

-Written by Jason Deters

Checking for newer version of the Antecedent Rainfall Calculator...

Local Version = 2.001

Current Version = 2.001

Launching Graphical User Interface...

Antecedent Rainfall Calculator

Latitude (DD):	Longitude (-DD):	Report Issue
<input type="text"/>	<input type="text"/>	
Year (yyyy):	Month (m or mm):	Day (d or dd):
<input type="text"/>	<input type="text"/>	<input type="text"/>
Calculate/Graph	Add to Batch	Show Options
		Quit



Antecedent Rainfall Calculator



Latitude (DD):

Longitude (-DD):

Report Issue

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Day (d or dd):

Calculate/Graph

Add to Batch

Show Options

Quit



Antecedent Rainfall Calculator



Latitude (DD):

Longitude (-DD):

Report Issue

38.5

-121.5

Year (yyyy):

Month (m or mm):

Day (d or dd):

2019

3

5

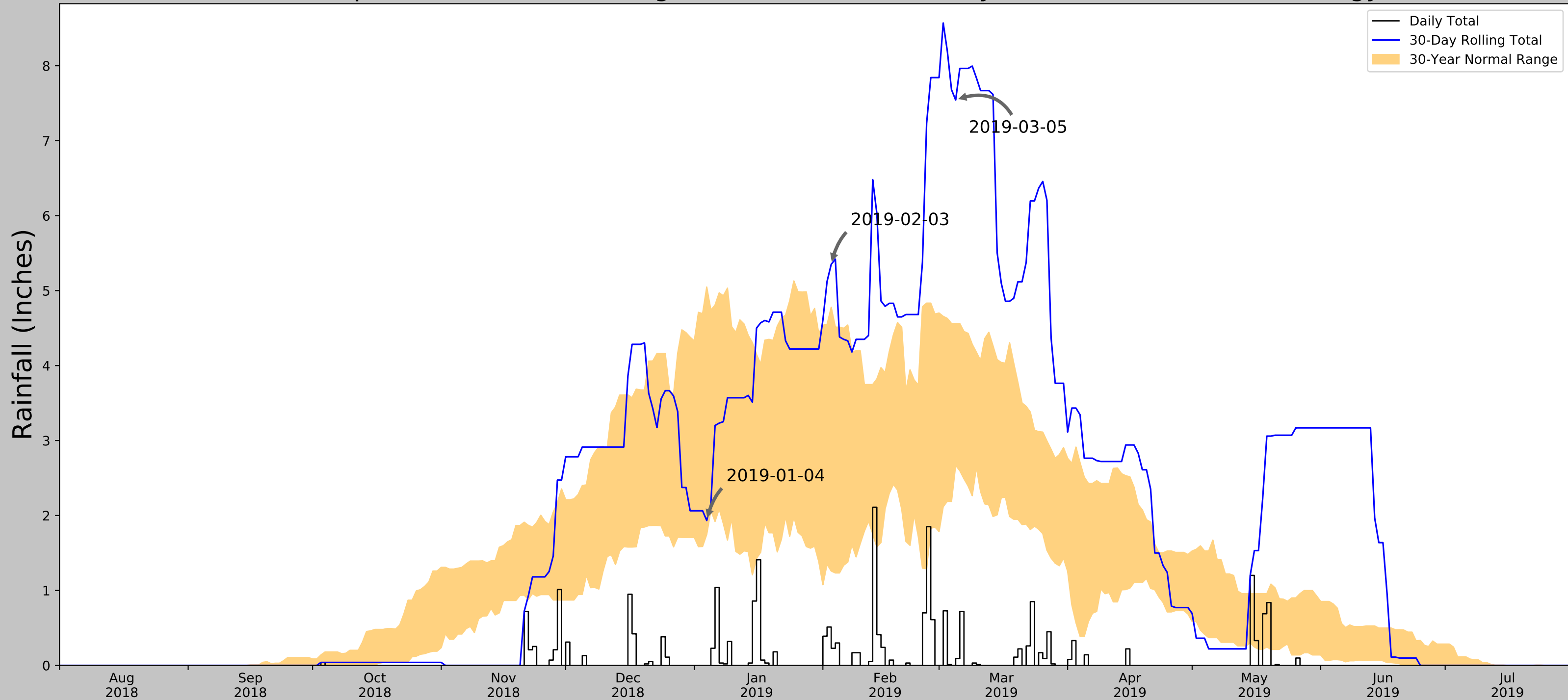
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Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

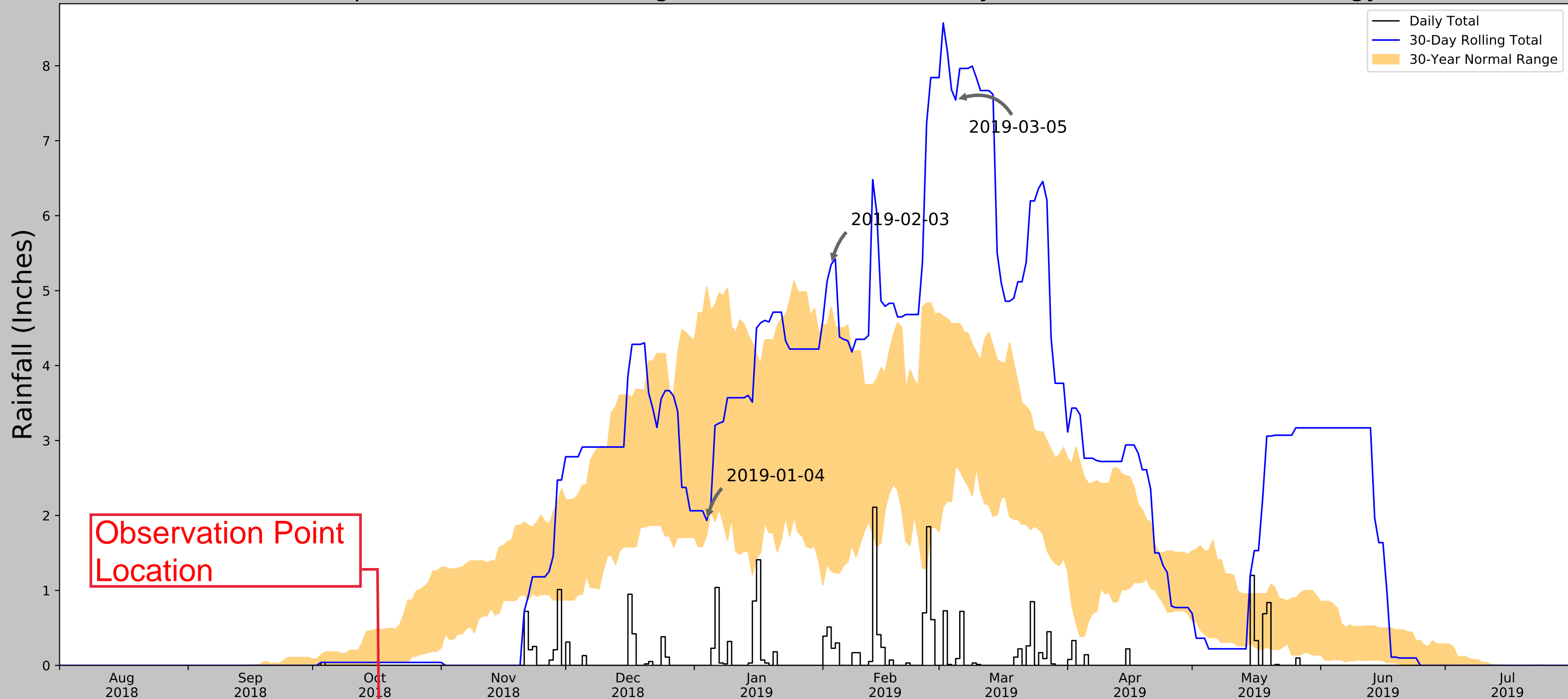


Coordinates	38.5, -121.5
Observation Date	2019-03-05
Elevation (ft)	7.14
Drought Index (PDSI)	Moderate wetness
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
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2019-02-03	1.259449	4.777953	5.350394	Wet	3	2	6
2019-01-04	1.748425	5.048425	1.933071	Normal	2	1	2
Result							Wetter than Normal - 17

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*	11345	90
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	5.398	22.966	2.553	8	0

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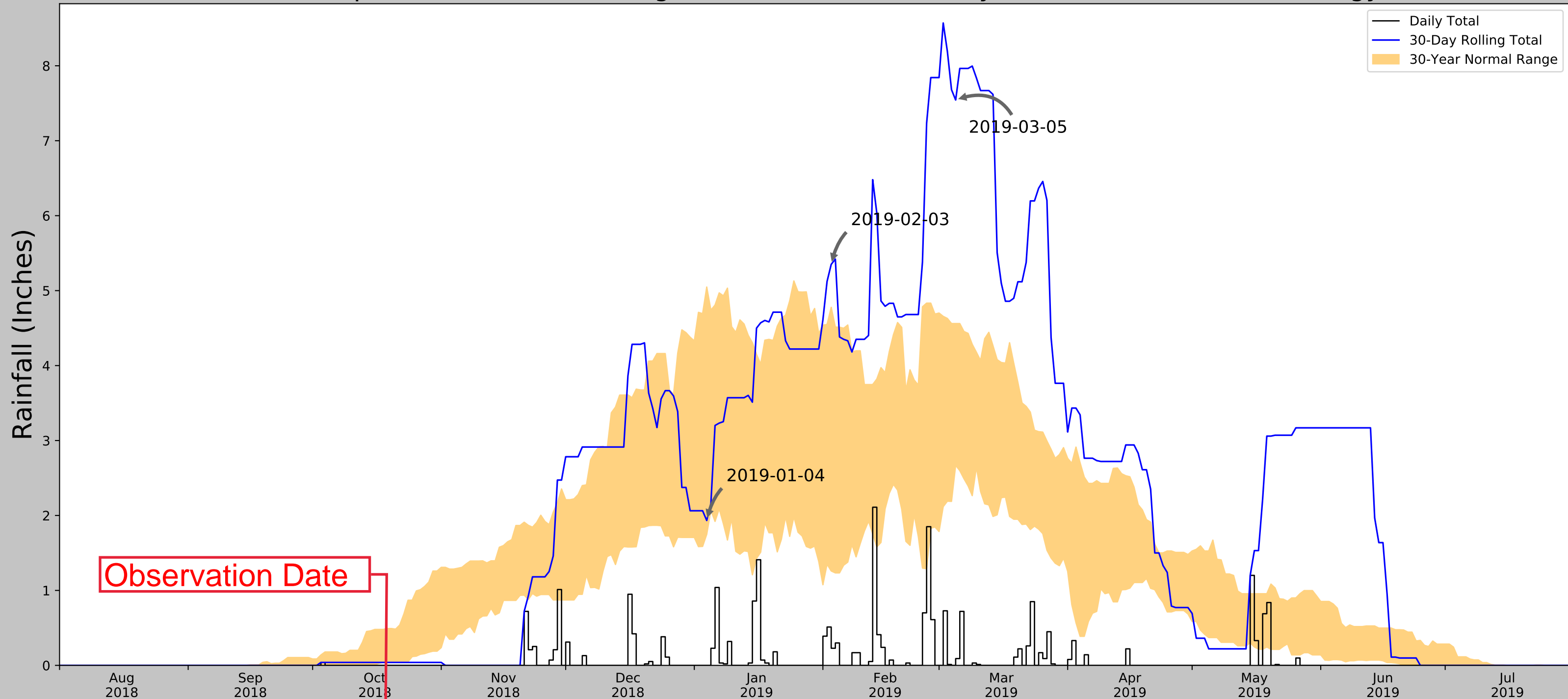


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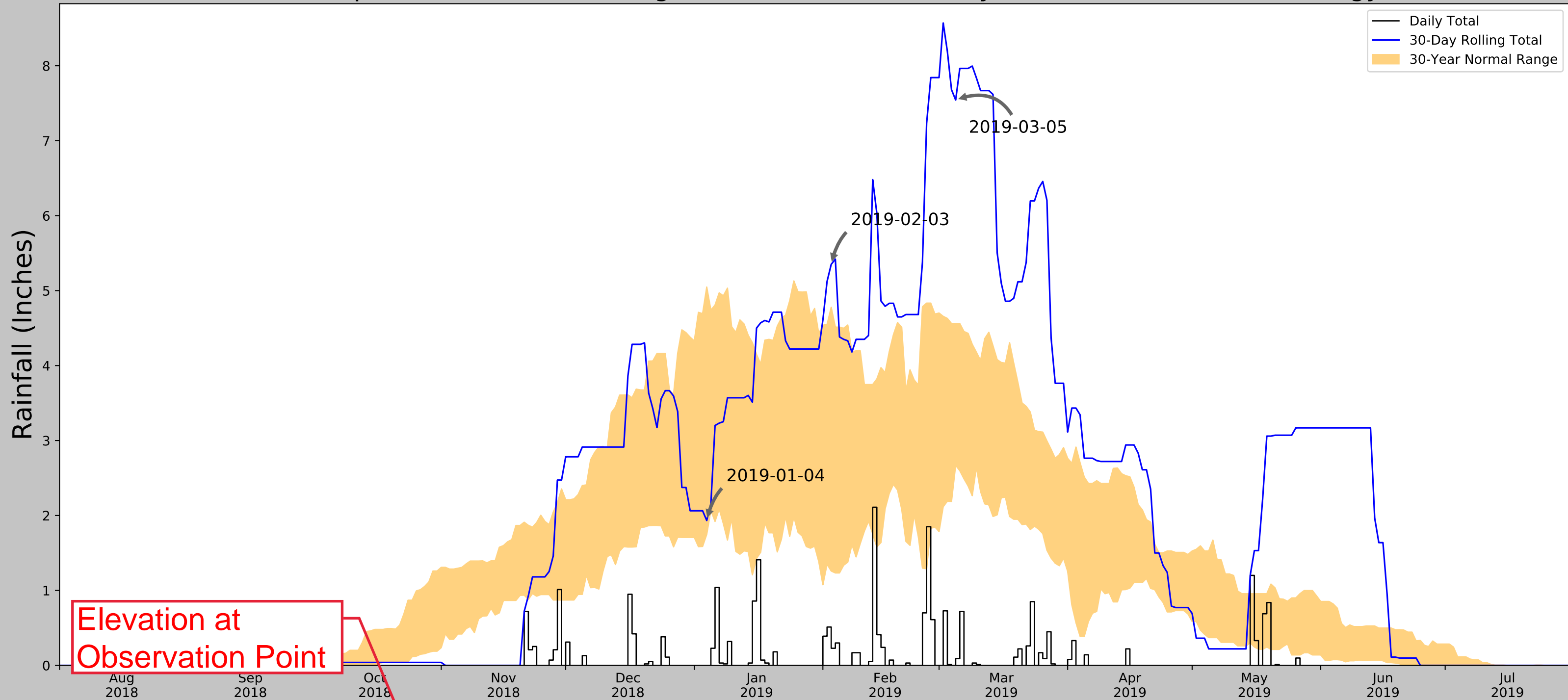


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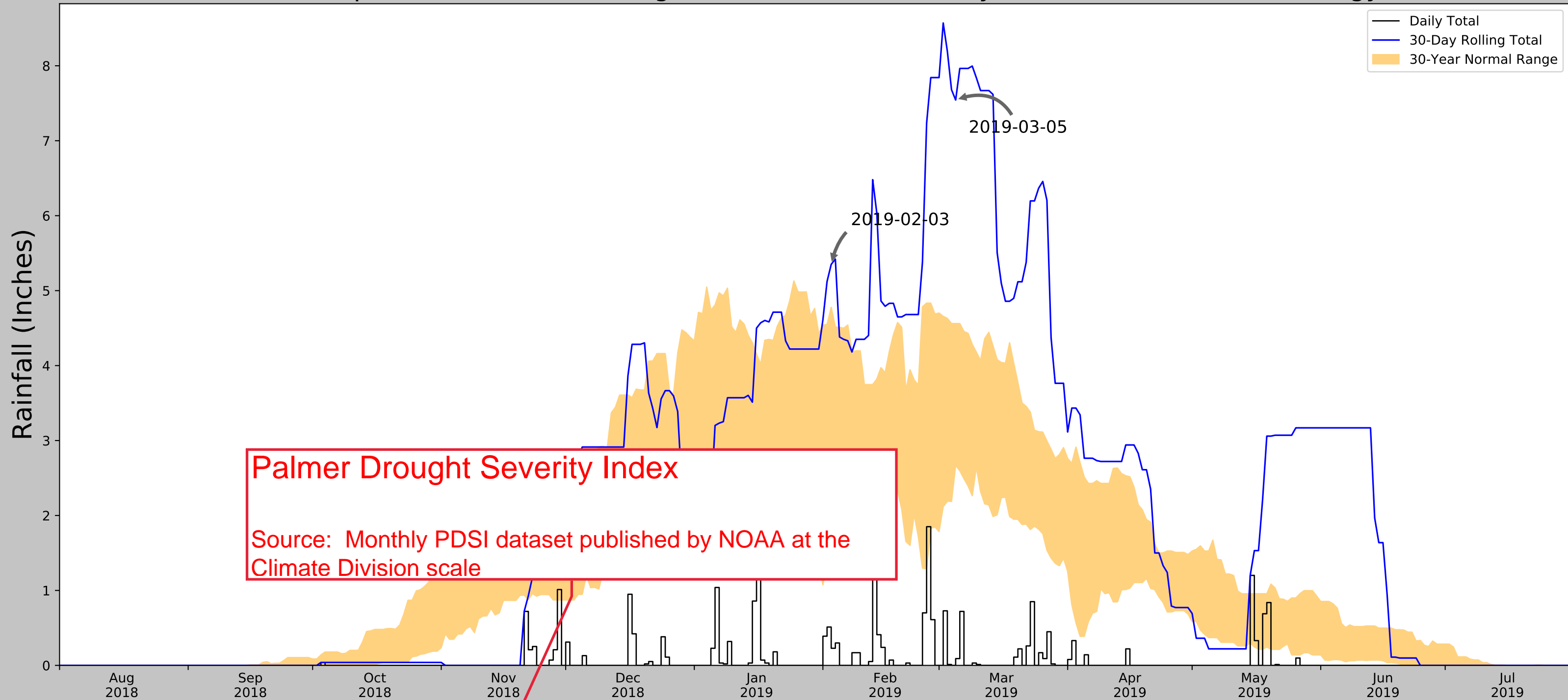


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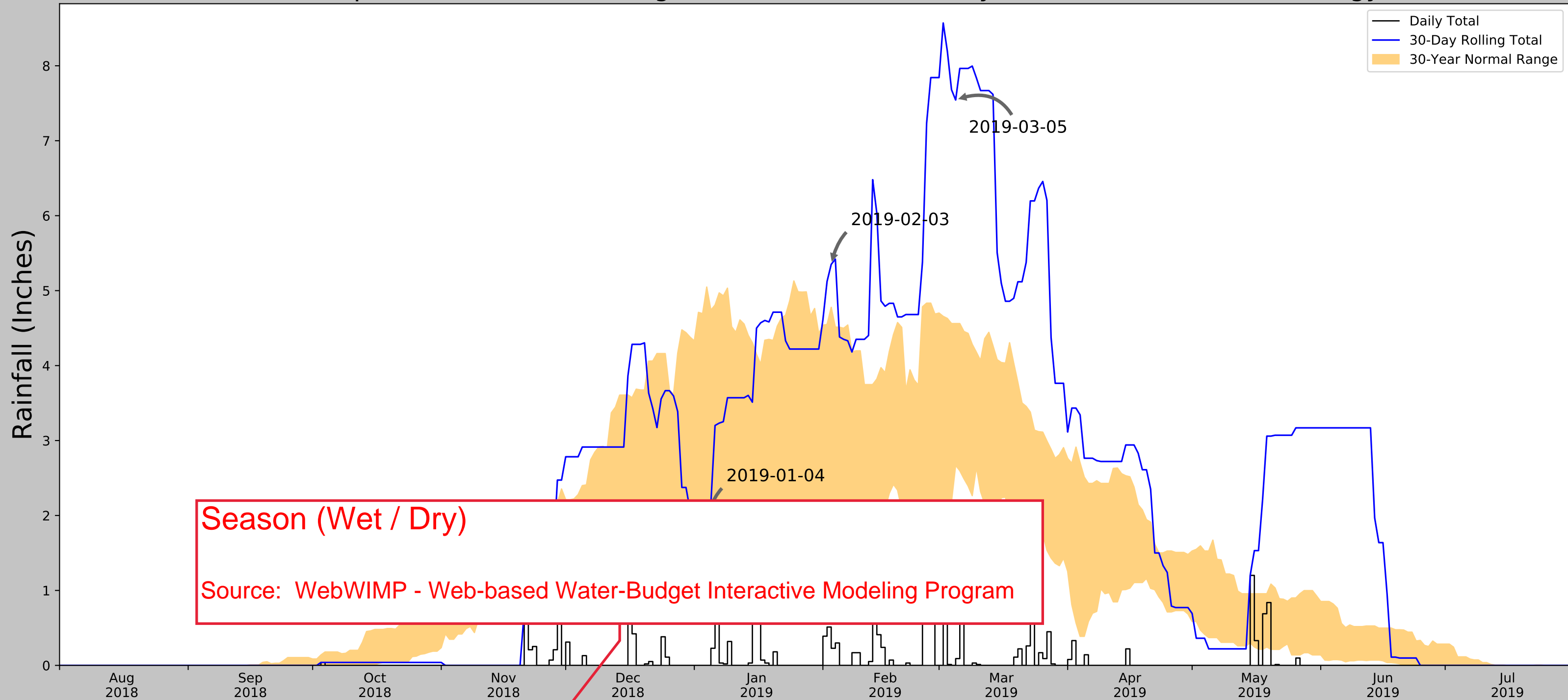


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```
#----- Web WIMP - Web-based Water-Budget Interactive Modeling Program -----#
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```
Scraping WebWIMP...
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```
Checking for existing data...
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Terms:
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```
DIFF is the rainfall and estimated snowmelt minus the adjusted potential evapotranspiration (mm/month).
```

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DST is the estimated change in soil moisture from the end of the previous month to the end of the current month (mm/month).
```

```
DEF is the estimated deficit or unmet atmospheric demand for moisture (mm/month).
```

Mon	DIFF	DST	DEF	Conclusion
Jan	94	62	0	Wet Season
Feb	46	0	0	Wet Season
Mar	37	0	0	Wet Season
Apr	-23	-23	0	Dry Season
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

Season (Wet / Dry)

Source: WebWIMP - Web-based Water-Budget Interactive Modeling Program

Coordinates	38.5, -121.5	30 Days Ending	30 th %ile (in)	70 th %ile (in)
Observation Date	2019-03-05	2019-03-05	2.669291	4.5610
Elevation (ft)	7.14	2019-02-03	1.259449	4.7779
Drought Index (PDSI)	Moderate wetness	2019-01-04	1.748425	5.0484
WebWIMP H ₂ O Balance	Wet Season	Result		

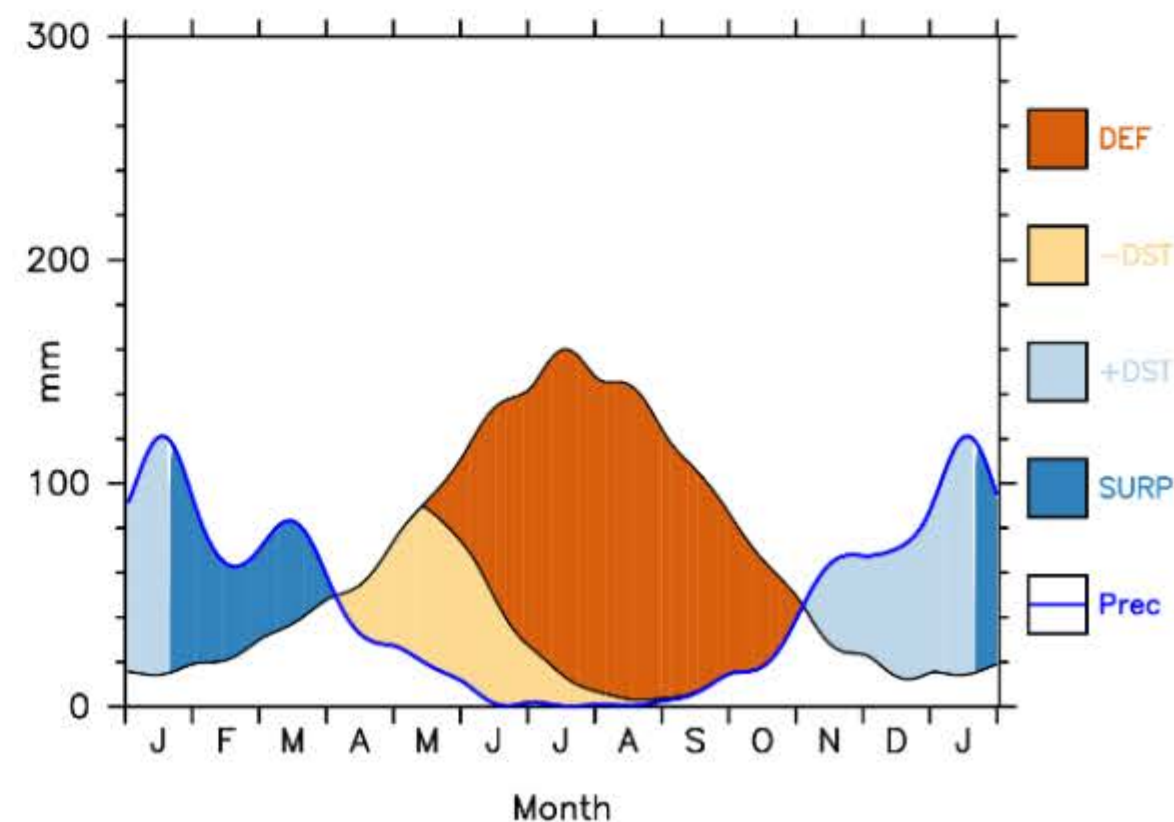
Weather Station Name	
SACRAMENTO EXECUTIVE AP	38.506
SACRAMENTO 5 ESE	38.5556

The tool's console explains how this determination was made.

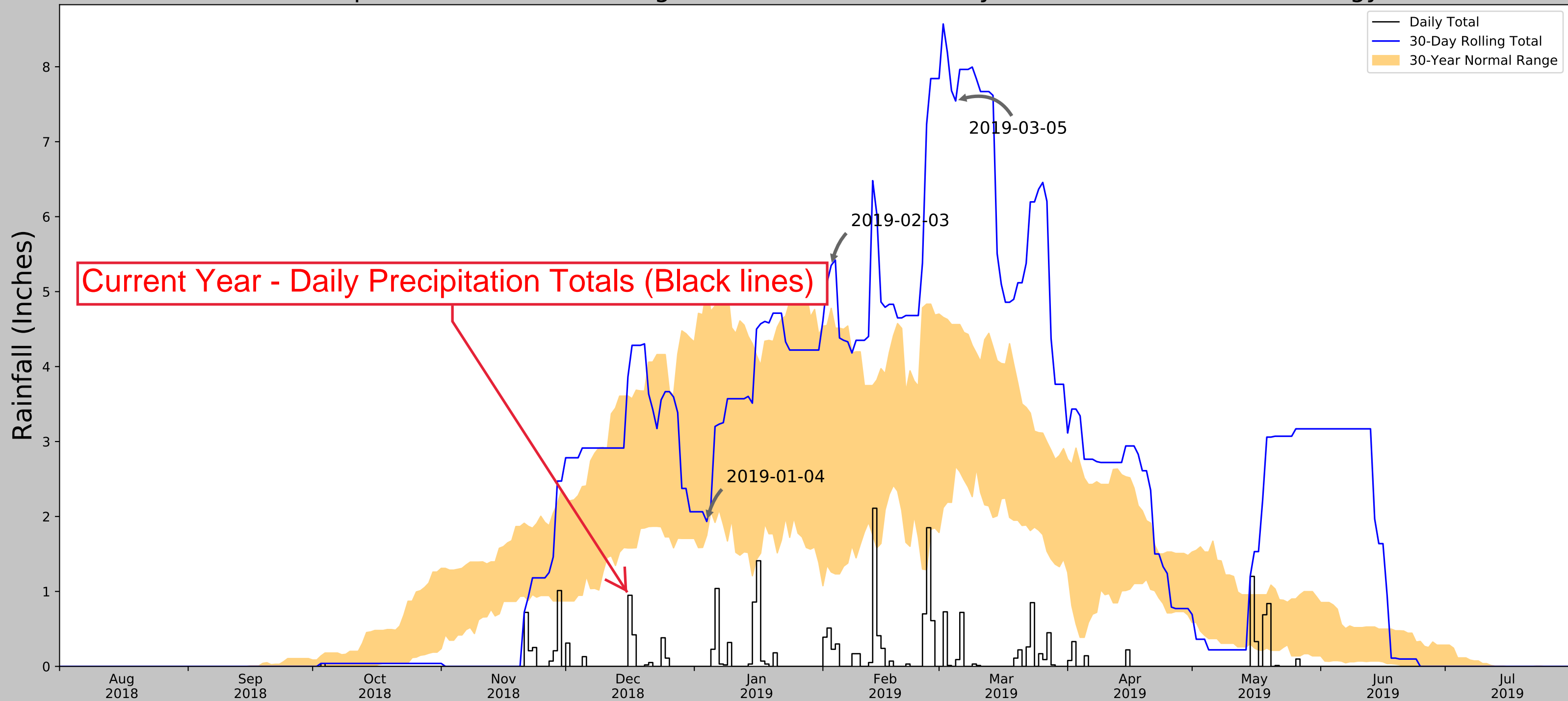
It also provides a graph to make it easier to visualize the annual water budget in the region.

Web WIMP Water Balance Graph.png - Photos

Water Balance at 121.5W, 38.5N
Project Title: ARC Request - 2019-07-24



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

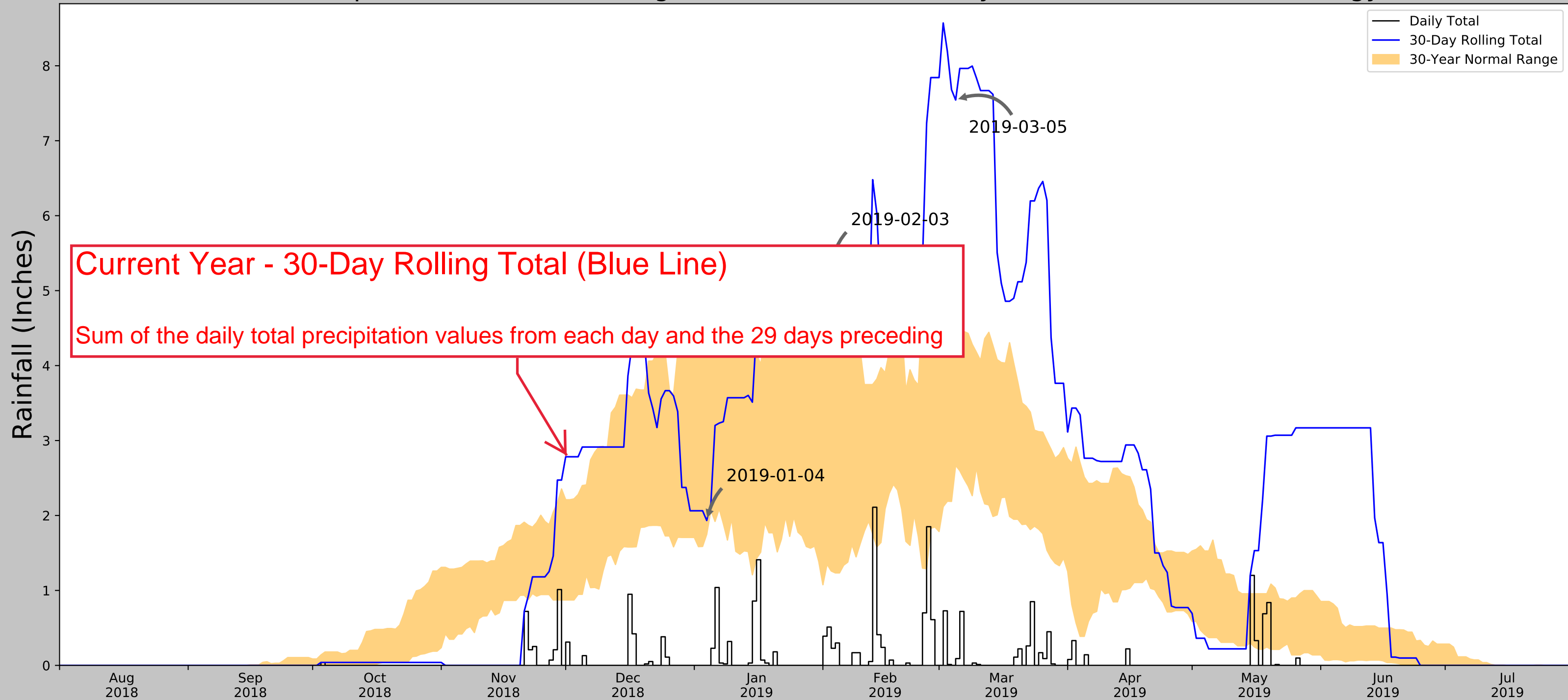


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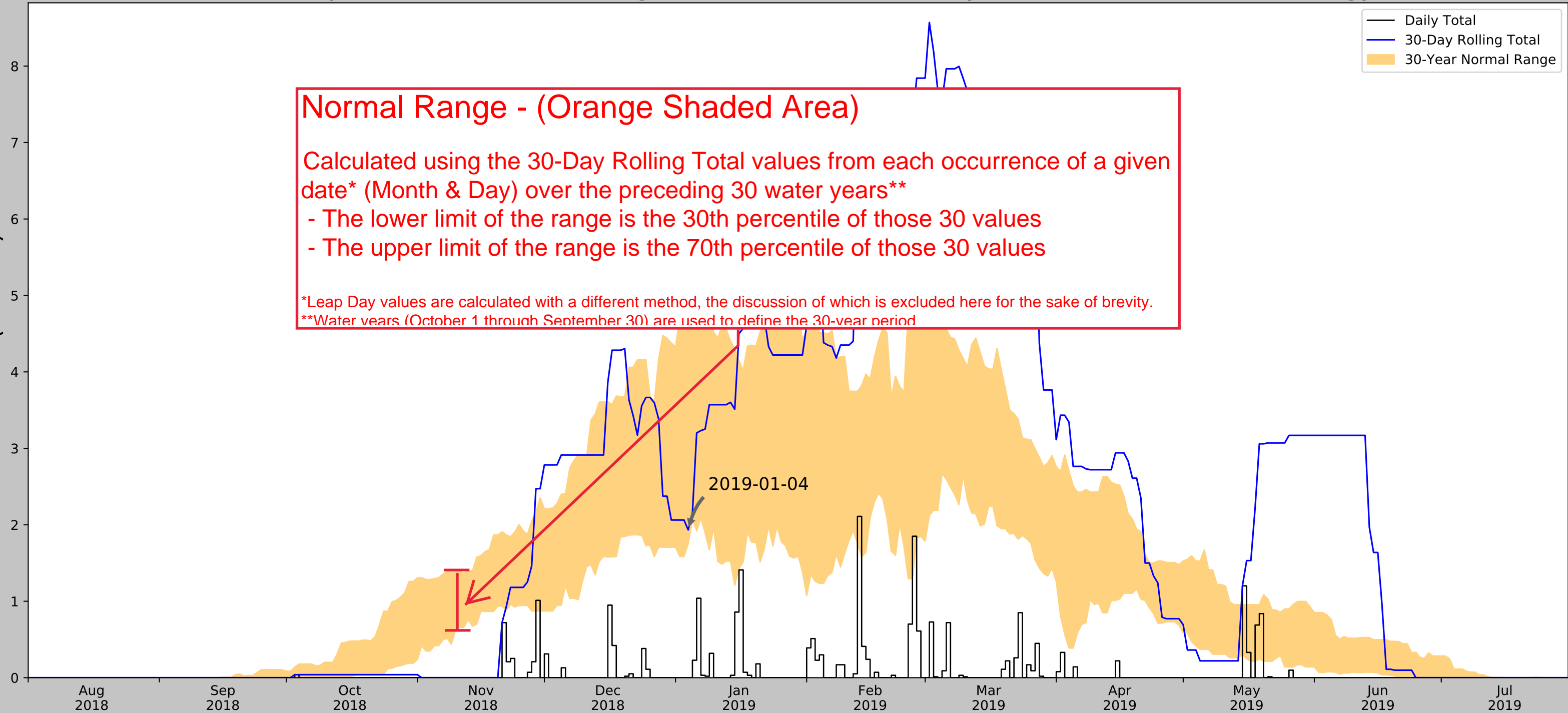
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Rainfall (Inches)

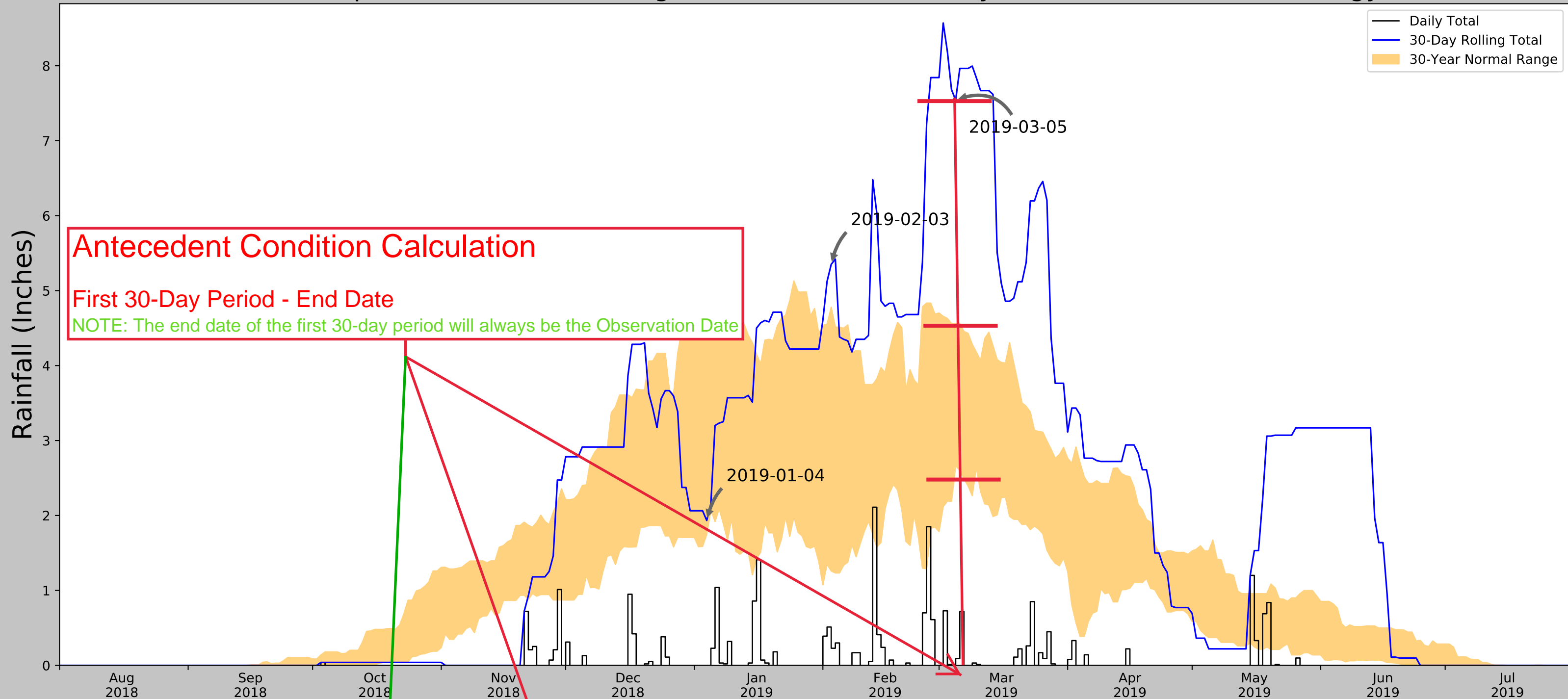


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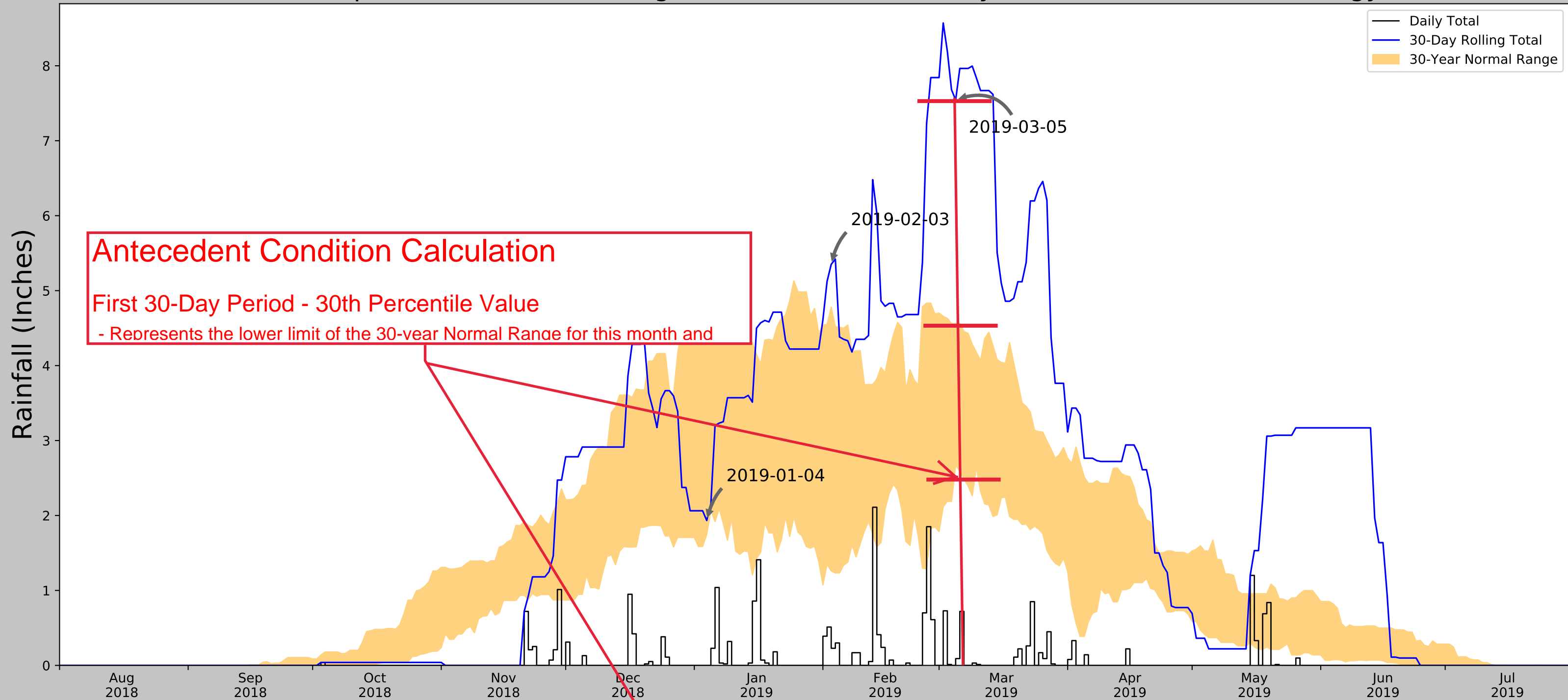


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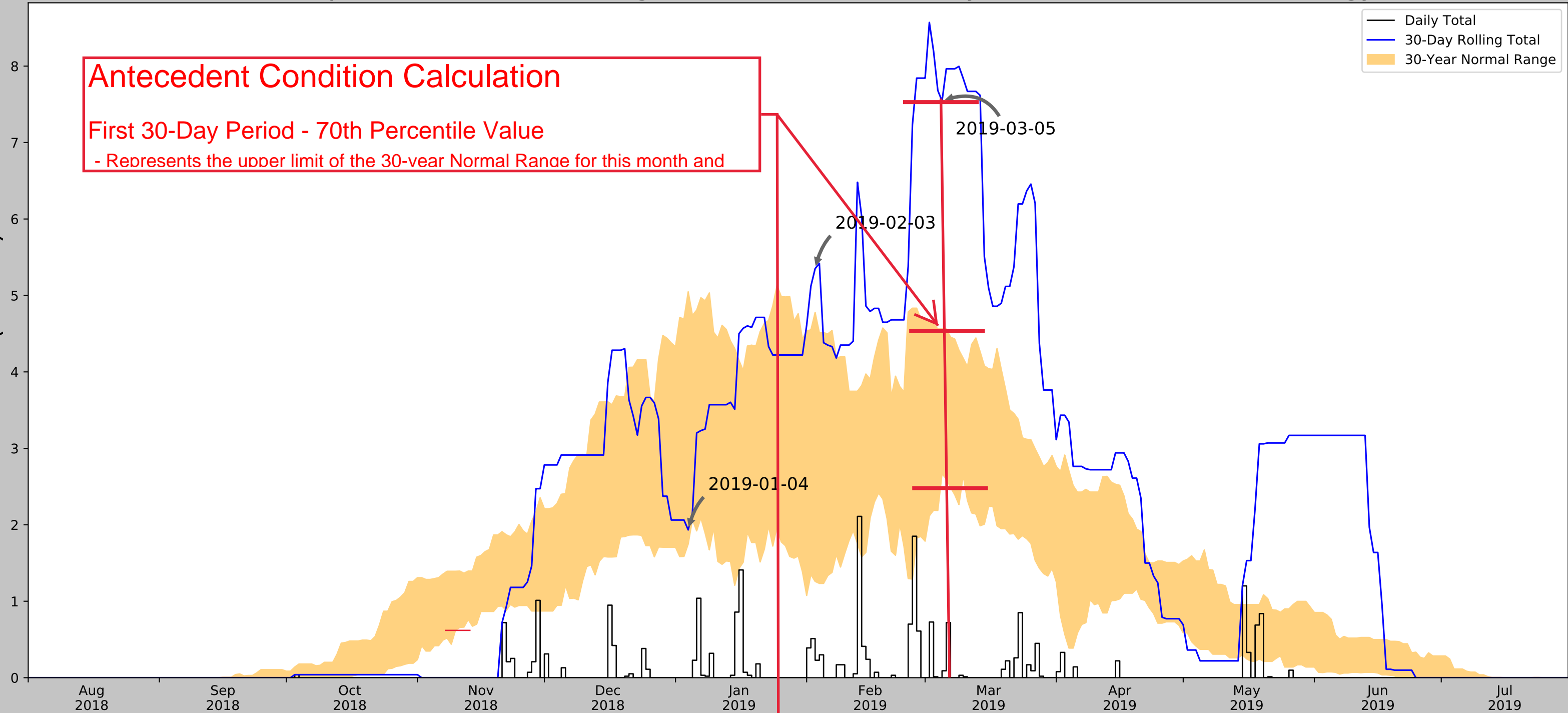
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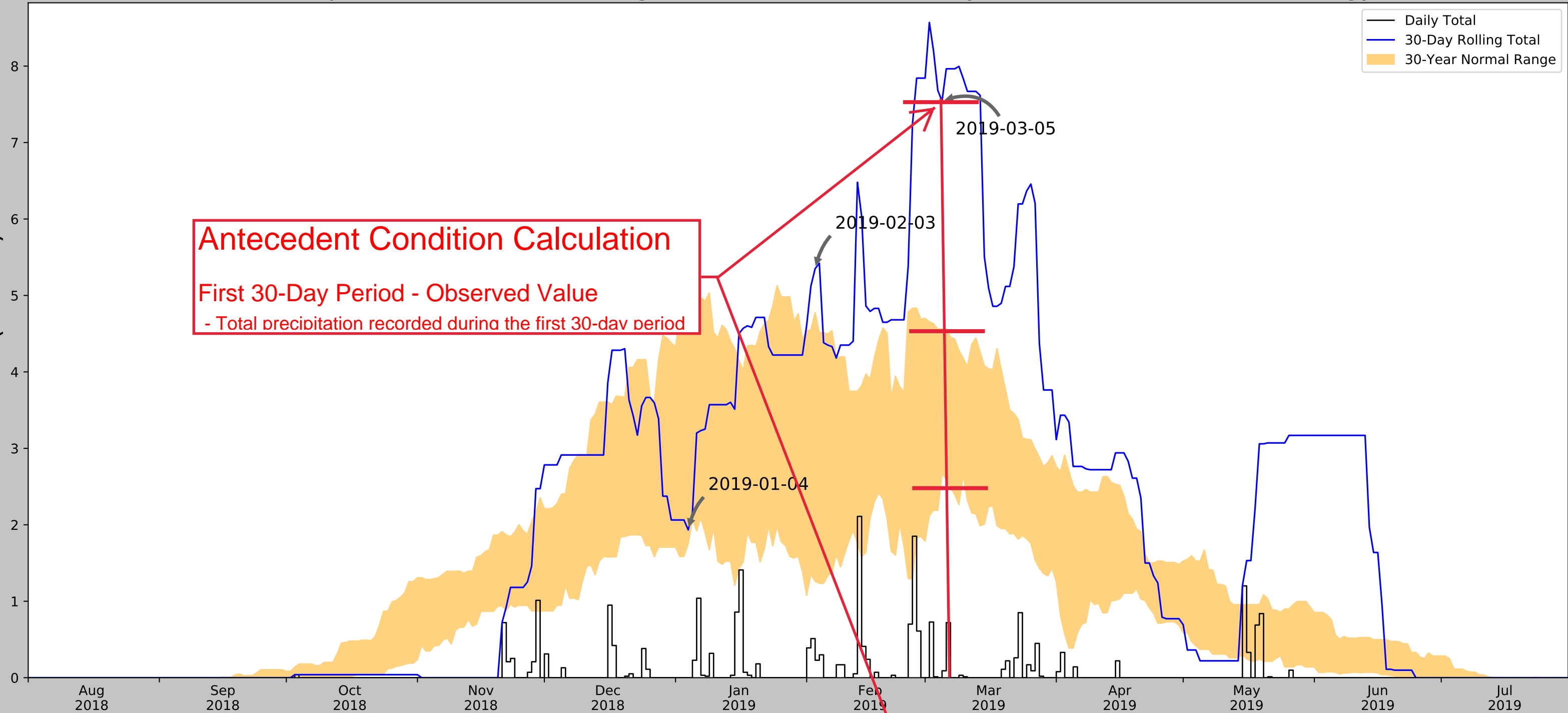
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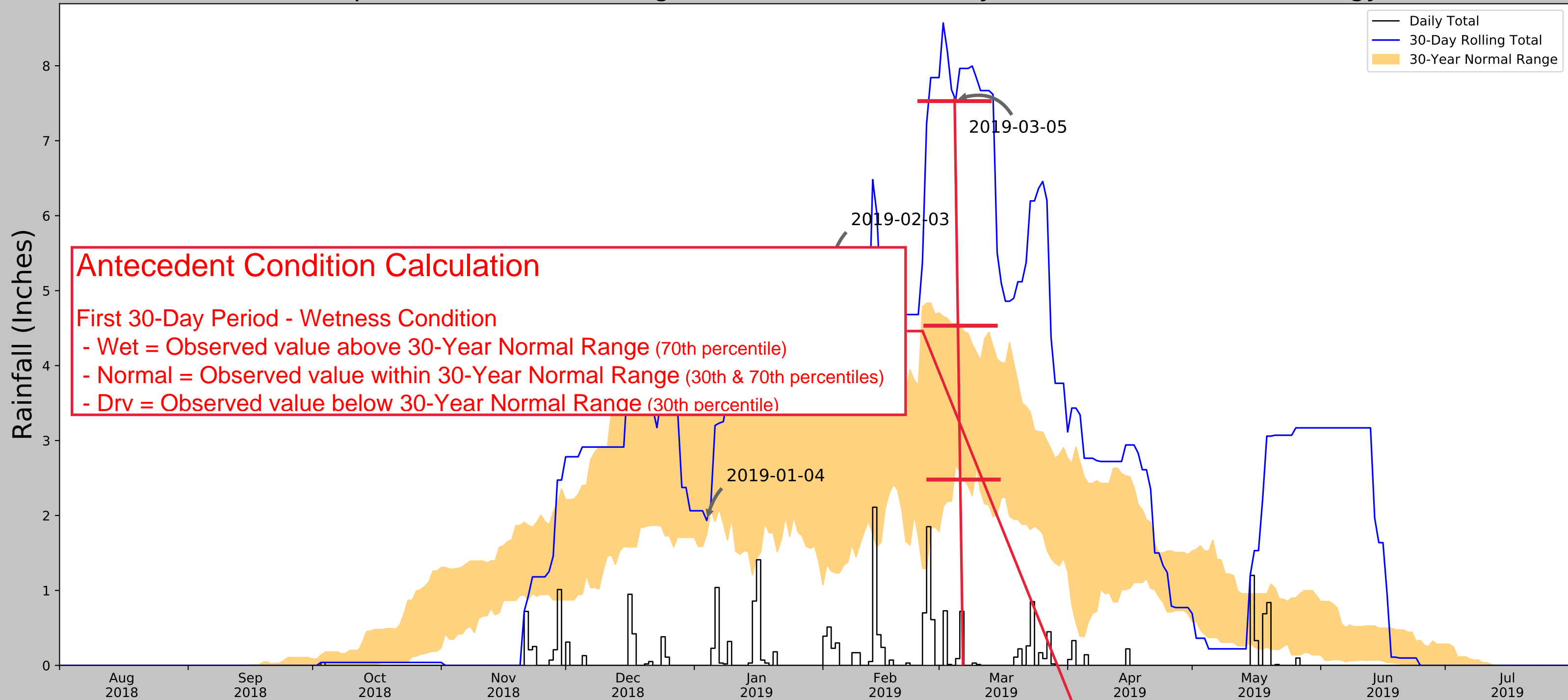


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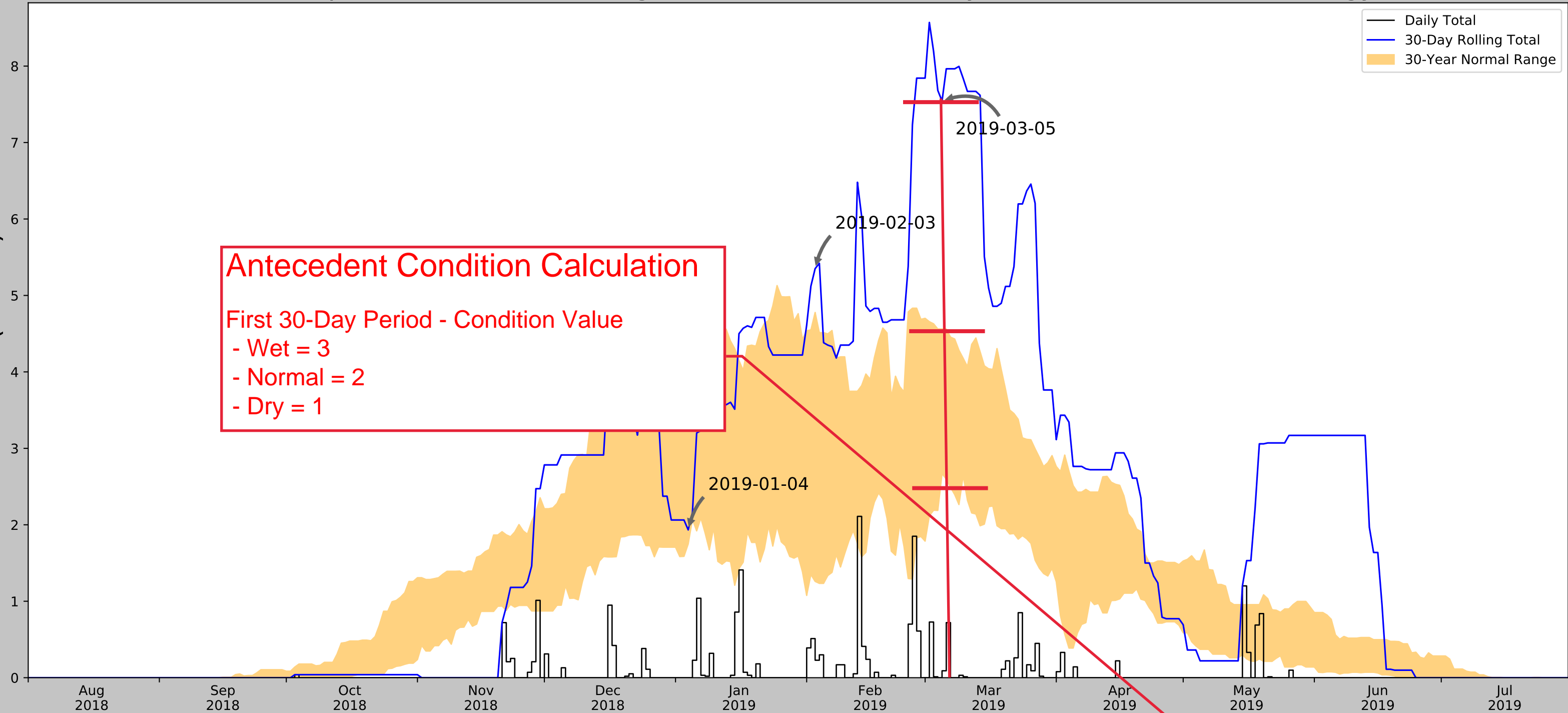
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Antecedent Condition Calculation

First 30-Day Period - Condition Value

- Wet = 3
- Normal = 2
- Dry = 1

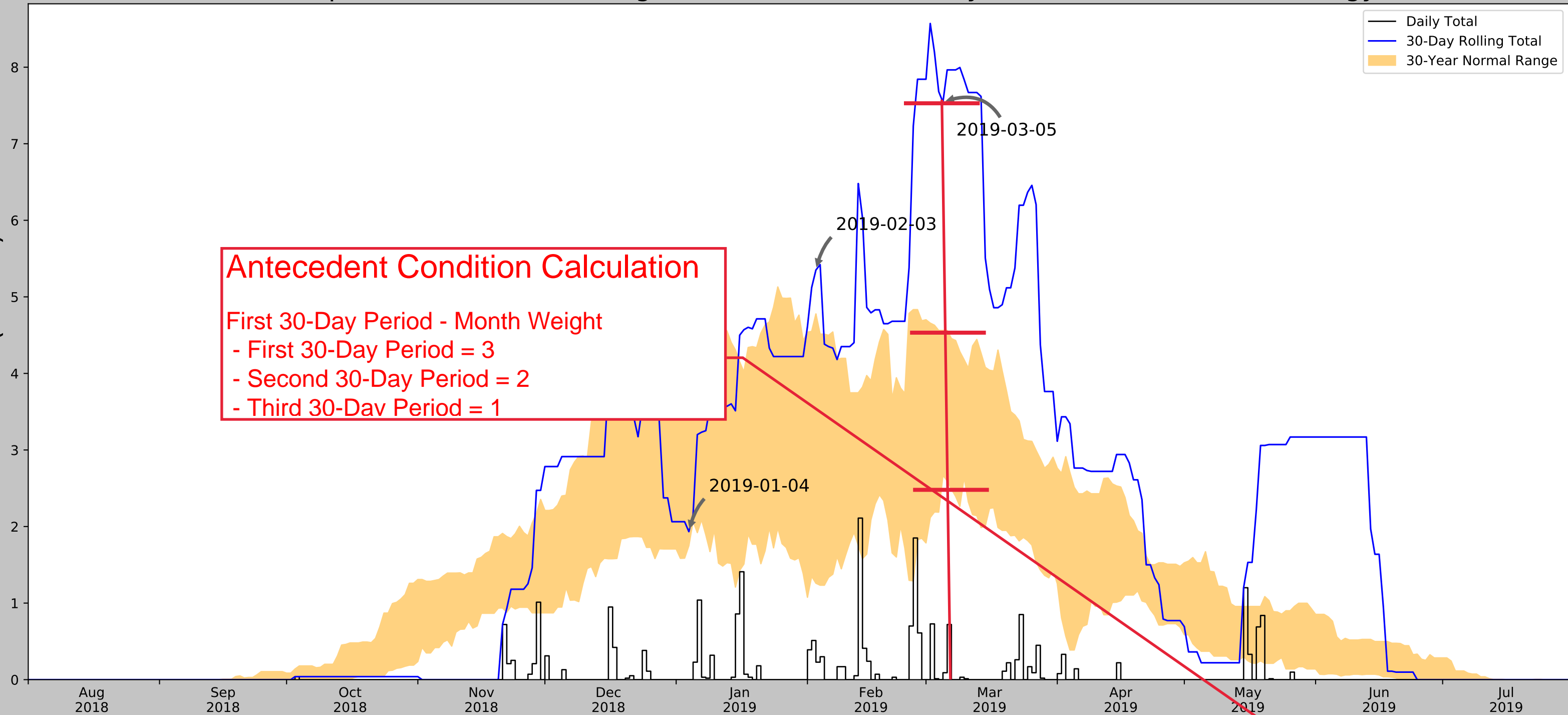
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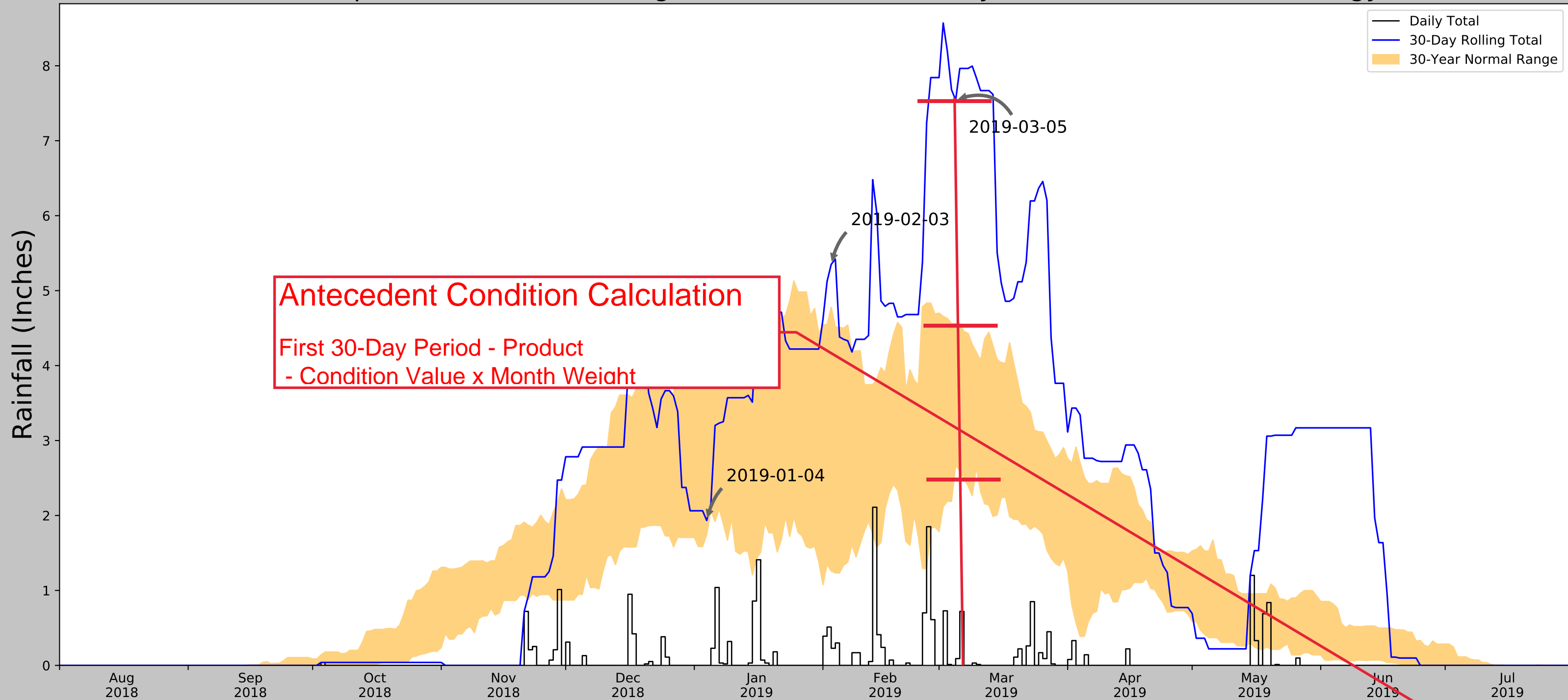


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2019-01-04	1.748425	5.048425	1.933071	Normal	2	1	2
Result							Wetter than Normal - 17

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*	11345	90
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	5.398	22.966	2.553	8	0

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

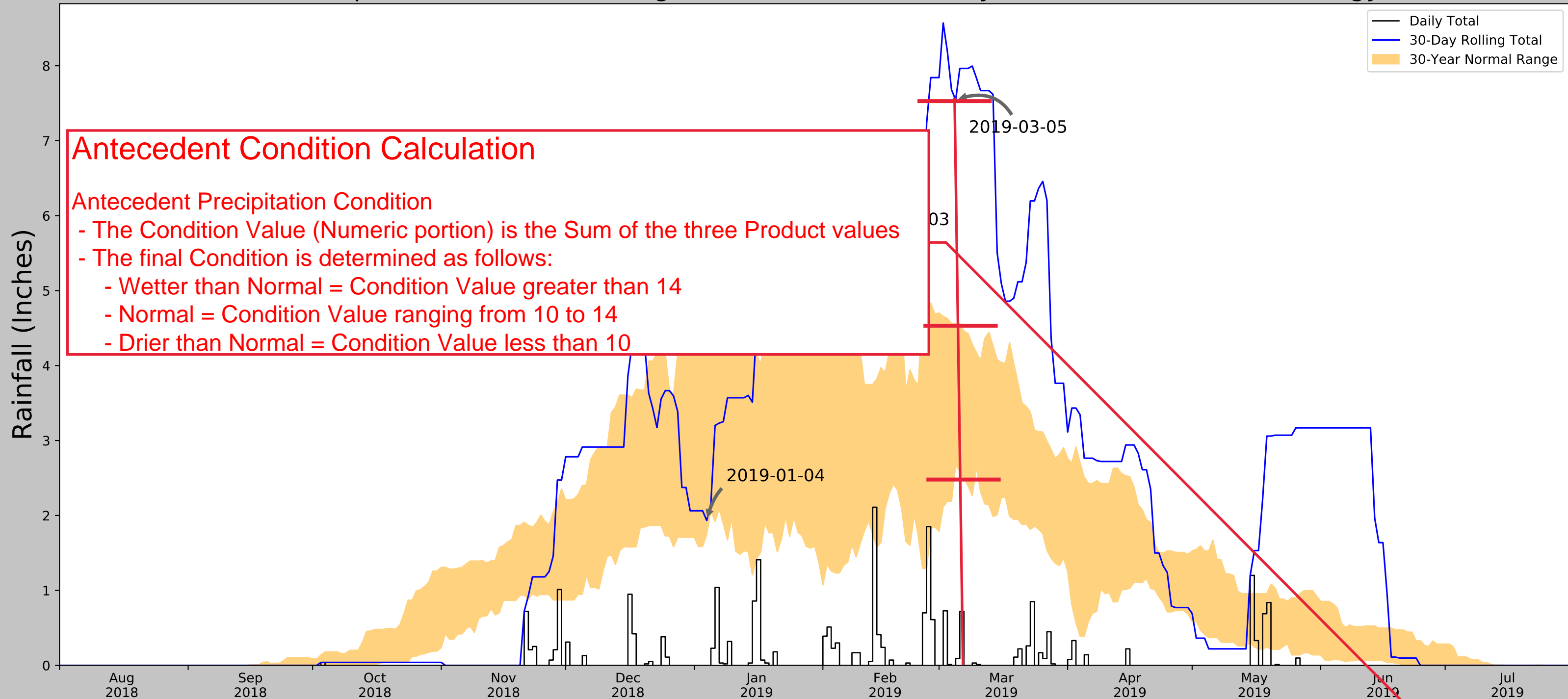


Coordinates	38.5, -121.5
Observation Date	2019-03-05
Elevation (ft)	7.14
Drought Index (PDSI)	Moderate wetness
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
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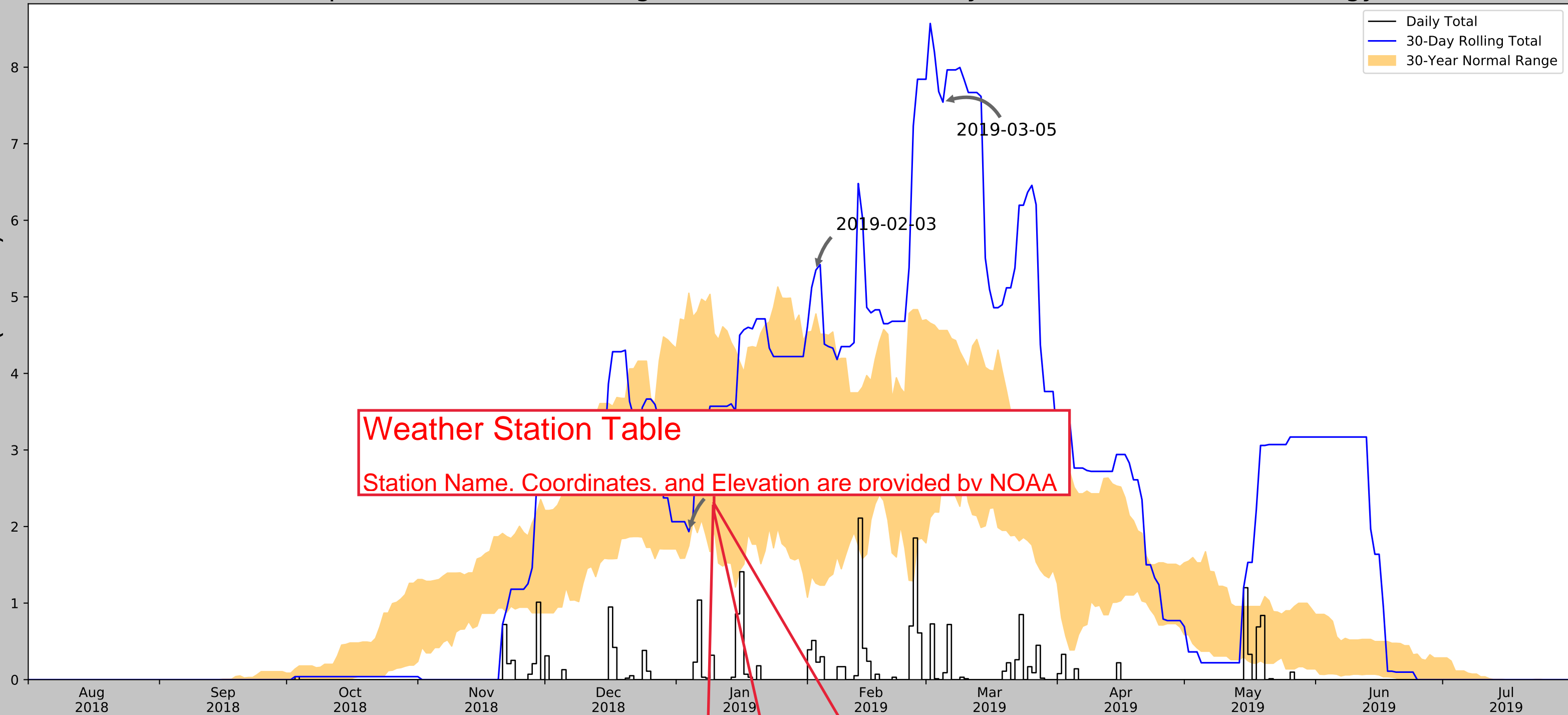
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Observation Date	2019-03-05
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Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

Rainfall (Inches)



Weather Station Table

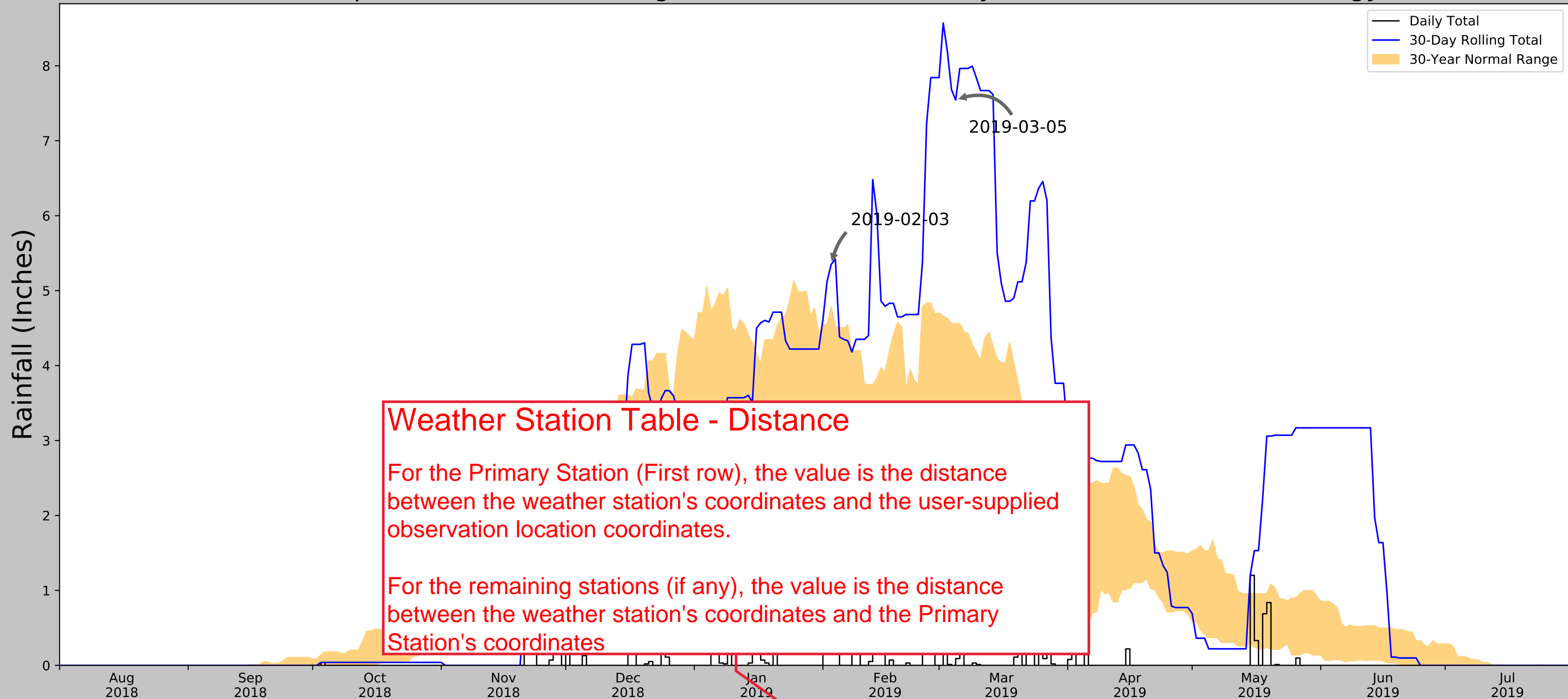
Station Name. Coordinates. and Elevation are provided by NOAA

Coordinates	38.5, -121.5
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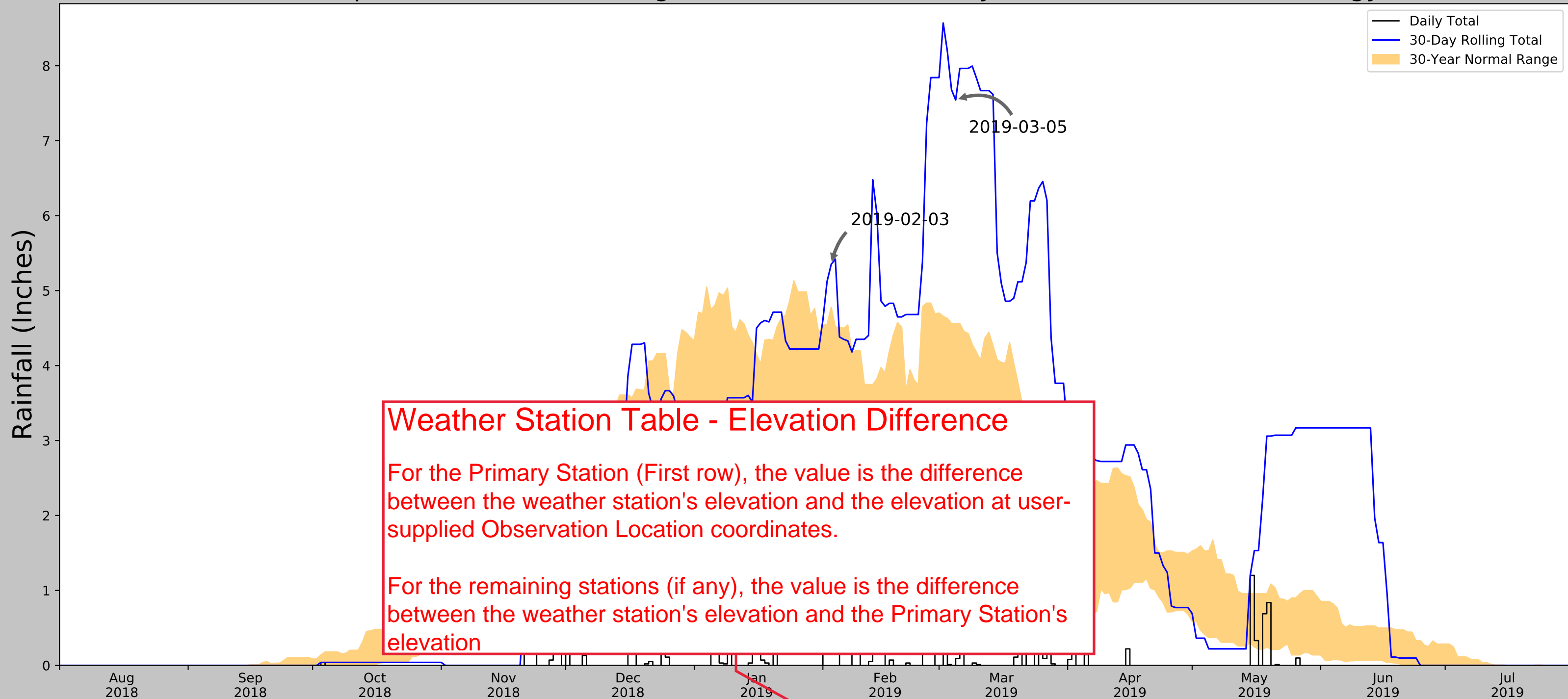


Coordinates	38.5, -121.5
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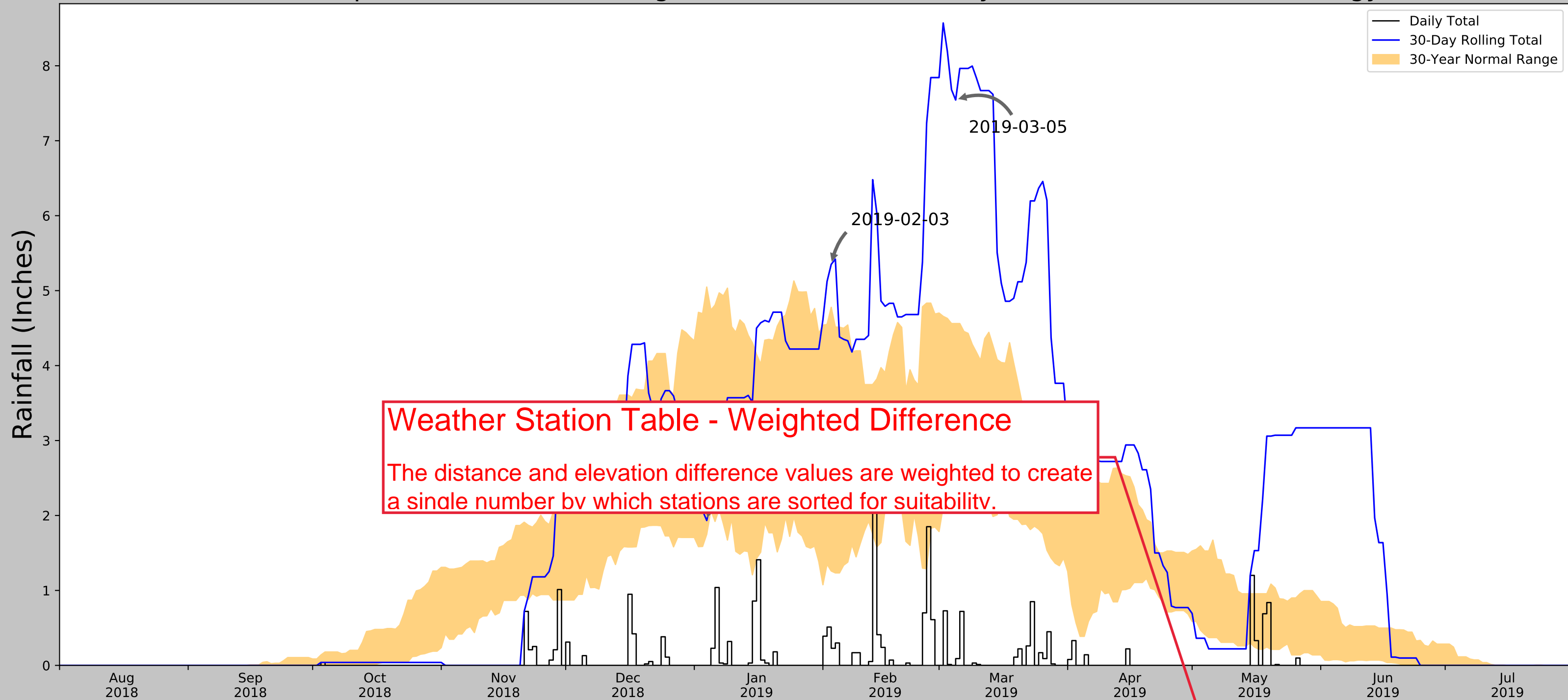


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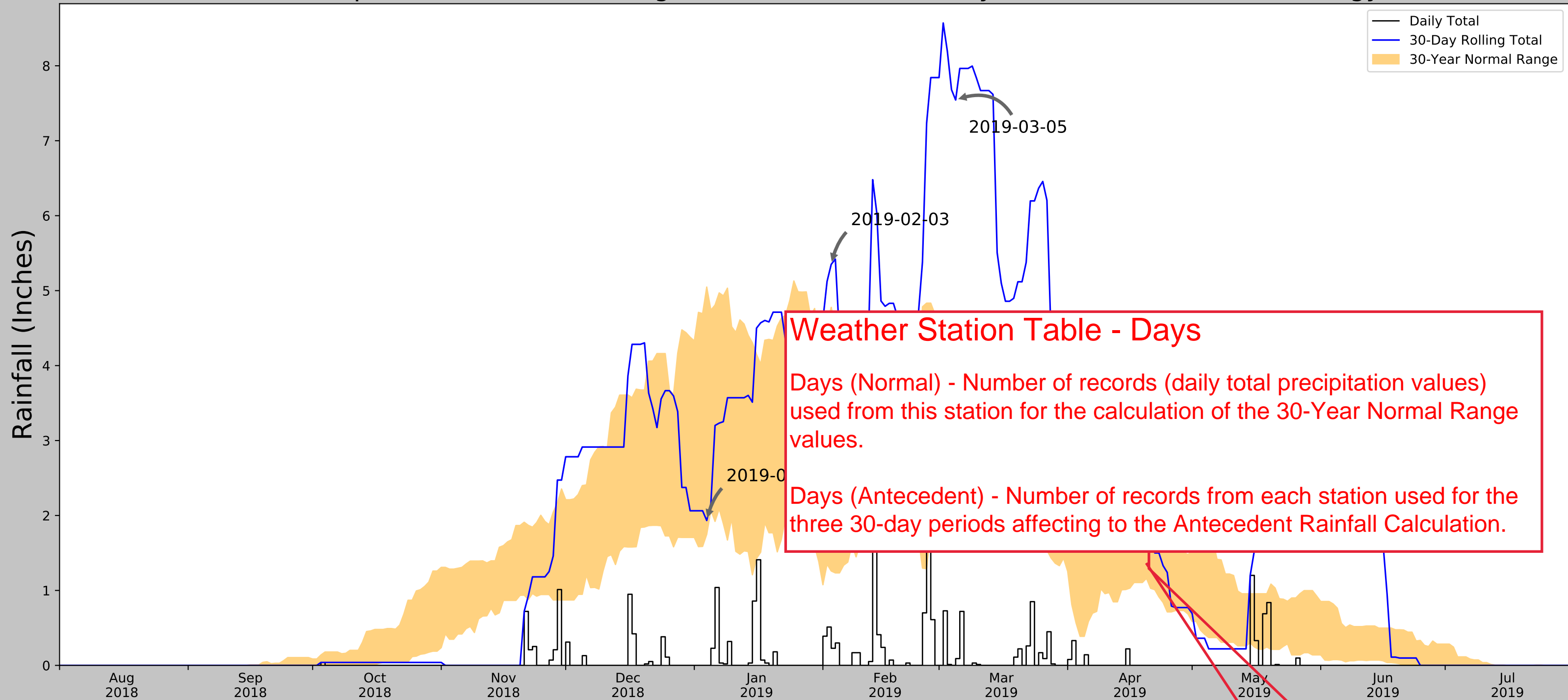


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