

Central Yavapai Highlands Water Resources Management Study
Technical Working Group
Thursday, June 11, 2009
Meeting Minutes

Attendees:

Doug Von Gausig – Clarkdale	Greg Kornrumpf - SRP
Robert Hardy - Cottonwood	Rebecca Davidson - SRP
Jane Moore – Jerome	Loyd Barnett – YCWAC - TAC
Jim Holt - Prescott	Abe Springer – NAU
John Munderloh – Prescott Valley	John Rasmussen - YCWAC
Charles Mosley – Sedona	Leslie Graser – ADWR
Stanley Bullard – Camp Verde Water Sys	Vivian Gonzales - Reclamation
Jeanmarie Haney - TNC	Leslie Meyers – Reclamation

Agricultural Demand

Four data sets were previously discussed by the TWG as a means of estimating agricultural water use in the study area. Existing data includes irrigated acreage estimates completed by ADWR (2000) for the entire study area, YCWAC (2003) for the Big Chino sub-basin, and ADWR (NDVI – 2009) for the Middle Verde sub-basin, and ADWR IGR (water volume in AF) reports (2006) in the Little Chino and Upper Agua Fria sub-basins. Data from each of the sources were compared and presented to the TWG. Some discussion and review of the GIS data ensued and it was decided that we would use the YCWAC, ADWR (NDVI) and ADWR IGRs. Acreage estimates were multiplied by average water duties outlined in the ADWR (2000) report – 3.15 for the Middle Verde and 4.0 for the Big Chino).

There was some discussion of surface water used for irrigation at Del Rio Springs and Granite Dells Ranch in the PrAMA.

Action Item: Leslie Graser will check Del Rio Springs on the 2005 and 2007 imagery and ask Connie Tucker (COP) if Granite Dells Ranch is reported in the COP water demand.

Estimated Available Water Supply

The TWG has decided to look at the three methods for estimating available water supply outlined below:

1. Assured and Adequate Water Supply – this method uses information compiled in the ADWR water atlas. ADWR has developed point files which can be clipped to the study and water planning areas. Volumes can then be summed for each water planning area. These volumes represent water determined to be legally and

continuously available (in 2008) through ADWR's administrative program. This data only pertains to residential water providers, so all other water uses (exempt and non-exempt wells and ag uses) are considered to be in a "status quo" condition (see discussion below) and are estimated to equal 2006 demand.

2. Status Quo – this method assumes that conditions resulting from all water use in 2006 are acceptable and may be continued in perpetuity. Therefore, available supply is equal to 2006 demand throughout the study area.
3. Long Term Volume – this method attempts to balance inflow and outflow throughout the study area. The volume of water used in the Prescott AMA prior to being determined to be "out of safe yield" would be considered the available supply for the AMA and the safe yield volume of water estimated (in ADWR's Verde 2000 Report) for the Verde Valley will be considered available there. The communities located in those areas will be responsible for coordinating the "balance" amongst themselves.

The TWG discussed the concept and methods for each of these methods.

It was decided that the volume of water calculated from the water atlas database did not include pre-existing conditions for water providers that do not have a "designation of assured water supply" (only COP, to date) within the AMA. John Munderloh suggested that all platted subdivisions existing prior to the 1980 Groundwater Management Act were grandfathered into the program. And all lots platted since that time had to have a assured water supply. Therefore, all lot's that have been platted within the AMA should be considered to have an assured supply and should be calculated accordingly.

Action Item: Leslie G. will review and coordinate with John Munderloh.

Additionally, the TWG discussed the matter of inadequate determinations outside of the PrAMA. It was assumed that sub-divisions with inadequate determinations would either require their homeowners to construct their own wells (which would be included in the exempt well count) or a larger non-exempt well or an HOA would be established for the subdivision (which would be included in the non-exempt well count). Therefore, all inadequate determinations will be excluded from the water atlas queries outside of the PrAMA.

Action Item: Leslie G. and Vivian will recalculate the volumes for the communities excluding inadequate determinations outside of the PrAMA.

Action Item: Leslie G., John R. Vivian and Leslie M. will work on a concept for the Long Term Volume Method for the July TWG meeting.

Review Phase I – Demand Analysis Table and Assumptions

The TWG review the Demand Analysis Table with its latest assumptions, including newly calculated AG water estimates. There was much discussion about the definitions used in the table and it was decided that we should expand the table to make it more useful and easier to understand. This will also be very helpful with the development of 2050 demands.

Action Item: Leslie M will expand the 2006 and 2050 demand columns to Municipal, Commercial/Industrial, and AG.

Next Meeting

Thursday, July 2, 2009

10:00 am

Yavapai County Board Room

10 South 6th St Cottonwood, AZ