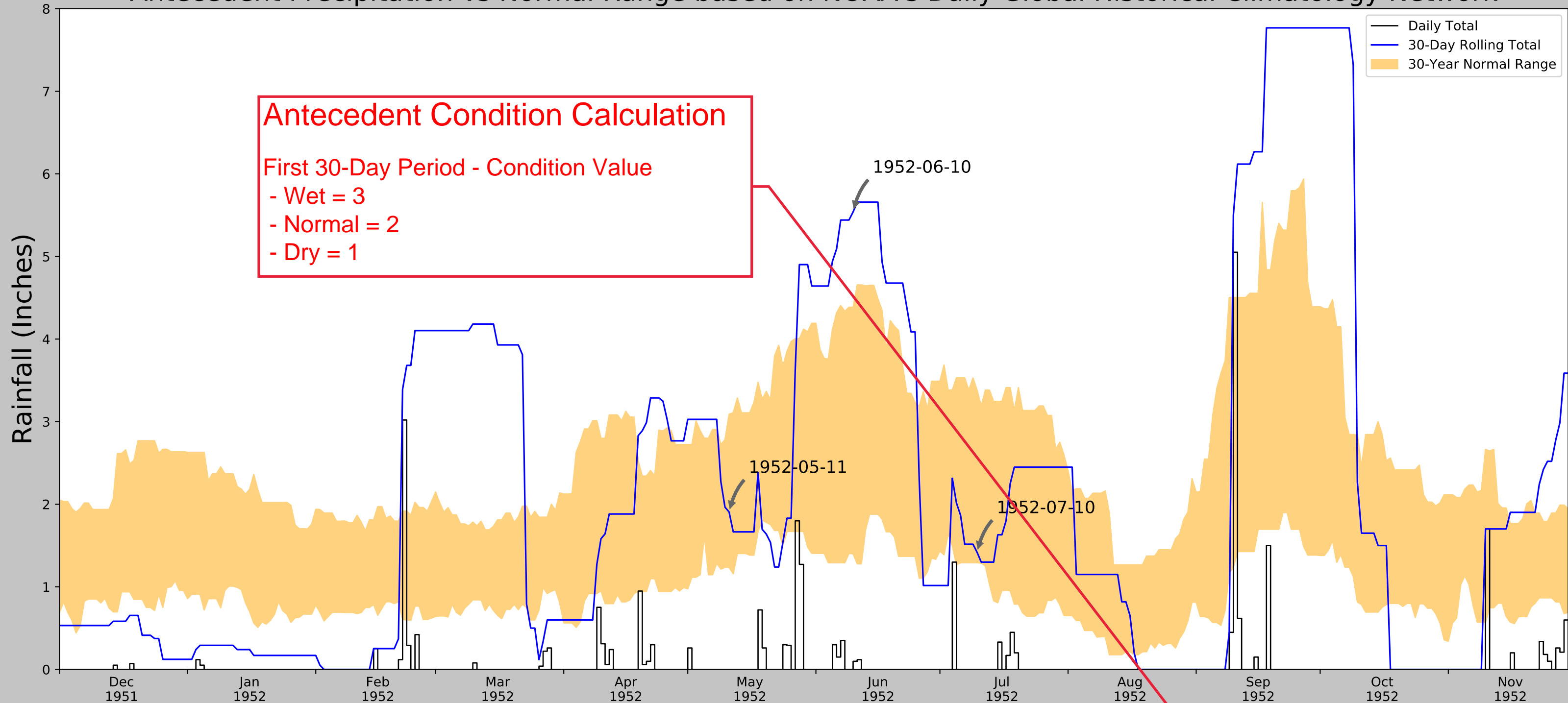


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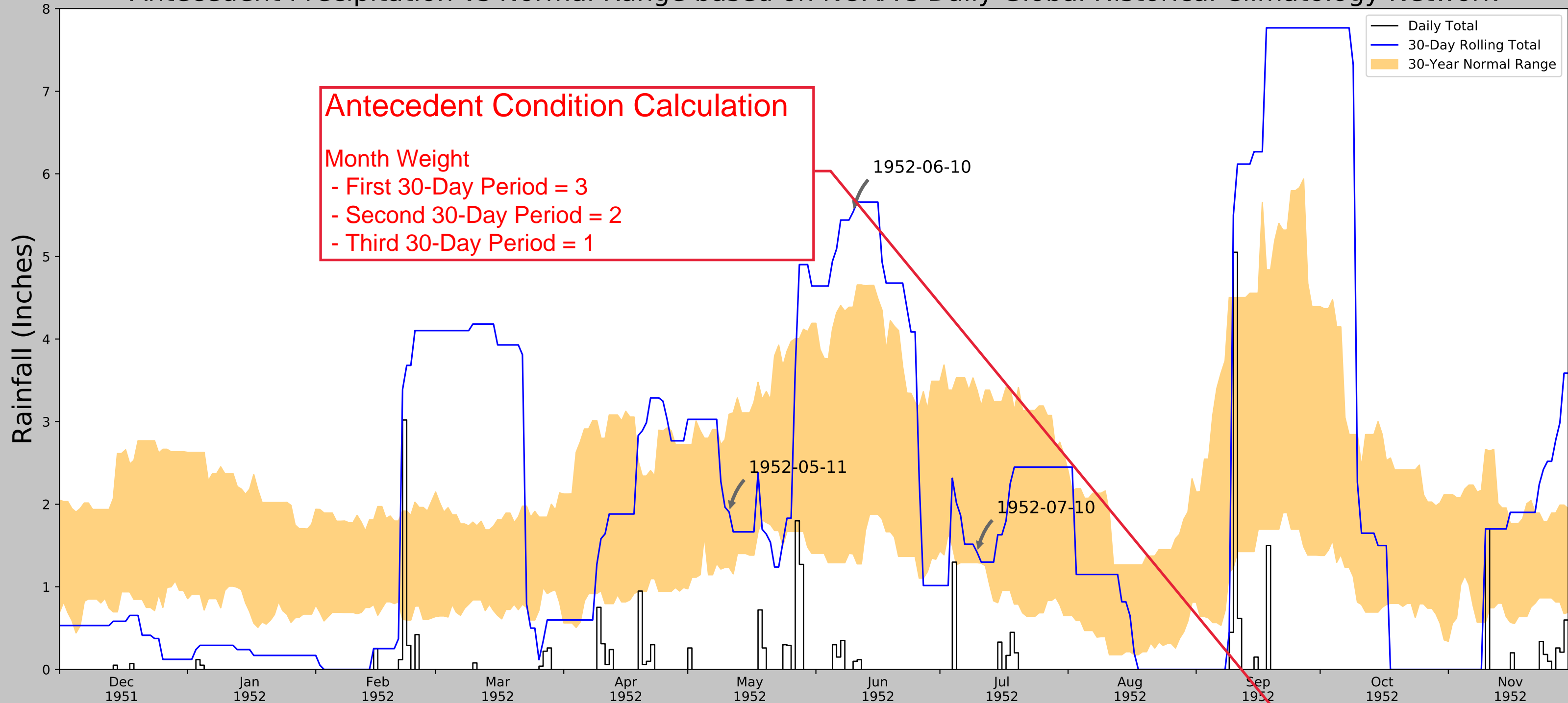


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30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
1952-07-10	1.292126	3.381496	1.417323	Normal	2	3	6
1952-06-10	1.399213	4.385433	5.53937	Wet	3	2	6
1952-05-11	1.235039	3.08937	1.905512	Normal	2	1	2
Result							Normal Conditions - 14

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
WHITSETT 3 SW	28.6333, -98.2667	209.974	20.544	38.786	10.042	11312	90
FOWLERTON	28.5033, -98.8392	299.869	19.238	51.109	9.64	12	0
THREE RIVERS	28.4667, -98.1833	150.919	21.068	97.841	11.542	28	0

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



Coordinates	28.44571, -98.529303
Observation Date	1952-07-10
Elevation (ft)	248.76
Drought Index (PDSI)	Severe drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
1952-07-10	1.292126	3.381496	1.417323	Normal	2	3	6
1952-06-10	1.399213	4.385433	5.53937	Wet	3	2	6
1952-05-11	1.235039	3.08937	1.905512	Normal	2	1	2
Result							Normal Conditions - 14

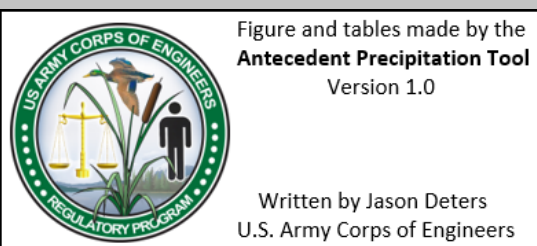
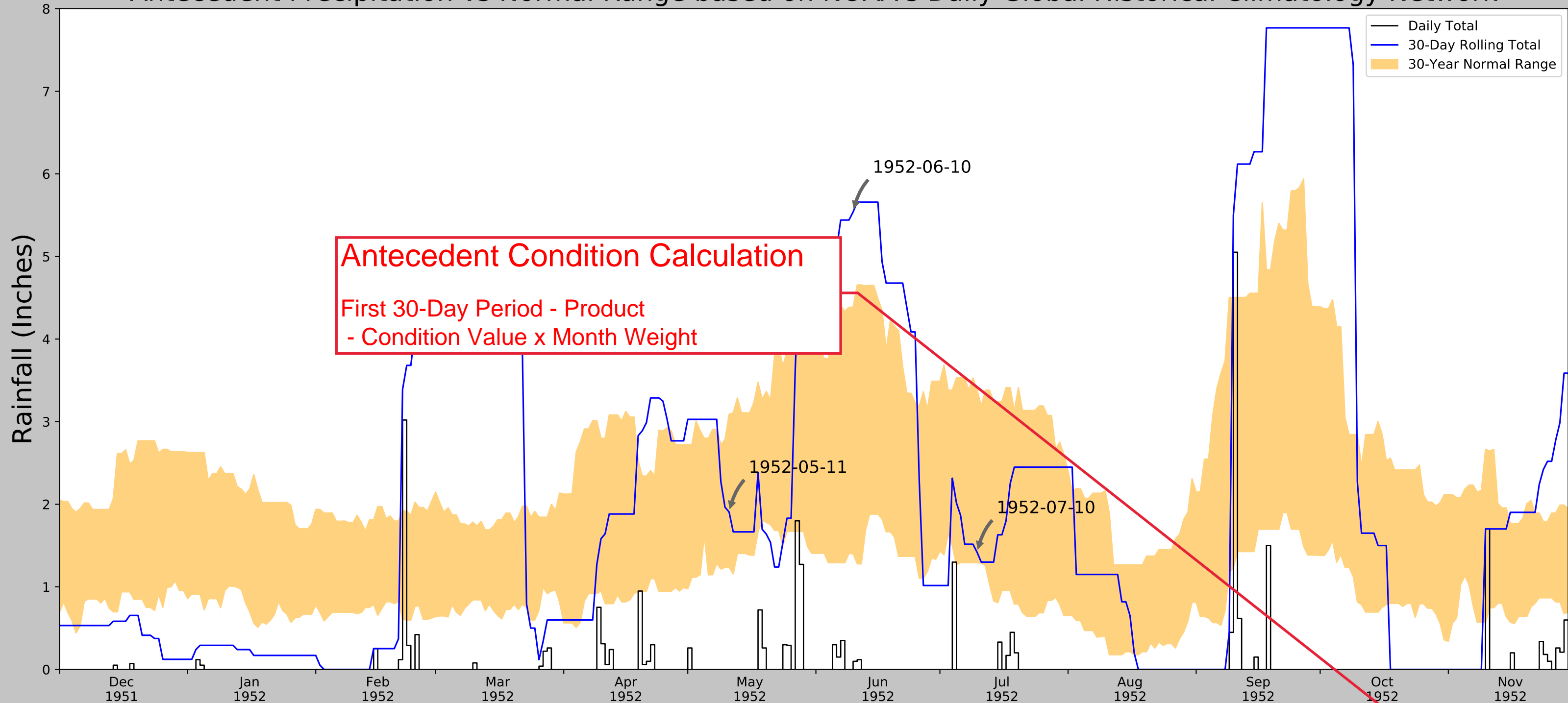


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Written by Jason Deters  
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
WHITSETT 3 SW	28.6333, -98.2667	209.974	20.544	38.786	10.042	11312	90
FOWLERTON	28.5033, -98.8392	299.869	19.238	51.109	9.64	12	0
THREE RIVERS	28.4667, -98.1833	150.919	21.068	97.841	11.542	28	0

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

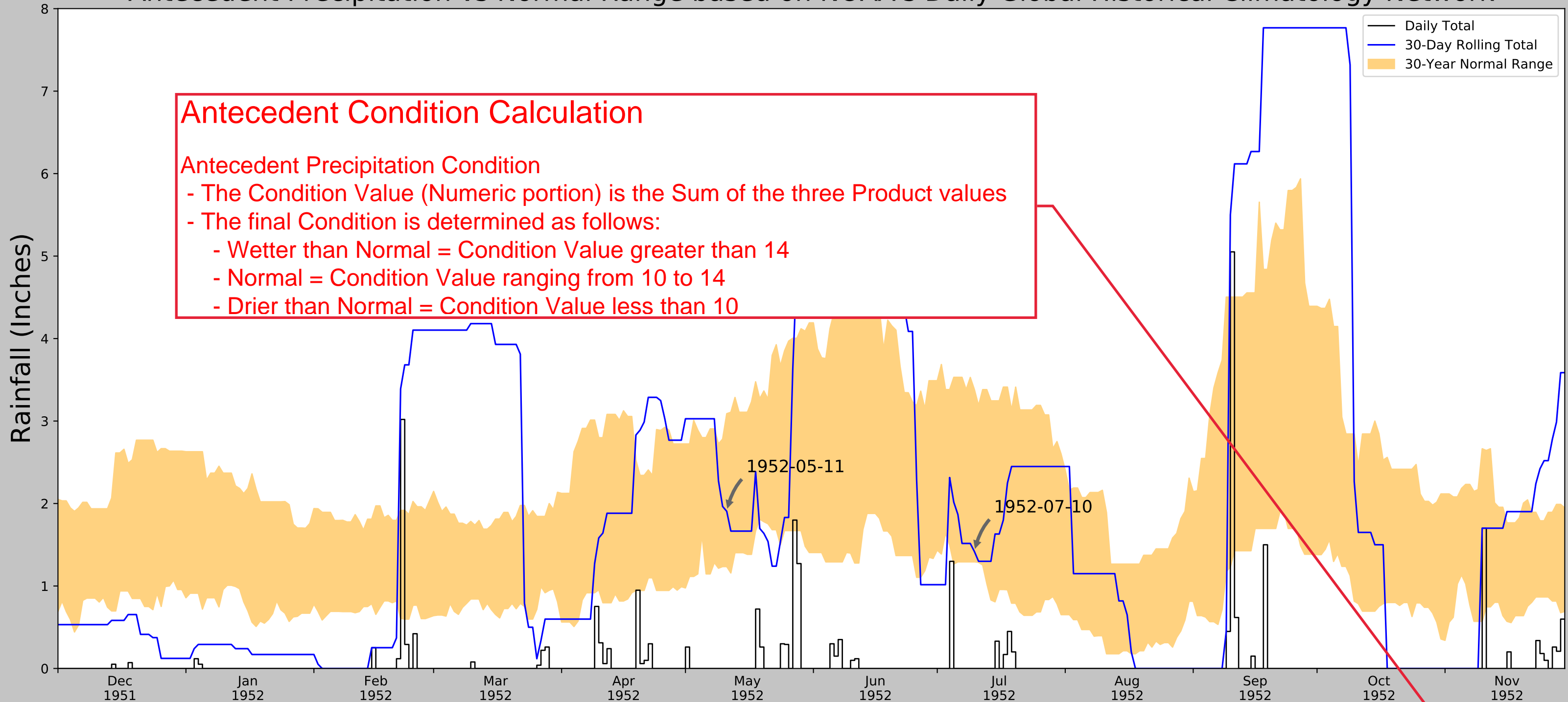


Coordinates	28.44571, -98.529303
Observation Date	1952-07-10
Elevation (ft)	248.76
Drought Index (PDSI)	Severe drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
1952-07-10	1.292126	3.381496	1.417323	Normal	2	3	6
1952-06-10	1.399213	4.385433	5.53937	Wet	3	2	6
1952-05-11	1.235039	3.08937	1.905512	Normal	2	1	2
Result							Normal Conditions - 14

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
WHITSETT 3 SW	28.6333, -98.2667	209.974	20.544	38.786	10.042	11312	90
FOWLERTON	28.5033, -98.8392	299.869	19.238	51.109	9.64	12	0
THREE RIVERS	28.4667, -98.1833	150.919	21.068	97.841	11.542	28	0

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



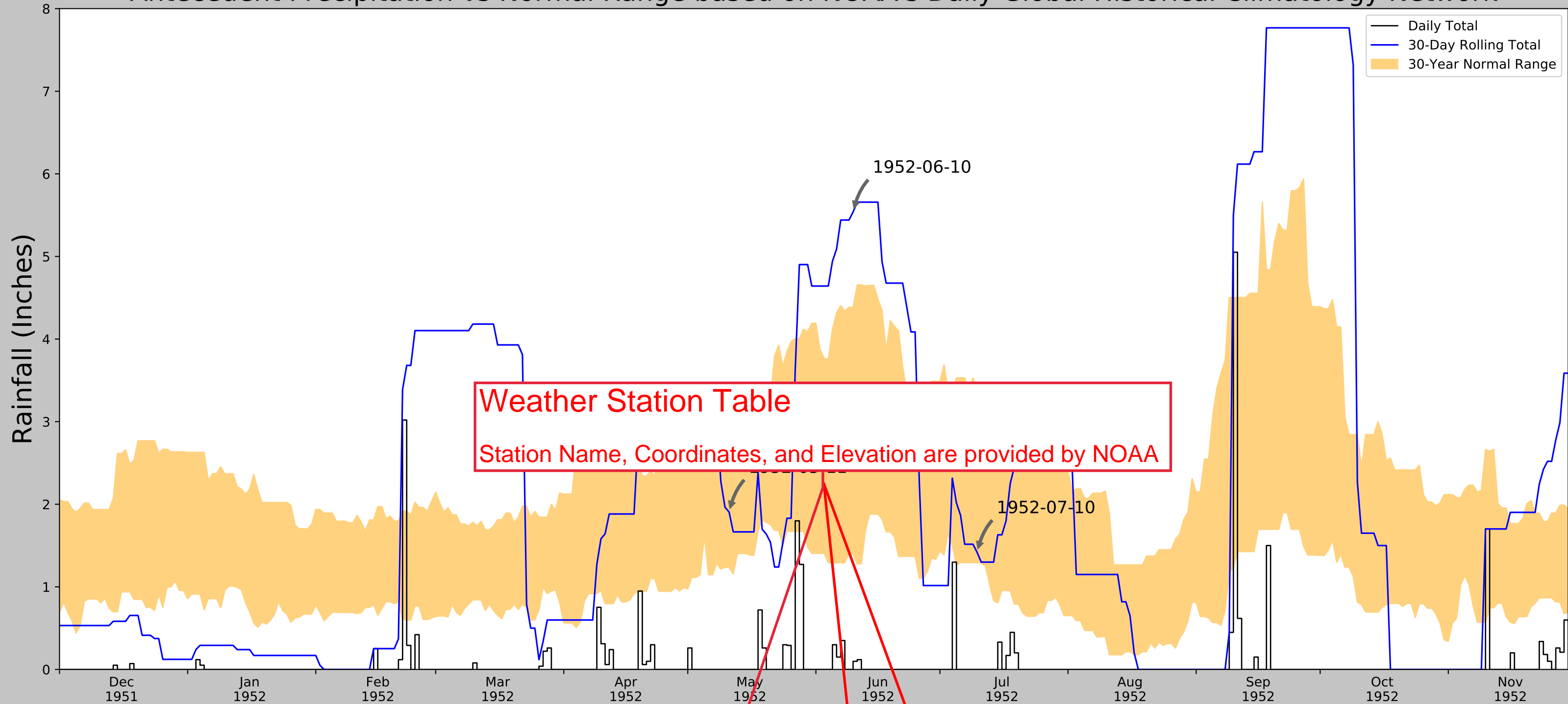
Coordinates	28.44571, -98.529303
Observation Date	1952-07-10
Elevation (ft)	248.76
Drought Index (PDSI)	Severe drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

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1952-06-10	1.399213	4.385433	5.53937	Wet	3	2	6
1952-05-11	1.235039	3.08937	1.905512	Normal	2	1	2
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
WHITSETT 3 SW	28.6333, -98.2667	209.974	20.544	38.786	10.042	11312	90
FOWLERTON	28.5033, -98.8392	299.869	19.238	51.109	9.64	12	0
THREE RIVERS	28.4667, -98.1833	150.919	21.068	97.841	11.542	28	0

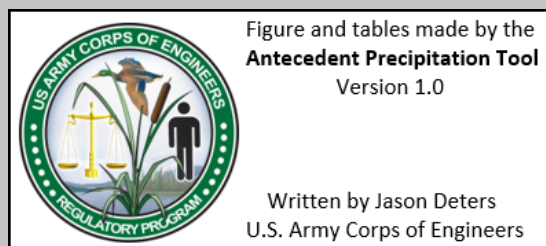


# Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	28.44571, -98.529303
Observation Date	1952-07-10
Elevation (ft)	248.76
Drought Index (PDSI)	Severe drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

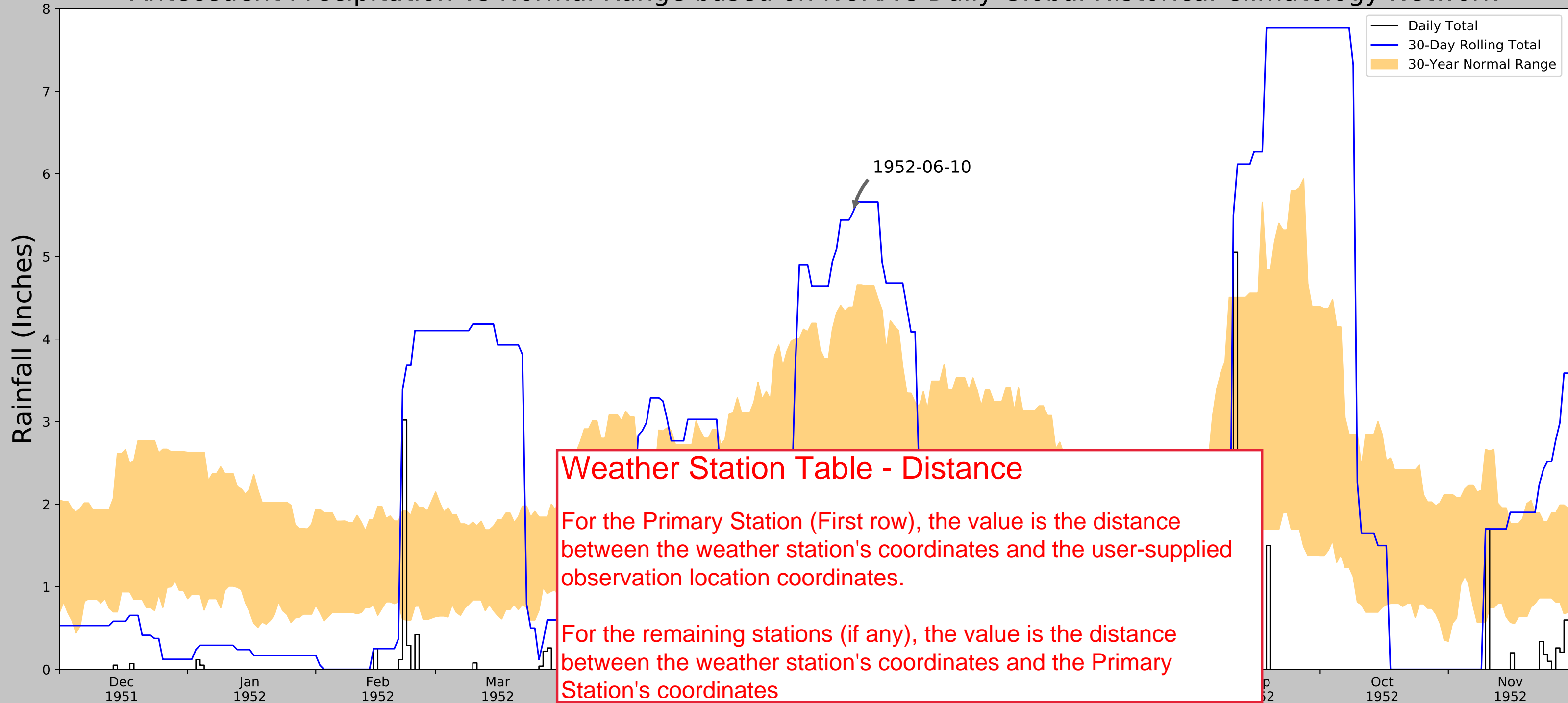
30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
1952-07-10	1.292126	3.381496	1.417323	Normal	2	3	6
1952-06-10	1.399713	4.385433	5.53937	Wet	3	2	6
1952-05-11	1.235039	3.08937	1.905512	Normal	2	1	2
Result							Normal Conditions - 14



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
WHITSETT 3 SW	28.6333, -98.2667	209.974	20.544	38.786	10.042	11312	90
FOWLERTON	28.5033, -98.8392	299.869	19.238	51.109	9.64	12	0
THREE RIVERS	28.4667, -98.1833	150.919	21.068	97.841	11.542	28	0

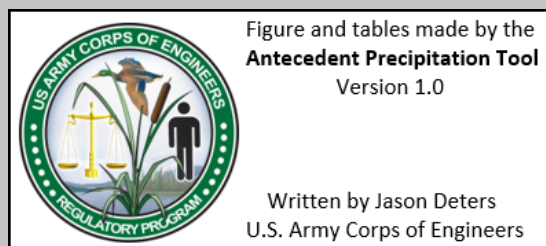


# Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



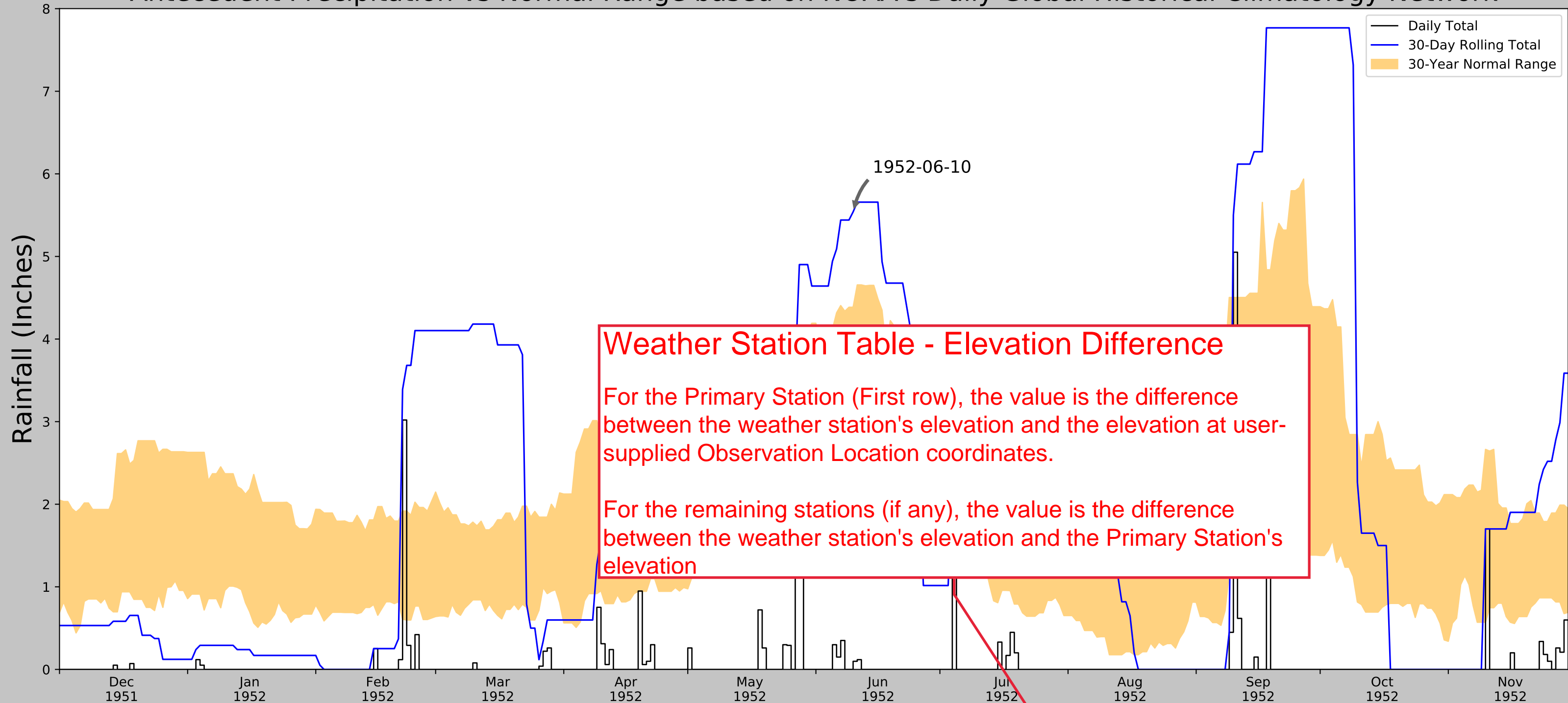
Coordinates	28.44571, -98.529303
Observation Date	1952-07-10
Elevation (ft)	248.76
Drought Index (PDSI)	Severe drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

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1952-06-10	1.399213	4.385433	5.53937	Wet	3	2	6
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Result							Normal Conditions - 14



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
WHITSETT 3 SW	28.6333, -98.2667	209.974	20.544	38.786	10.042	11312	90
FOWLERTON	28.5033, -98.8392	299.869	19.238	51.109	9.64	12	0
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1952-05-11	1.235039	3.08937	1.905512	Normal	2	1	2
Result							Normal Conditions - 14

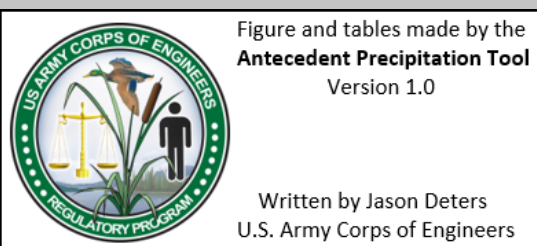
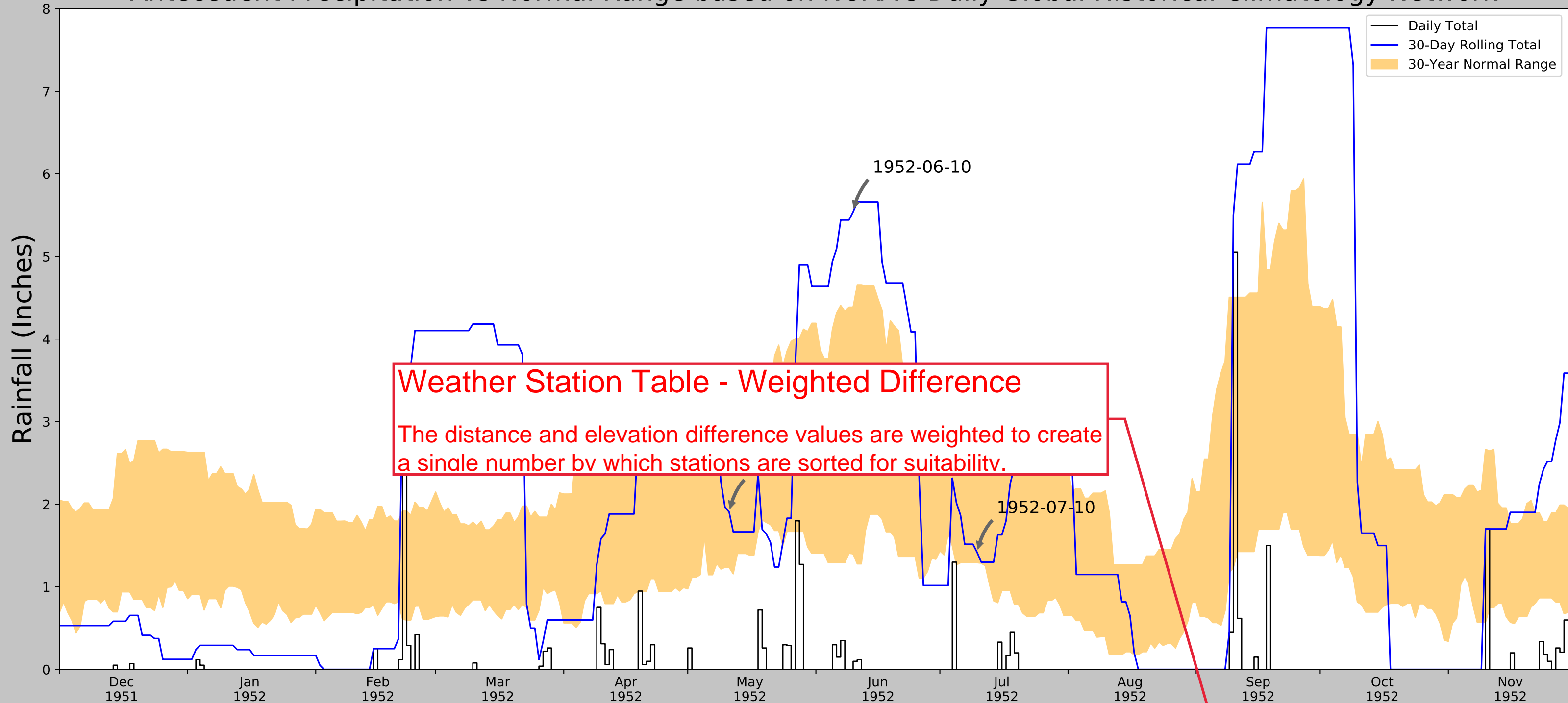


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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation $\Delta$	Weighted $\Delta$	Days (Normal)	Days (Antecedent)
WHITSETT 3 SW	28.6333, -98.2667	209.974	20.544	38.786	10.042	11312	90
FOWLERTON	28.5033, -98.8392	299.869	19.238	51.109	9.64	12	0
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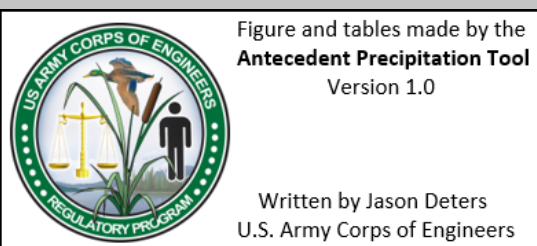


## Weather Station Table - Weighted Difference

The distance and elevation difference values are weighted to create a single number by which stations are sorted for suitability.

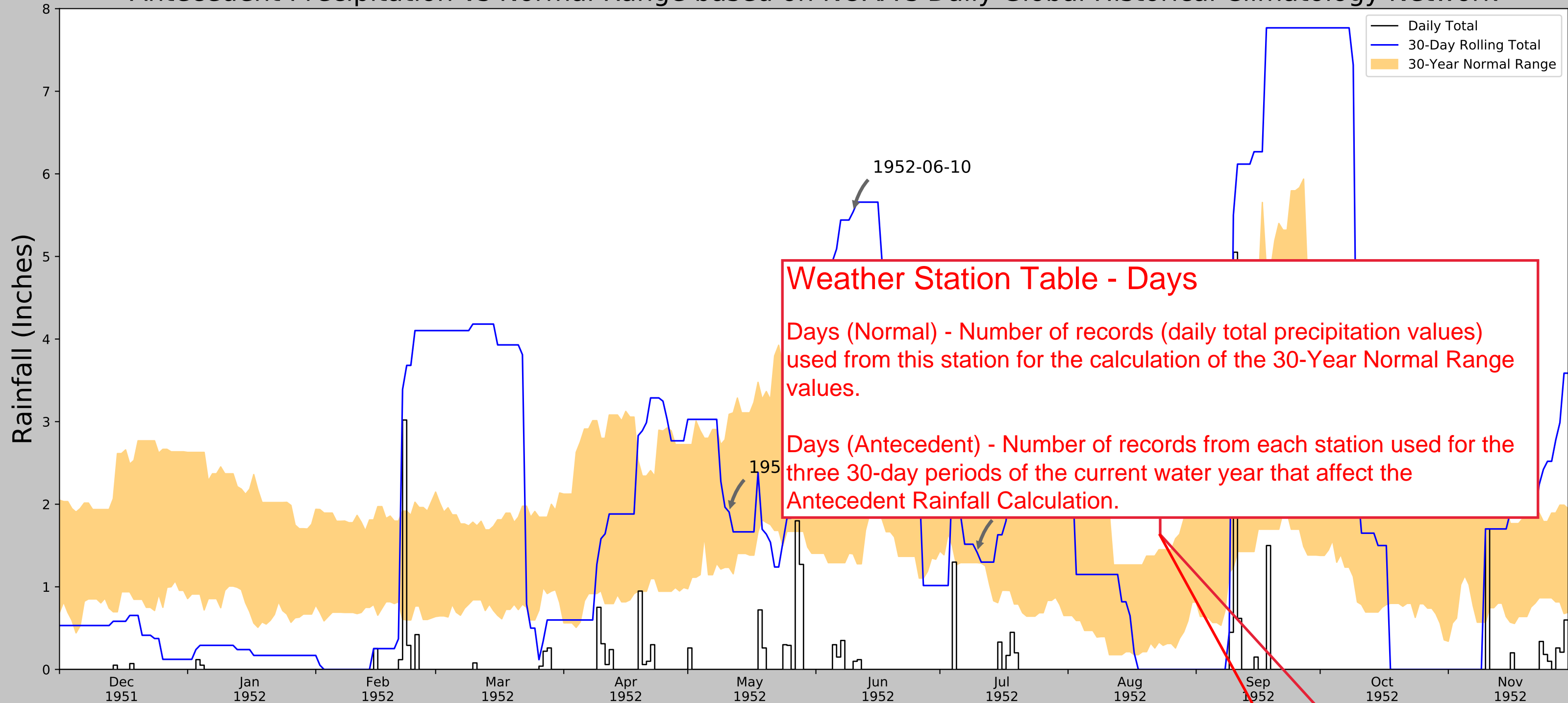
Coordinates	28.44571, -98.529303
Observation Date	1952-07-10
Elevation (ft)	248.76
Drought Index (PDSI)	Severe drought
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1952-05-11	1.235039	3.08937	1.905512	Normal	2	1	2
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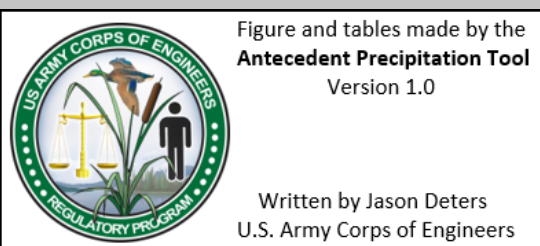
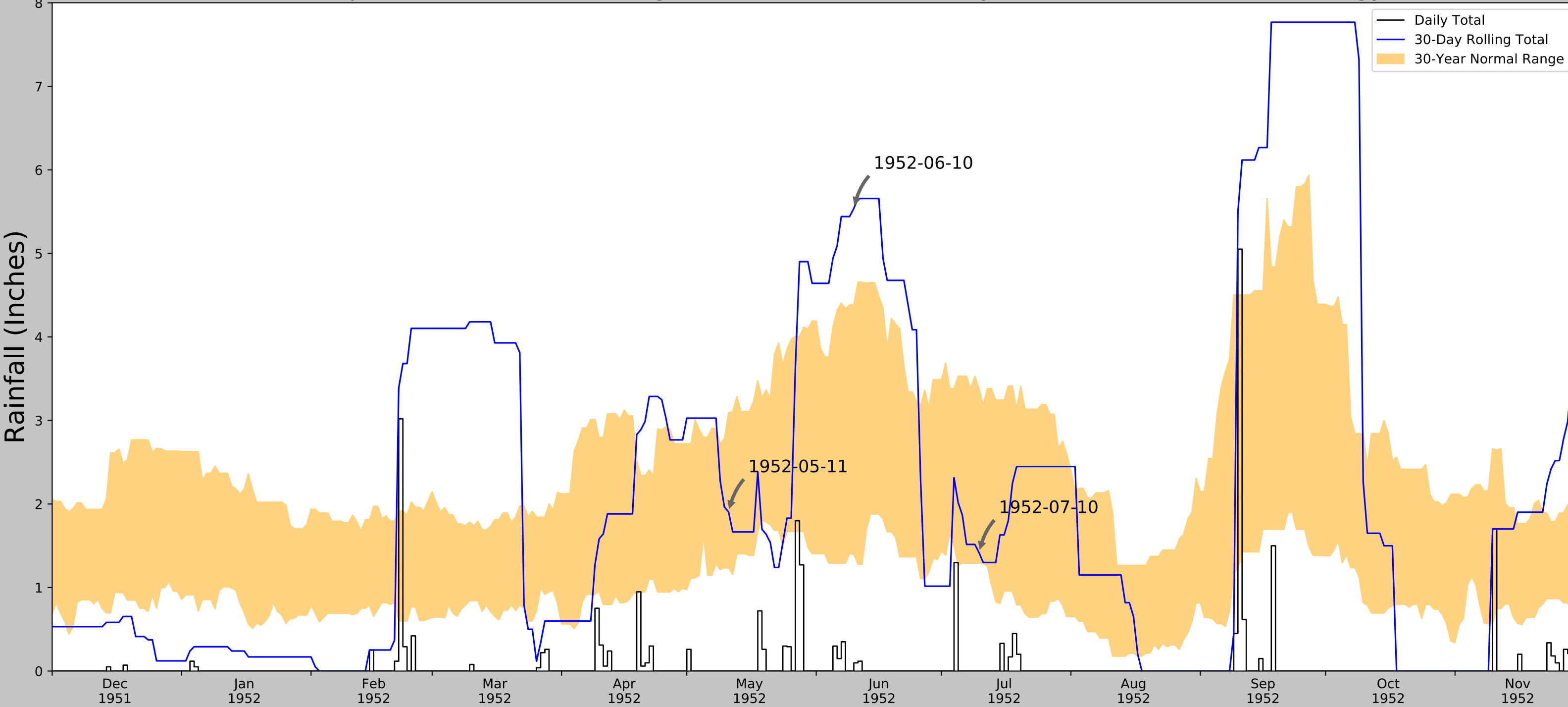


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