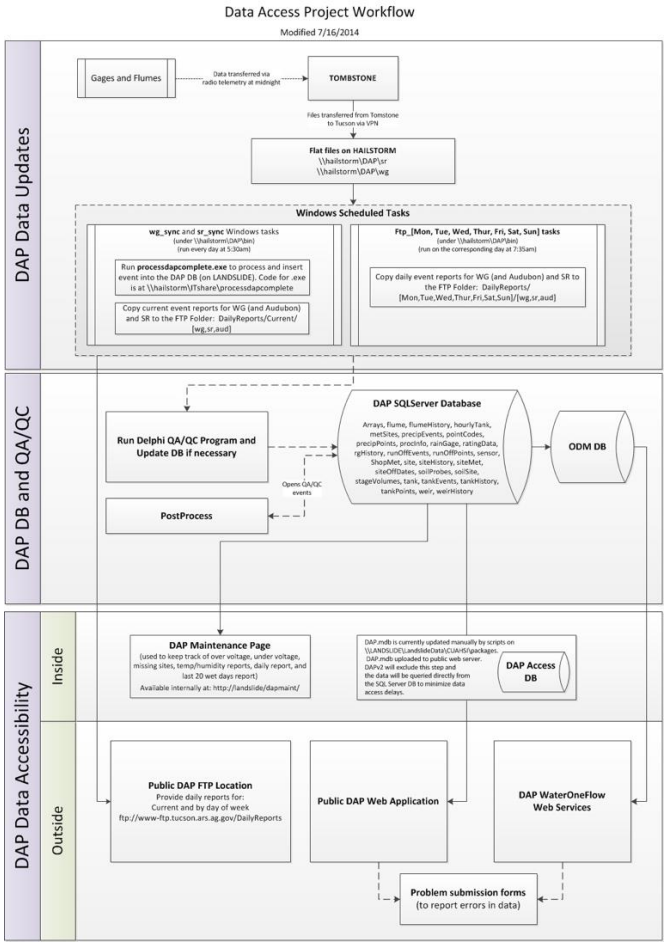
DAP QA/QC Processes followed at Walnut Gulch Experimental Watershed
Modified 11-15-2016

This document aims at describing the current workflow that is followed to QA/QC the data that is obtained form rainfall, runoff, and meteorological instrumentation at the Walnut Gulch Experimental Watershed and at at the Santa Rita Experimental Range.



Current DAP workflow

Rainfall and Runoff

Currently, DAP uses a program built with Delphi in order to check precipitation and runoff events. Chad and Carl are the two key persons that run this process.

For precipitation and runoff, the program uses two basic codes for approval: **Accepted** and **Not Accepted**. Under “Not Accepted”, there are a series of reason code. These are as follow:

code	description
-1	All Data not Present
0	Not Quality Checked
1	Quality Checked Good
2	Maintenance
3	Vandalism
4	Animal Disturbance
5	Malfunction
6	Unknown
7	CONDENSATION
8	OUTSIDE DISTURBANCE
9	rain on flume
10	Shovel left in intake
11	Not an event
12	Baseflow
13	Bucket touching side of rain gage
14	cone fell in bucket
15	Intake full of sand not a flow
16	fire destroyed wires on rain gage
17	hole in bucket depth is small.
18	No corresponding precipitation
19	No Volumes Yet
20	No Data for ths Year
21	Volumes rough calc
25	Single Point Event
23	Zero or Less Max Depth
24	Weir Level Set Too Low
26	Zero Volume Event
27	Insufficient precipitation to Justify event
22	Fall in Tank Level

Once Chad check for new precipitation and runoff events, he let Jason know and Jason runs a post-process script to update the database with any changes.

Meteorology