


















Comparison between the [National Weather Service \(NWS\) Real-Time Quantitative Precipitation Estimates \(QPE\) product](#) and SPASRT precipitation grids.

Feature	NWS QPE	SPASRT Precip.
An operational tool with 99.99% uptime		
Gauge-adjusted radar-estimated rainfall based on daily & hourly rain gauge data		
Available for the continental United States		
Available every hour*		
Available in a variety of formats		
Very high (1km) spatial resolution	4 km **	
Latency 2-3 minutes***	50 minutes	
Rainfall estimates across/in mountainous terrain and other radar-blocked areas	Only available once a day for 24-hr period	
Uses sophisticated quality control algorithms to validate rain gauge data in real-time	Manually evaluated	
Computes and applies dynamic radar-rainfall relationship (ZR) in real-time		
Gauge-adjusted/calibrated rainfall grid every 5-minutes		
Completely customizable for your needs		

* Only every 6-hours for western U.S.

** Non gauge-corrected NWS QPE at 1km is available.

*** SPASRT latency based on 5-minute SPASRT rainfall grids. Latency of SPASRT 1-hour rainfall grids is ~20 minutes.