

RainIQ™ Release Notes & User Guide

July 2026 Release

This release introduces powerful new rainfall analytics designed to help you answer rainfall questions faster using the trusted National Weather Service data already collected by WaterWatch PRO in your account.

Using RainIQ

Simply click on the RainIQ icon in your dashboard.

Data Graphs Forecasts Reports **RainIQ** Assignments Settings

You'll see this display:



Verified rainfall analysis based on National Weather Service data for indicated locations

WHAT DO YOU WANT TO ANALYZE?

Average rainfall per day

CALCULATION METHOD

☒ All days (including dry days)

☐ Rain days only (≥ 0.01 inches)

LOCATION(S)

1514 Telfair Road

29 Palms 2001

4242 Hunter Road

Allentown

Amber

Artic Circle

Asheville

Asheville North

Asheville

TIME RANGE

Last 30 days

Data scope preview: 6/1/2026 to 6/30/2026

Analyze

Using RainIQ is very straightforward. Ask a question, select a location or locations from your account and a time period.

Here's a list of the possible query types:

- Average rainfall per day
- Average rainfall per month
- Wettest month in a selected period
- Number of days with rainfall $> X$ inches
- Maximum 24-hour rainfall
- Total rainfall for selected period
- Maximum hourly rainfall*
- Maximum rolling 24-hour rainfall*
- Compare rainfall to design storm (NOAA Atlas 14)*
- Total rainfall by storm event*

*- indicates a query only available at the Platinum level; all others are available for Silver and Gold service levels

RainIQ™ Release Notes & User Guide

Let's select number of days the location RDU exceeded a .5" threshold in the last 90 days:

WHAT DO YOU WANT TO ANALYZE?
Number of days with rainfall > X inches
THRESHOLD (OPTIONAL) .5 inches

LOCATION(S)
PNS
RDU
Riverside
SAC
Sage Woods
San Diego
SAV
SEA
SESWA Hilton

TIME RANGE
Last 90 days
Data scope preview: 4/3/2026 to 7/1/2026

Analyze

Headline Insight

There were 4 days with rainfall above 0.50 Inches in the selected window.
Period: 4/3/2026 to 7/1/2026
Based on observed rainfall totals for the selected period.

☐ Show specific dates and detail.

RDU

There were 4 days with rainfall above 0.50 inches in the selected window.

THRESHOLD

0.50 in

QUALIFYING EVENTS

4

MAXIMUM EVENT

1.20 in on 6/19/2026

To get more detail on this result, check the box marked “Show specific dates and detail”. You’ll see this display:

☒ Show specific dates and detail.

RDU

There were 4 days with rainfall above 0.50 inches in the selected window.

THRESHOLD

0.50 in

QUALIFYING EVENTS

4

MAXIMUM EVENT

1.20 in on 6/19/2026

Top rainfall days

Date	24-hour Rainfall (in)
6/19/2026	1.20
6/23/2026	1.17
5/22/2026	0.69
5/25/2026	0.60

Rainfall totals

May 2026

2

Jun 2026

2

Export CSV

Export PDF

It contains details on the days when this occurred. Note you can sort the values under the heading “Top rainfall days.” Under the heading “Rainfall totals,” you see a bar graph representing the months when this occurred and the number in each month.

RainIQ™ Release Notes & User Guide

CSV & PDF Exports

Click the button on the query page to either generate a CSV or PDF file based on the results of your query. You will receive:

- The same summary statistics shown on-screen
- The detailed records associated with the query
- Additional information intended for documentation and reporting

Tip: The on-screen display is designed for quick review and only displays up to the first 10 results on the left-hand side. Use the exported CSV or PDF whenever you need complete documentation of your analysis.

Multiple locations

You can make a query request for multiple locations by holding down the Ctrl key and selecting the locations you need.

IMPORTANT: RainIQ will only display data for the time period monitored by WaterWatch PRO. Say, for example, you make a 90-day request for a location with data for over a year and another that began last week. The results may be unreliable because one location doesn't have 90 days' worth of data.

If you select multiple locations, be sure their start date is the same. To find that out, go to Settings>Modify Locations, select the location and then the blue pencil, The display will show you the start date of the data for that location and when the location was added.

Update : Allentown

Location Name

Assign Contacts

Allentown

Latitude

40.6517

Longitude

-75.4441

24-Hour Rain Threshold (Inches)

0.25

RapidRain Threshold (Inches)

0.1

Date data began

11/1/2024

Date Location Added

11/10/2024

Update Location

Past Data

Delete Location

Note in this example, the location was added Nov 11, 2024, but whenever a location is added, WaterWatch PRO automatically back-fills data to the beginning of that month.

RainIQ™ Release Notes & User Guide

PLATINUM LEVEL Query: Total Rainfall by Storm Event

One of RainIQ's most powerful features is identifying individual storm events. With it, you can determine how much time must pass with no rainfall before RainIQ considers the next rainfall to be a new storm event.

Example

If the Gap is set to **6 hours**:

Rain begins → stops → starts again **3 hours later**

✓ RainIQ considers this **one storm event**.

Rain begins → stops → starts again **7 hours later**

✓ RainIQ considers this **two separate storm events**.

What Starts a Storm Event?

A storm event begins with any measurable rainfall **greater than zero**.

The event continues until rainfall stops long enough to exceed your selected Gap value.

This allows you to analyze:

- Number of storm events
- Largest storm events
- Storm duration
- Rainfall per event

using a definition that best matches your project.

Choosing the Right Gap

Smaller Gap values create **more storm events** because rainfall doesn't have to stop very long before a new event begins. Whereas, a Larger Gap values combine nearby rainfall into fewer, longer storm events.

Example:

Obtain the total rainfall by storm event for the location Civic Center with a gap of 2 hours

Civic Center

The largest rainfall event at Civic Center produced 3.26 inches over 5 hours.

EVENT COUNT	LARGEST EVENT TOTAL	GAP BOUNDARY
38	3.26 in	2 hours

Now, the same query, but for a 6 -hour gap:

Civic Center

The largest rainfall event at Civic Center produced 3.26 inches over 5 hours.

EVENT COUNT	LARGEST EVENT TOTAL	GAP BOUNDARY
21	3.26 in	6 hours

RainIQ™ Release Notes & User Guide

So, in summary:

- **2-hour Gap** → More individual events
- **6-hour Gap** → Fewer, larger events

Neither setting is "correct" - they simply answer different questions.

Decimal Precision

Some rainfall totals may display two decimal places while others display three. This is normal.

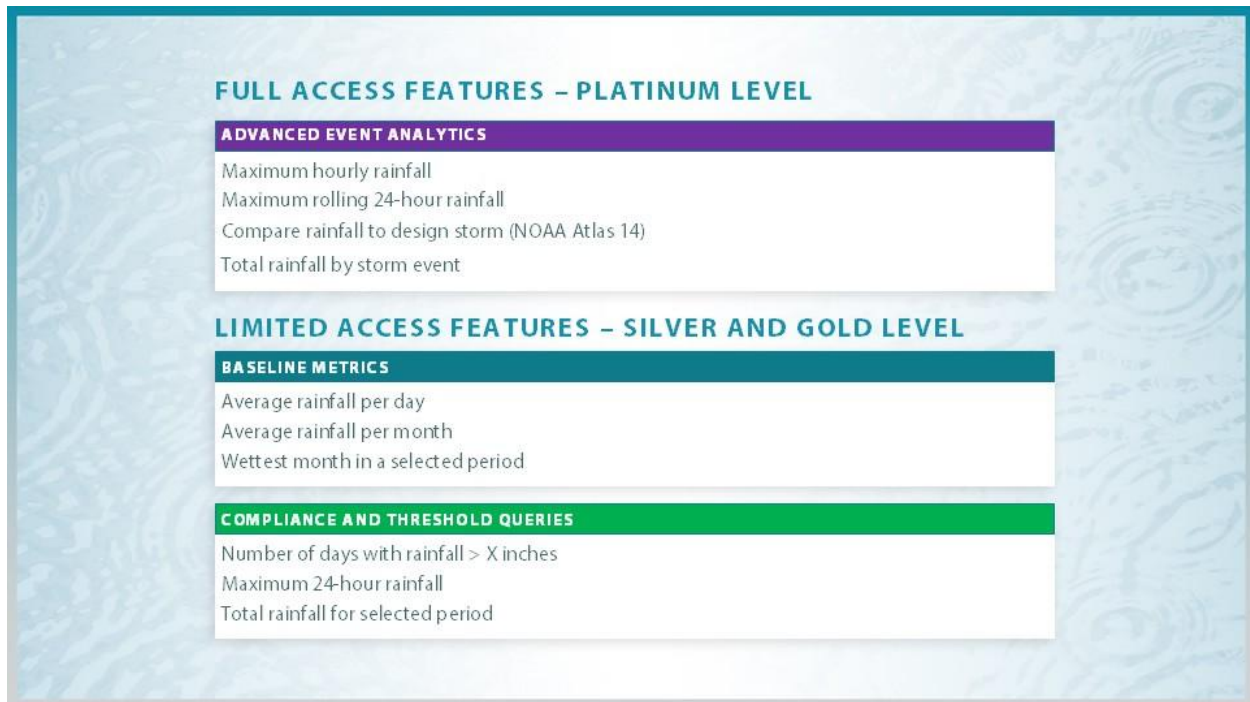
RainIQ displays the precision required for the calculated value and does not add unnecessary trailing zeros.

For example:

- 3.20
- 3.257

Both values are equally valid.

Subscription Levels - RainIQ features are available based on your subscription plan.

An infographic titled 'FULL ACCESS FEATURES – PLATINUM LEVEL' and 'LIMITED ACCESS FEATURES – SILVER AND GOLD LEVEL' set against a background of water ripples. The Platinum level features are listed under 'ADVANCED EVENT ANALYTICS' and include maximum hourly and rolling 24-hour rainfall, comparison to NOAA Atlas 14 storms, and total rainfall by storm event. The Silver and Gold levels are grouped under 'LIMITED ACCESS FEATURES' and include 'BASELINE METRICS' (average daily/monthly rainfall, wettest month) and 'COMPLIANCE AND THRESHOLD QUERIES' (days with rainfall above a threshold, maximum 24-hour rainfall, and total rainfall for a period).

FULL ACCESS FEATURES – PLATINUM LEVEL	
ADVANCED EVENT ANALYTICS	
Maximum hourly rainfall	
Maximum rolling 24-hour rainfall	
Compare rainfall to design storm (NOAA Atlas 14)	
Total rainfall by storm event	
LIMITED ACCESS FEATURES – SILVER AND GOLD LEVEL	
BASELINE METRICS	
Average rainfall per day	
Average rainfall per month	
Wettest month in a selected period	
COMPLIANCE AND THRESHOLD QUERIES	
Number of days with rainfall > X inches	
Maximum 24-hour rainfall	
Total rainfall for selected period	

If you upgrade your subscription, the additional RainIQ features become available immediately after your upgrade is processed.

Need Help?

Simply contact WaterWatch PRO Support at support@waterwatchpro.com.