



3RWW/ALCOSAN Rainfall Data Flow Schematic

DRAFT as of December 26, 2018



NEXRAD

Radar
(Moon Township)

33 3RWW Rain Gauges in Allegheny County collect rainfall data in 15 minute increments and transmit via radio using the Legacy Alert protocol to dedicated server at 3RWW (or ALCOSAN downloads manually if there is a transmission problem)

3RWW

Near Real Time Data
(NRT)

Data is provisional (gauge and radar issues will be corrected in Calibrated Radar Rainfall data)

DataWise

Vieux

Provides 15 minute, 1km pixel Gauge Adjusted Radar Rainfall (GARR) as a CSV file to the Vieux FTP site

Data is provisional (gauge and radar issues will be corrected in calibrated Radar Rainfall data)

Pushed to Vieux every 15 minutes via FTP

Decoded data forwarded to DataWise cloud server

Data sent to National Weather Service

End of Month Data (EOM)

to ALCOSAN for Preliminary Review
(Joe Fedor)

Meteorology Department at Penn State uses API in DataWise to retrieve and process data.

Teragon

Pulls data from Vieux FTP site

3RWW

Formats so that Teragon can upload

3RWW Website

as **Real Time Gauge Adjusted Rainfall Data**

Teragon

(Jordan Tsvetkoff)

Vieux

Performs quality control (also using NWS-ASOS & USGS Data).
NWS radar data portal is operated for the private sector

Uploads to Vieux FTP site and Dashboard

3RWW Website

As End of Month **Calibrated Radar Rainfall Data**