


# Summary: Legacy PPS Algorithm



Radar Data

**1.** Obtain Reflectivity (Z), Velocity (V) , and Spectrum Width (SW) from the Radar Data Acquisition Unit.




Radar Echo Classification Algorithm

**2.** Use Z, V, and SW to identify potential clutter.



Enhanced Precipitation Preprocessing Algorithm

**3.** If clutter “free” and unblocked bins are  $> 20$  dBZ over  $80 \text{ km}^2$ , build hybrid scan reflectivity and digital hybrid scan reflectivity.



Rain Rate Algorithm

**4.** Use pre-set Z-R Relationship to convert those dBZ bins to rain rate and apply rain rate cap for any hail.



Rain Accumulation Algorithm

**5.** Take rain rates and accumulate continuously, hourly, or over user-defined durations.