

5.5.1 Aguirre Valley and Greene Wash

The watershed originates at Kitt Peak in the Coyote and Quinlan Mountains. The Roskruge Mountains and Silver Bell Peak bound it on the east. On the west, the North Comobabi and Santa Rosa Mountains bound it. The washes draining this watershed disappear into deep alluvium just north of the County border south of Tat Momoli Dam at mostly dry Lake St Claire. For the purposes of this study, Greene wash watershed is included with Aguirre Valley.

This watershed is tributary to the Lower Santa Cruz River. It originates just north of the Tohono O’odham Nation boundary and terminates south of the community of Arizona City in Pinal County. The Greene Wash watershed drains the Sawtooth Mountains on the West and the Santa Cruz River Flats on the east. Not sure I understand this sentence. Beyond the Tohono O’odham traditional farming community of Chu Chui and Arizona City, the USGS maps do not show the wash as it sinks into the deep alluvium farmlands. Much of this watershed is within the Tohono O’odham Nation; it is comprised of 478,336 acres (747.4 square miles).

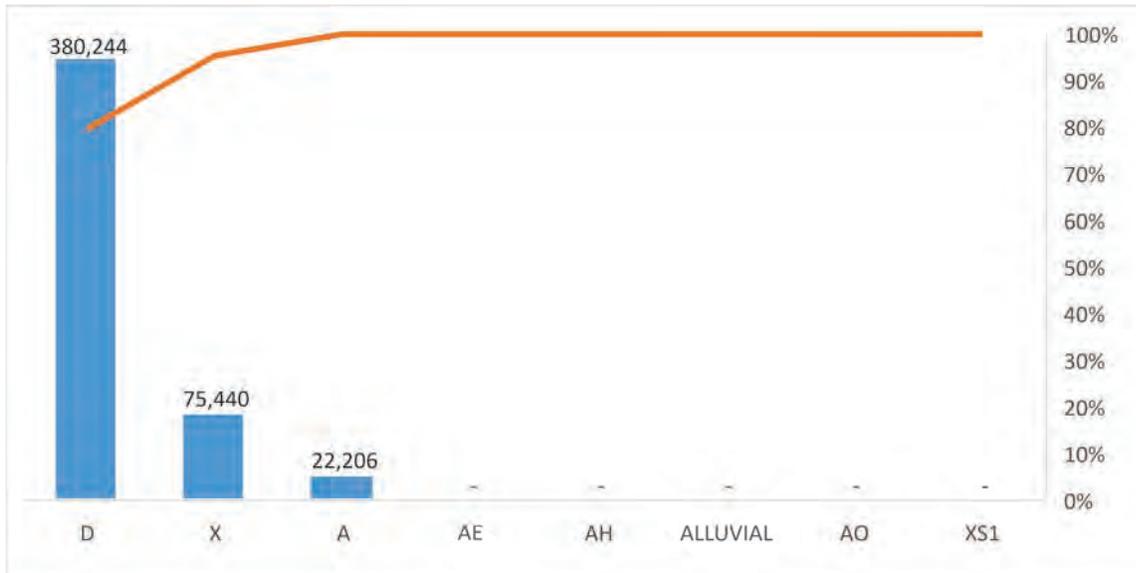
Figure 184 - Aguirre Valley Watershed Map



5.5.1.1 Flood Characteristics

There is 22,206 acres of SFHA Zone A in this watershed.

Figure 185 - Aguirre Valley Watershed Federal Floodplain Designations

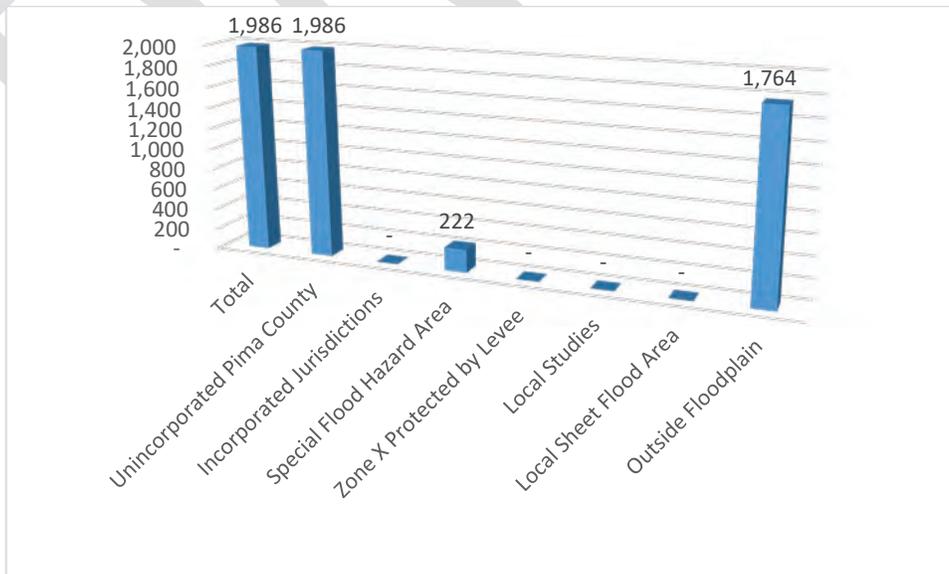


There are no USGS station, ALERT gages or regulatory discharge locations within the Greene Wash watershed.

5.5.1.2 Existing Development & Infrastructure Trends

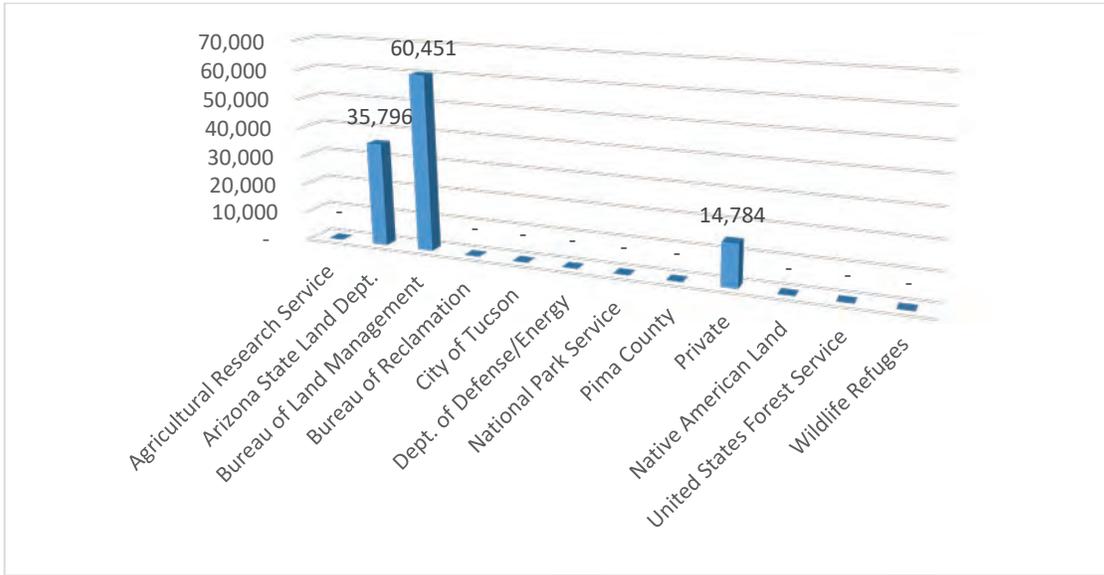
The chart below shows the population distribution between incorporated and unincorporated areas. This chart also shows the distribution of residents within known floodplains.

Figure 186 - Aguirre Valley & Greene Wash Watershed Population Distribution



The following figures show ownership and land use distribution in this watershed.

Figure 187 - Aguirre Valley & Greene Wash Watershed Ownership in Acres



Clearly public lands management and farmland are the land use drivers in this watershed.

Figure 188 - Aguirre Valley Watershed Land Use in Acres

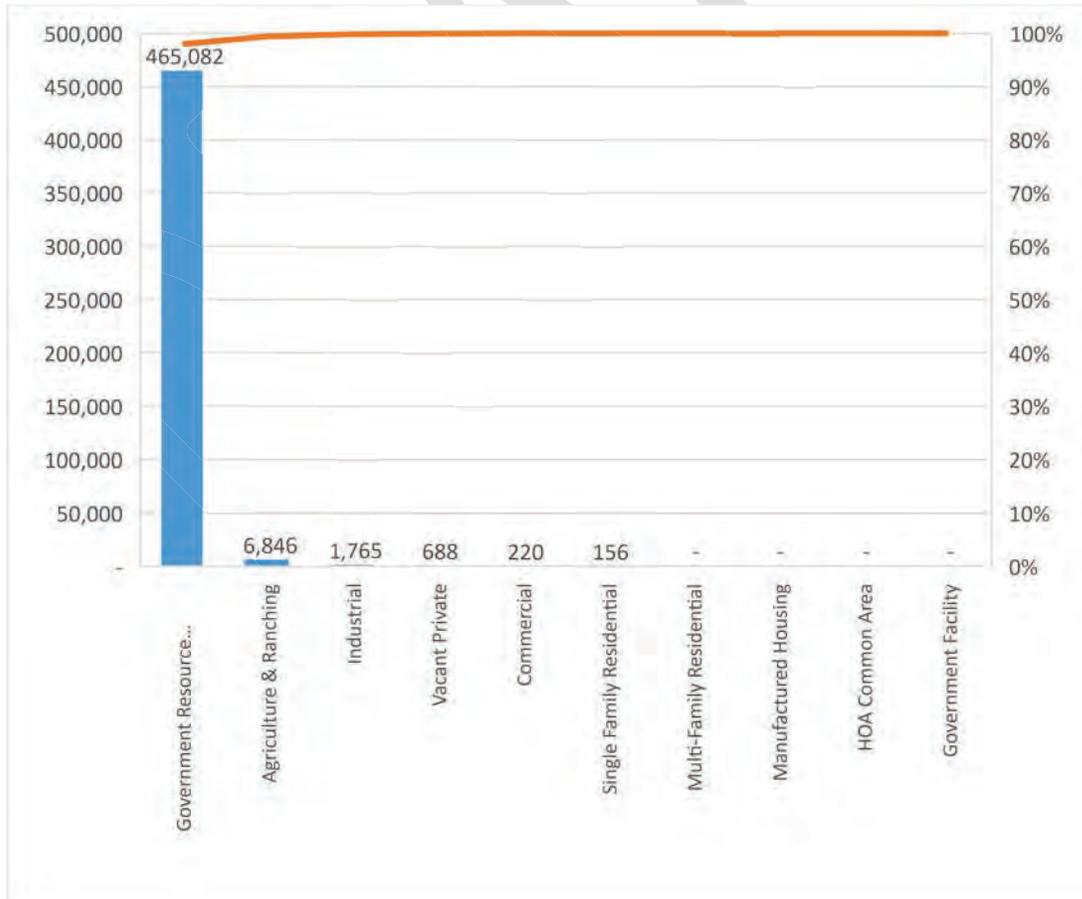
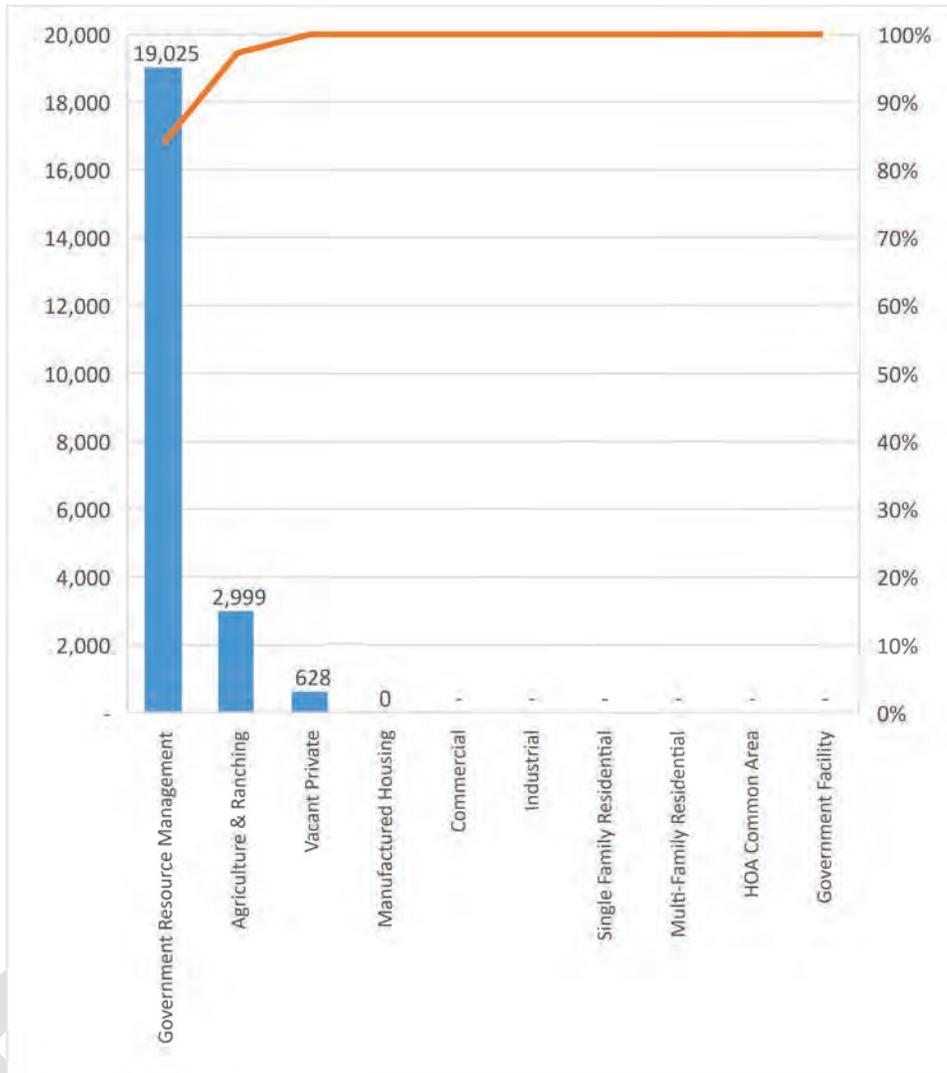
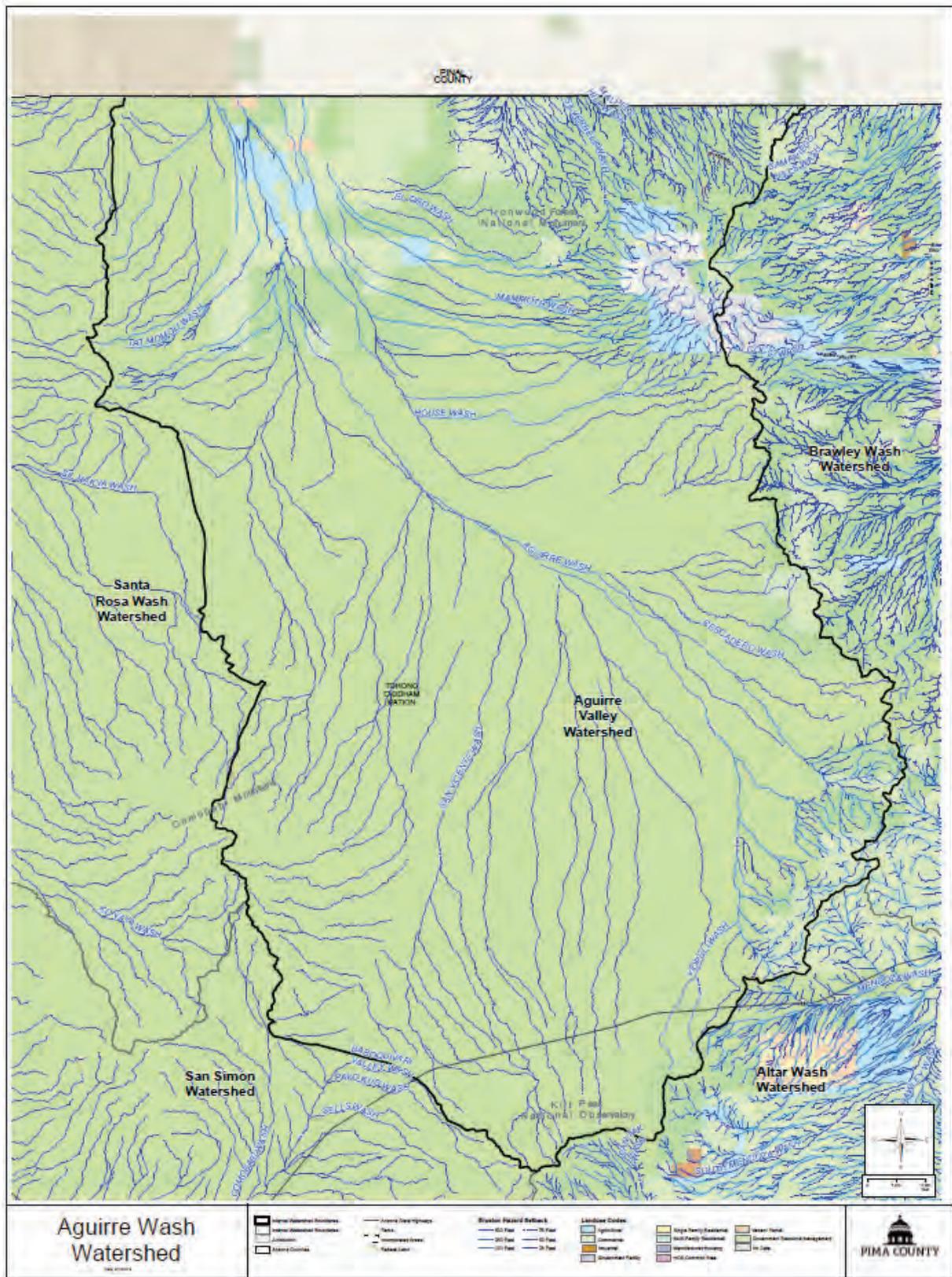


Figure 189 - Aguirre Valley and Greene Wash Floodplain Land Use



There is 3,182 acres of agricultural land uses within federal floodplains in this watershed. As indicated on the land use map below most of the watershed is within the Tohono O’odham Nation and is undeveloped with the exception of scattered villages, grazing and limited mining. As shown on the land use map, remaining areas within unincorporated Pima County are either agricultural, federal preserves, or vacant desert.

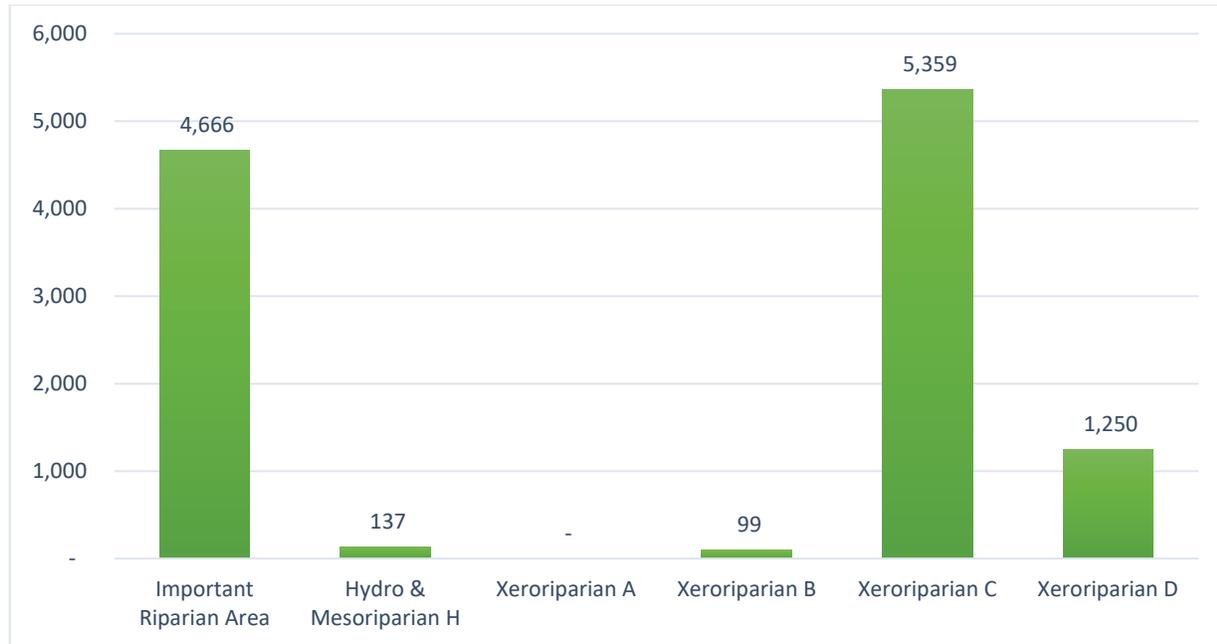
Figure 190 - Aguirre Valley Land Use Map



5.5.1.3 Riparian Habitat and Natural Areas

As shown on the figure below, there are 6,845 acres of Pima County Regulated Riparian Habitat in this watershed. There are also 52,319 preserved acres in this watershed, including 8,564 in regulatory floodplain.

Figure 191 - Aguirre Valley & Greene Wash Watershed Riparian Habitat in Acres



5.5.1.4 Historic Floodplain Management Approach

There is no District maintenance responsibility in this watershed. There are also no USGS stations or Pima County ALERT gages in this area

Because this watershed is predominately rural, the management approach has been limited. Identification of flood risk is limited to the approximate FEMA flood zone and the dam inundation map(s). The District specifies an erosion hazard setback from the top of bank of Arivaca Creek of 100 feet, and has not completed a detailed floodplain study. The Program for Public Information identifies a need to expand outreach in rural areas wherein permitting and accessibility are frequent concerns.

5.5.1.5 Needs - Capital Improvement

For each watershed; monitoring, frequently flooded structures and properties subject to damage, exposed infrastructure, and safety concerns have been described in full detail in the District's Flood Response Field Manual (April 2019). Each of the areas so identified have addresses and geodetic coordinates associated with them and District personnel have them mapped in the Geographic Information System used. For planning purposes, specific items of concern follow; the complete report is in Appendix D.

The protocol identifies no data gathering needs, frequently flooded structures, and properties subject to damage or infrastructure issues.

The District completed no projects during the prior five years, and none planned for the next five years.

5.5.1.6 Floodplain Management

Future needs identified by District staff include:

- Wide A Zone
- Access

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