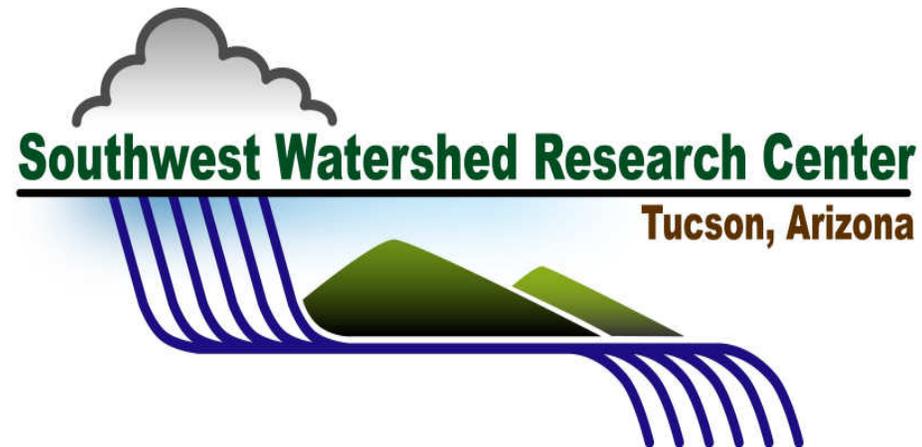


# Online Data Access

Southwest Watershed Research Center

## Southwest Watershed Research Center Data Access Project

**DAP development team:** Eric Anson, Jason Wong, Carl Unkrich, Tim Keefer, Mary Nichols, Jeff Stone, Susan Moran, Rudy Ortiz, Daniel Esselbrug, Mark Nearing



## Core Monitoring Network - Walnut Gulch



Weighing Bucket Raingage



Walnut Gulch Supercritical Flume



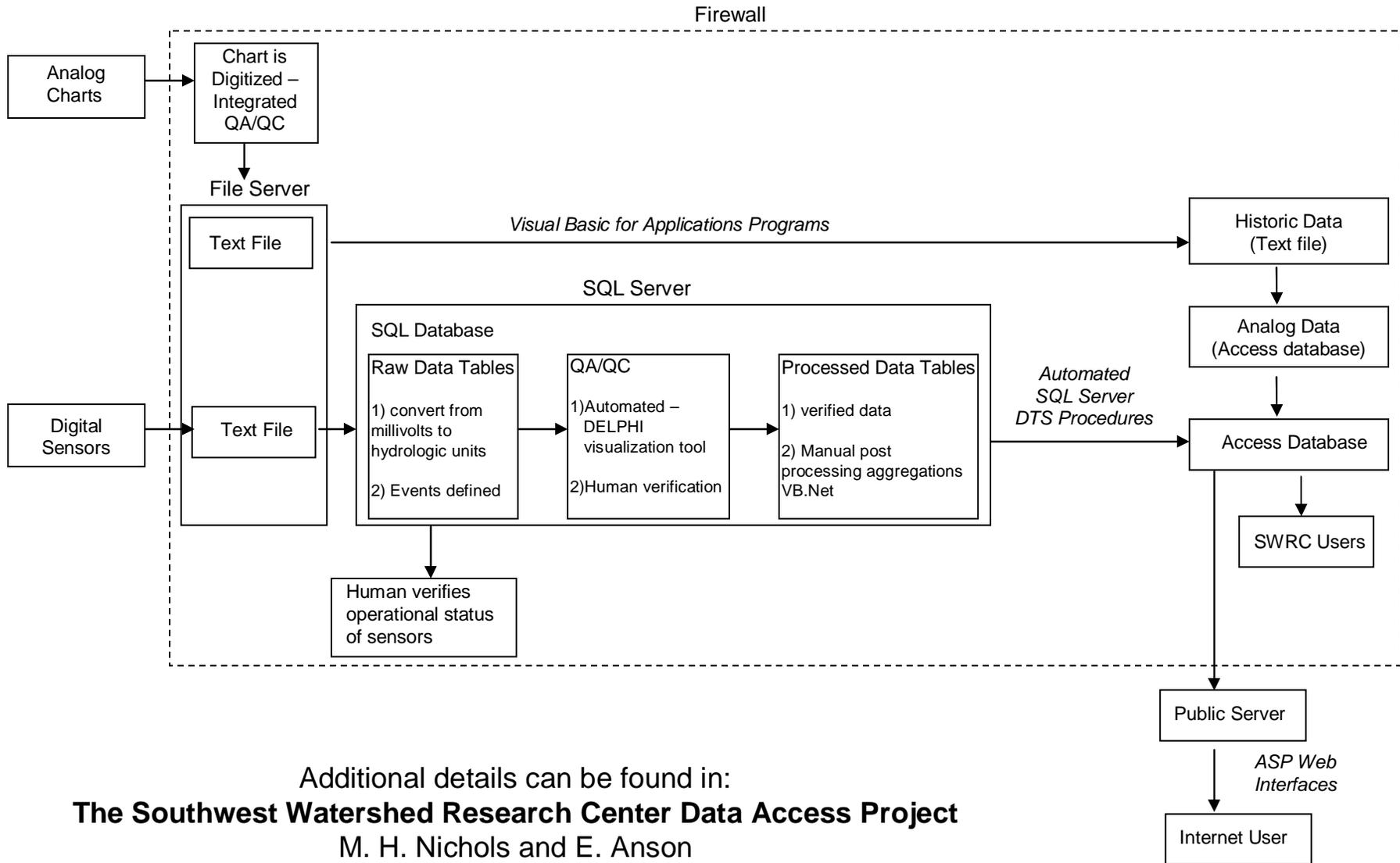
“Santa Rita” Supercritical Flume with Traversing Slot Sediment Sampler



Meteorological Station



# DAP – data flow diagram



Additional details can be found in:  
**The Southwest Watershed Research Center Data Access Project**  
 M. H. Nichols and E. Anson  
 WRR Special Issue

# DAP Website

Designed based on a data catalogue

Additional data details are documented in listed publications

SWRC Online Data Access Main - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://www.tucson.ars.ag.gov/dap/>

## Online Data Access

Southwest Watershed Research Center

The SWRC operates the Walnut Gulch Experimental Watershed in southeastern Arizona as an outdoor laboratory for studying semiarid rangeland hydrologic, ecosystem, climate, and erosion processes.

This website is currently undergoing an extensive update in preparation for the 2007 special issue publication of Water Resources Research highlighting WGEW Research and Data. The layout and/or content of this page are expected to change.

### SWRC Data Catalogue

#### Core Monitoring Networks

Precipitation  
[Form based data request](#)  
[Map based data request](#)

Runoff  
[Form based data request](#)  
[Map based data request](#)

Sediment  
(data link pending)

Meteorologic and Soil Moisture  
(data link pending)

#### Dataset Documentation

(contributions to future WRR Special Issue Highlighting WGEW Research. Links will be provided upon publication)

Goodrich, D.C., T.O. Keefer, C.L. Unkrich, M.H. Nichols, H.B. Osborn, J.J. Stone, and J.R. Smith, Long-term precipitation database, WGEW, Arizona, USA, *Water Resources Research*,

Stone, J.J., M. Nichols, D.C. Goodrich and J. Buono, Long-term runoff database, WGEW, Arizona, USA, *Water Resources Research*.

Nichols, M., J.J. Stone and M.A. Nearing, Long-term sediment database, WGEW, Arizona, USA, *Water Resources Research*

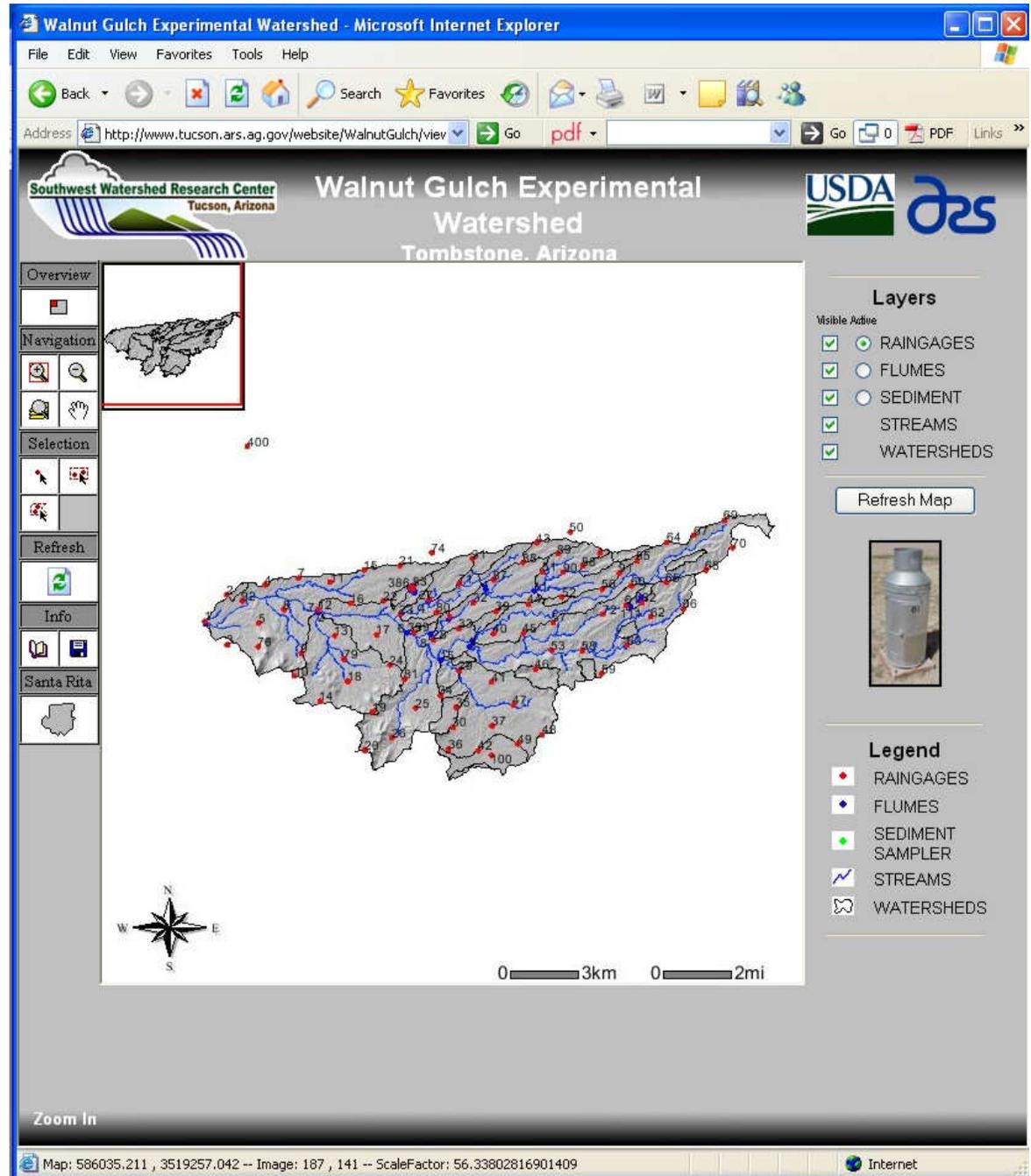
Keefer, T.O., M.S. Moran and G.B. Paige, Long-term meteorological and soil-dynamics database WGEW, Arizona, USA, *Water Resources Research*

Done Internet

# DAP Website

Map based data access  
based on ARC-IMS

Includes both WG and  
the SRER data



# DAP Website

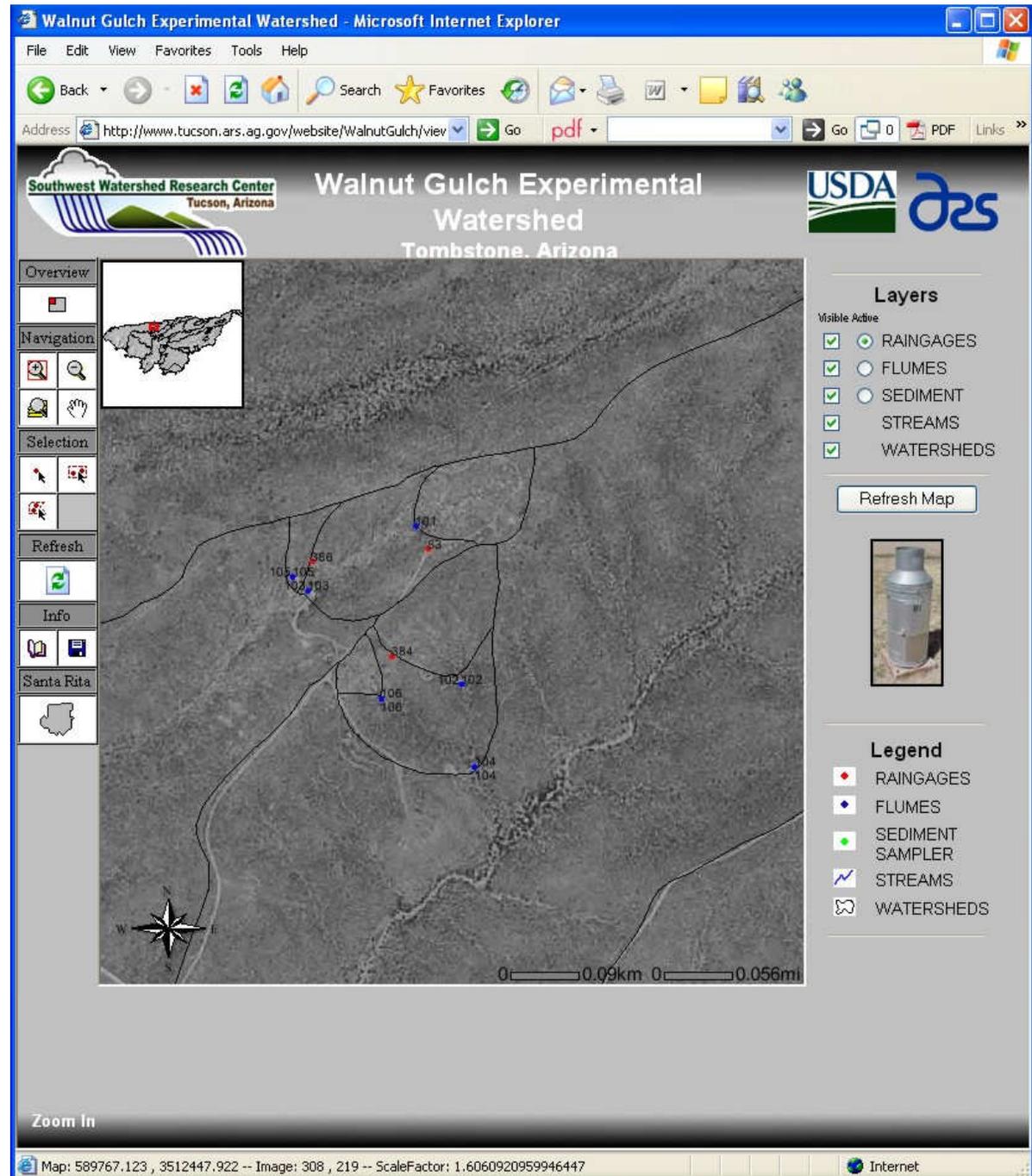
Detail of Lucky Hills subwatersheds shown

Available data include:

Precipitation

Runoff

Sediment



## The Data Access Project is a work in progress

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### Highest priority core data –

Rainfall	- ongoing data stream
Runoff	- ongoing data stream
Sediment	– current focus (95-05 WG)
Meteorologic	– current focus
Soil Moisture	

### GIS Data Layers – Downloadable images – work in progress

Vegetation  
CO2 and Water Flux  
Ecological Sites  
Geology  
Soils  
Geomorphology

Future efforts will include integrating these GIS layers with ARCIMS

### Remote Sensing Data