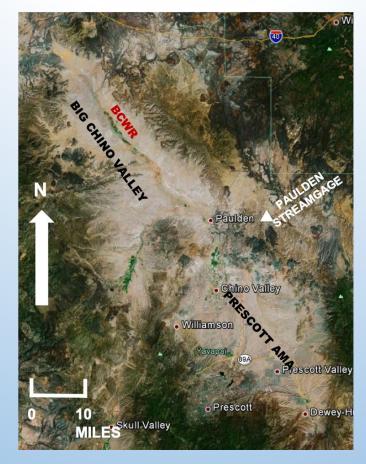


CWAGAZ, ORG



- Founded 2002 in Prescott
- Approximately 200 members
- Promotes a sustainable water future in the Upper Verde River Basin and the Prescott Active Management Area by educating the public, encouraging citizen action, and advocating responsible governmental decision-making
  - Monthly public programs
  - Programs to community groups
- Annual candidate forum
- Attend and monitor public meetings





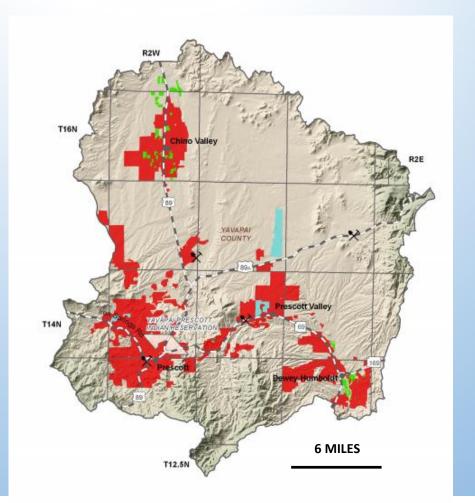


#### PRESCOTT ACTIVE MANAGEMENT AREA



# PRESCOTT ACTIVE MANAGEMENT AREA (PrAMA)

c. 2004

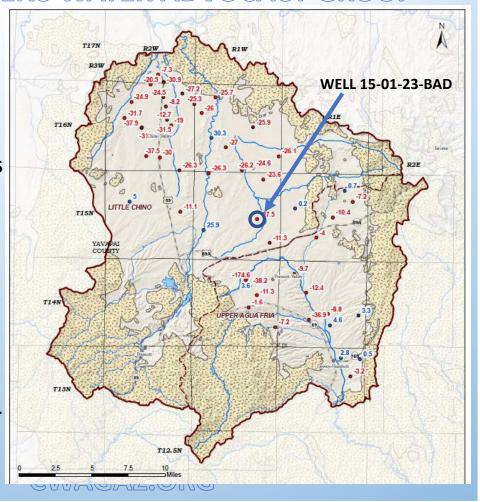




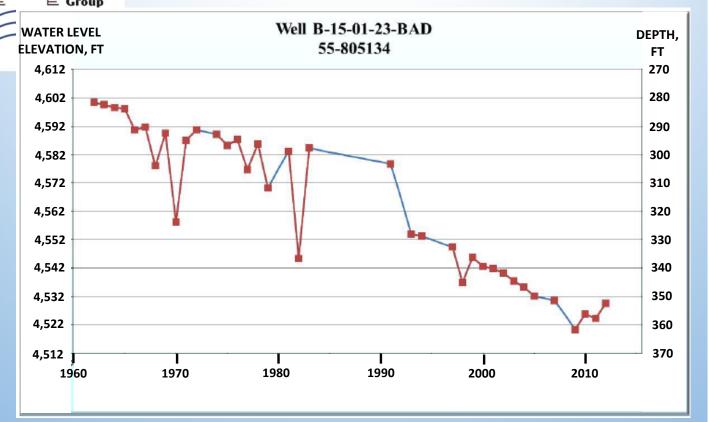
**Prama Monitored Wells** 

SHOWING WATER-LEVEL CHANGE, FT 1994-2010

WATER-LEVEL CHANGE
IN MONITORED WELLS
1939 TO PRESENT
MOSTLY –50 OR MORE FEET









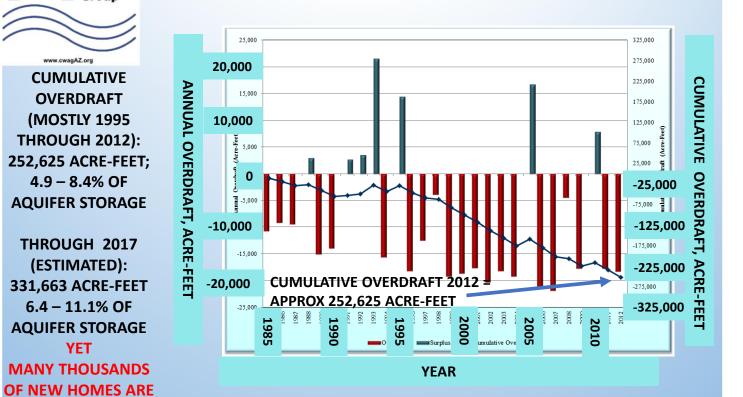
#### **CUMULATIVE OVERDRAFT** (MOSTLY 1995 **THROUGH 2012): 252,625 ACRE-FEET;** 4.9 - 8.4% OF **AQUIFER STORAGE**

THROUGH 2017 (ESTIMATED): **331,663 ACRE-FEET** 6.4 - 11.1% OF **AQUIFER STORAGE YET MANY THOUSANDS** 

"ON THE BOOKS"

### CITIZENS WATER ADVOCACY GROUP

Prama Overdraft 1985-Through 2012 and 2019





#### **UPPER VERDE RIVER**



#### **VERDE RIVER BASIN**

#### **VERDE RIVER:**

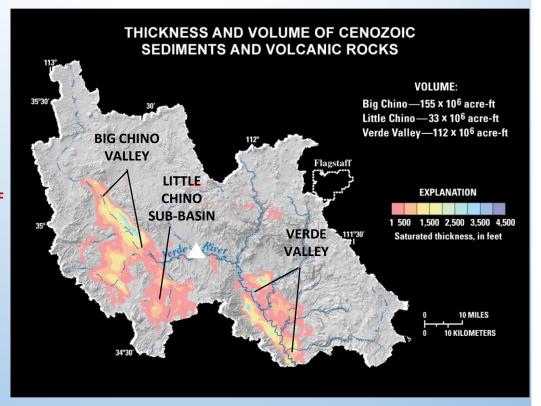
- ONE OF ARIZONA'S FEW REMAINING PERENNIAL RIVERS
- FLOWS ESSENTIALLY FREELY
  FROM ITS HEADWATER
  SPRINGS FOR APPROXIMATELY
  137 MILES TO HORSESHOE
  RESERVOIR
- THEN ANOTHER 51 MILES TO ITS CONFLUENCE WITH THE SALT RIVER NEAR FOUNTAIN HILLS





SATURATED THICKNESS OF YOUNG SEDIMENTS AND VOLCANIC ROCKS

PAULDEN STREAMGAGE



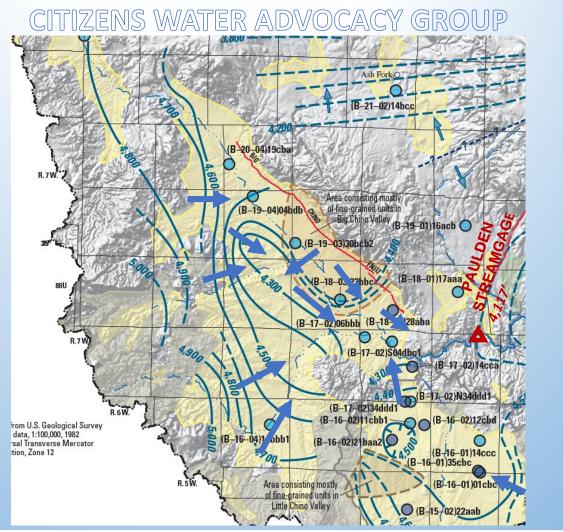


BIG CHINO VALLEY AND LITTLE CHINO SUB-BASIN

WATER-LEVEL CONTOURS, FT.

GROUNDWATER FLOW DIRECTION







## BIG CHINO VALLEY 4 THREATS TO THE UPPE VERDE RIVER

- BIG CHINO WATER RANCH
  - 8,000 AF/Y = 11 cfs
- BIG CHINO VALLEY PUMPED STORAGE PROJECT

INITIAL FILL 27,000 AF/Y = 15 CFS ANNUAL 1,200 AF/Y = 1.7 CFS

- POTENTIAL HOMES @ 4 HOMES/AF
   75,000 HOMES 18,750 AF/Y = 26 CFS
- NEW "BIG" AG
- VS

ANNUAL "LOW FLOW" AT PAULDEN GAGE 13,000 AF/Y = 18 CS 2010 THRU 2017;

11,000 AF/Y = 15 CFS IN 2018





#### POTENTIAL MITIGATING STRATEGIES

- Drought-tolerant landscaping;
- Residential, commercial-area, and public-land rainwater harvesting for landscape irrigation, non-potable indoor use, groundwater recharge;
- Minimizing groundwater exploitation by land-use management;
- Purchase of development rights (conservation easements) on yetundeveloped tracts;
- Storm-water management that supports aquifer recharge;
- Regulation of groundwater pumping;
- Formation of a Big Chino water-management district with authority to manage groundwater in the Big Chino Valley so as to protect domestic wells and the base flow of the Verde River