

Chino Valley



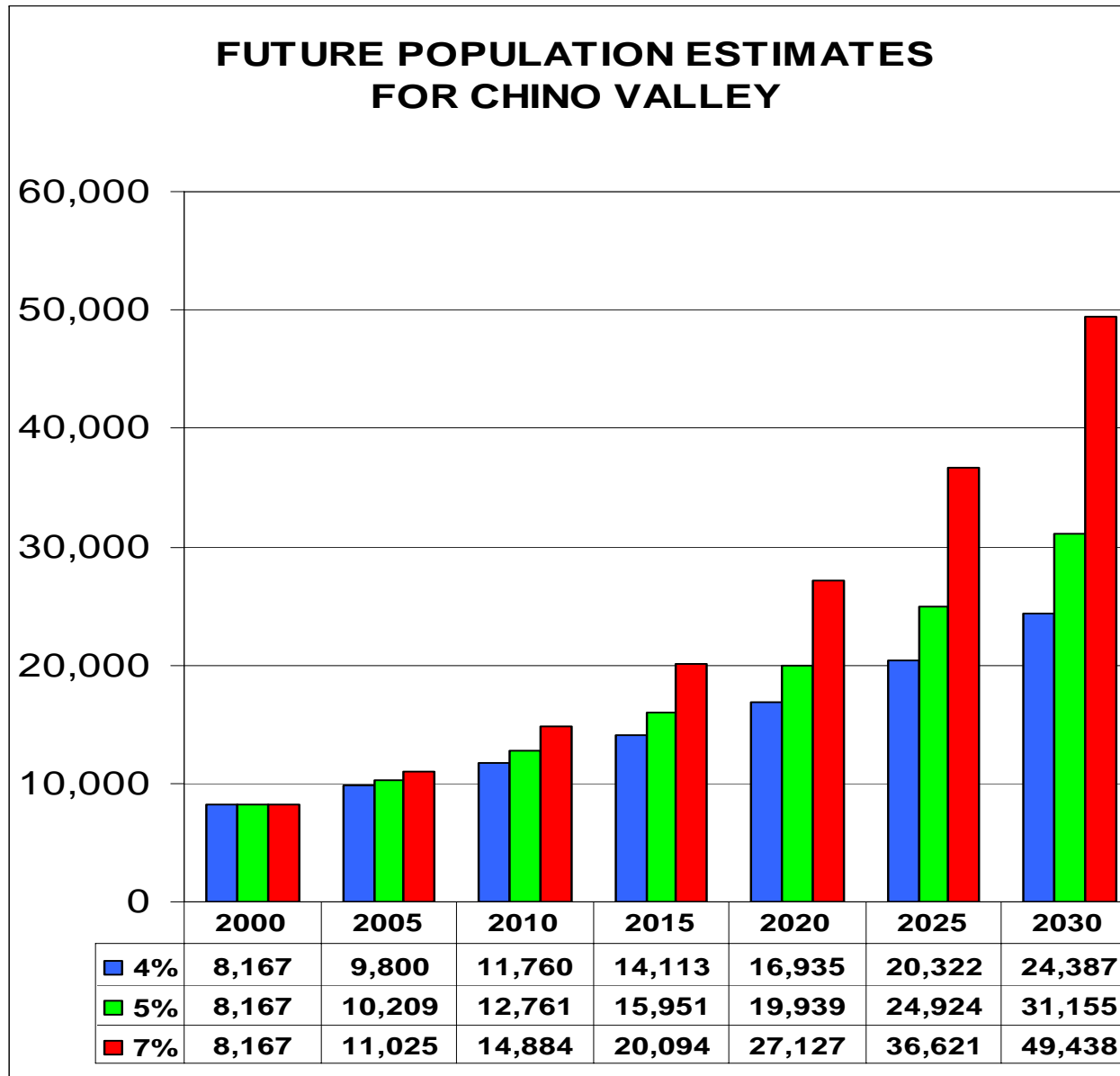
Water Resource Management Strategy

October 2005

PRIMARY OBJECTIVES

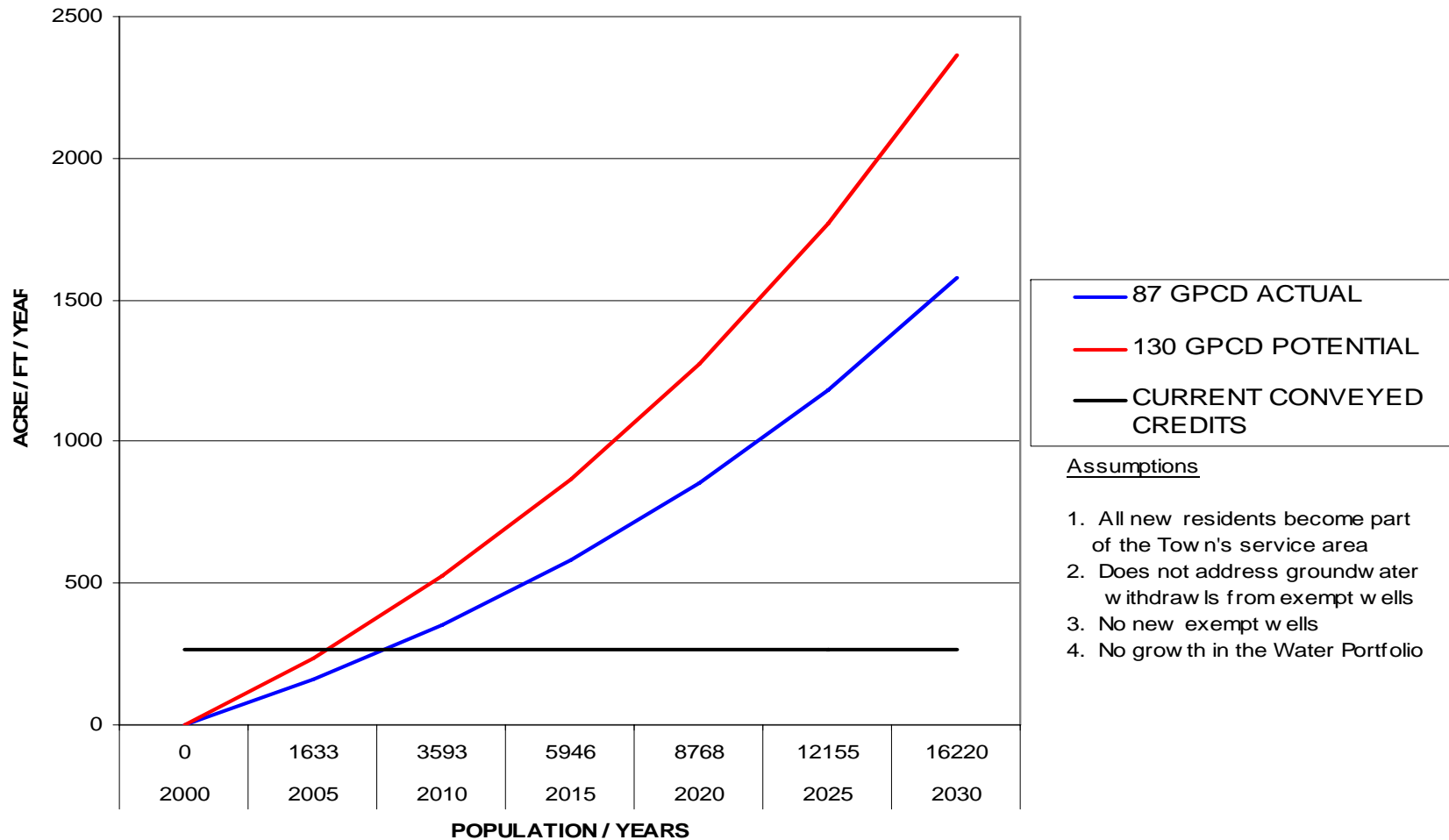
1. Expand Chino Valley's water portfolio
 - Pauldin water importation
2. Eliminate Chino Valley's share of overdraft
 - Replenish groundwater used by exempt wells
3. Increase capture of effluent for aquifer replenishment
 - Chino Meadows project
 - Old Home Manor recharge facility
4. Reduce water quality impacts
 - Reduction of septic systems
 - Well head protection program
5. Reduce well impacts to other water users
6. Maintain coordination between Prescott's and Chino Valley's service areas.
7. Create developer agreements that exceed water conservation and water use goals of the Third Management Plan
 - CV Ordinance No. 486 (4)a

POPULATION PROJECTIONS



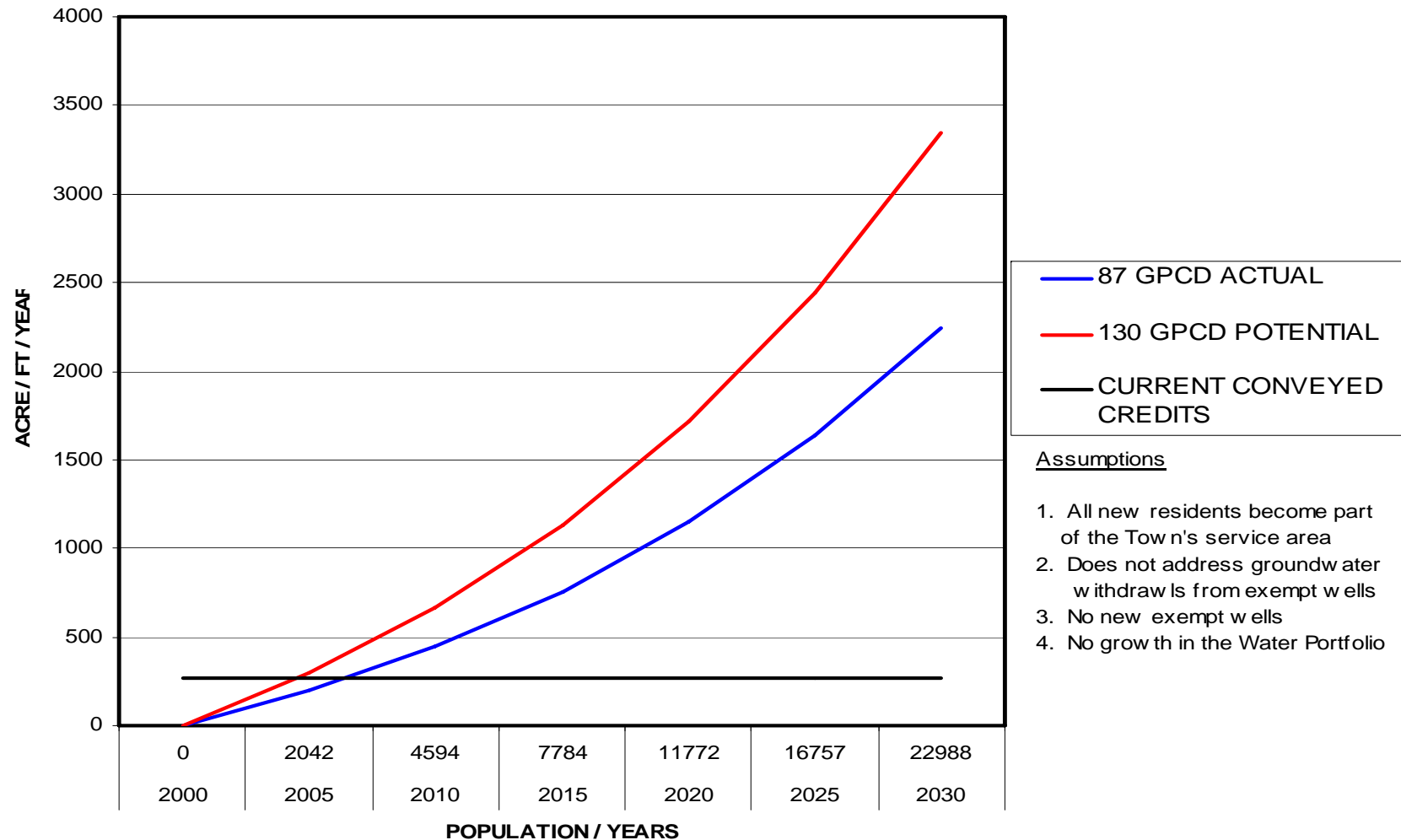
POTABLE WATER DEMAND

ESTIMATED WATER DEMAND AT 4 PERCENT GROWTH
WITH ONLY NEW RESIDENTS SERVED



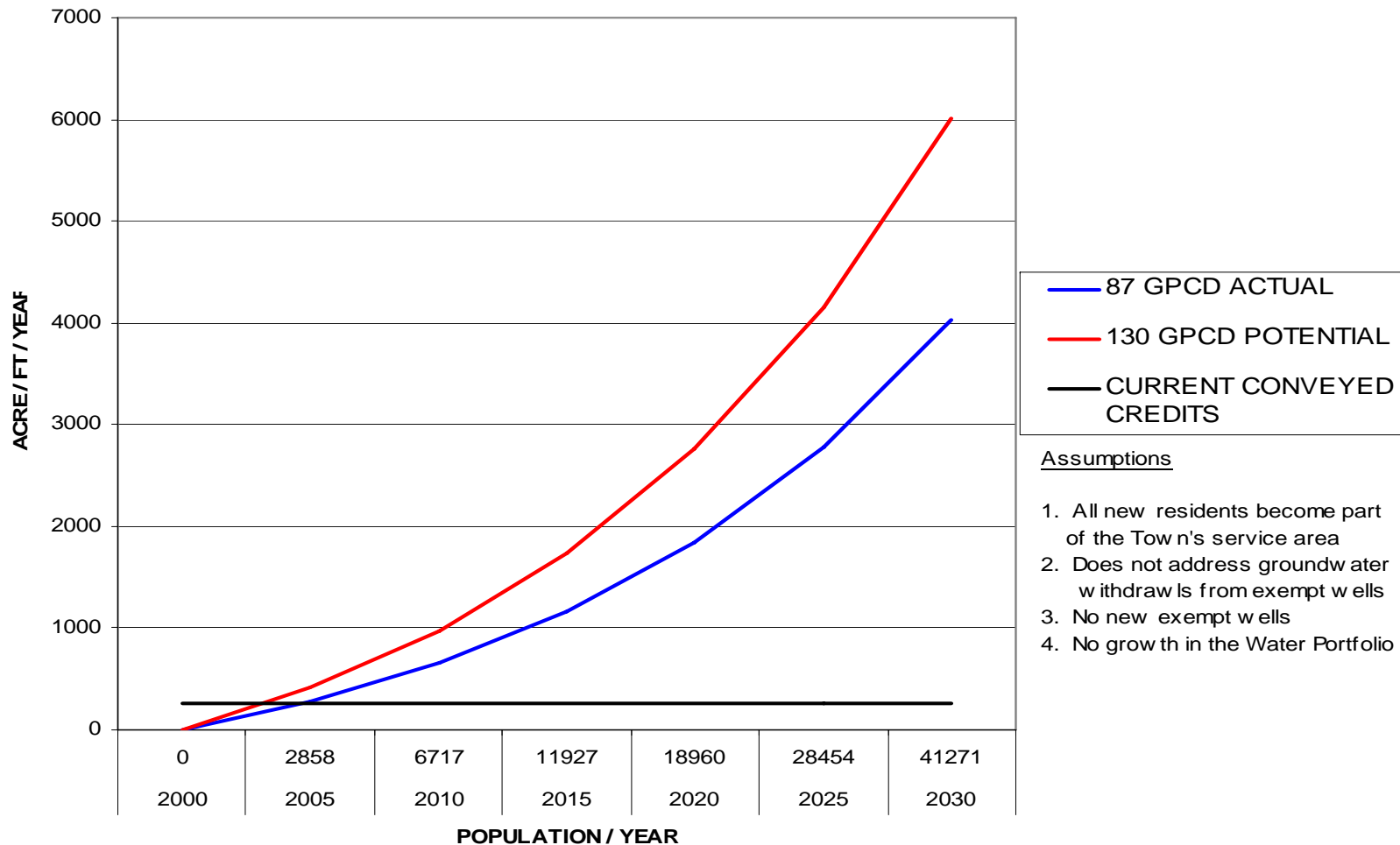
POTABLE WATER DEMAND

ESTIMATED WATER DEMAND BASED ON 5 PERCENT GROWTH
WITH ONLY NEW RESIDENTS SERVED



POTABLE WATER DEMAND

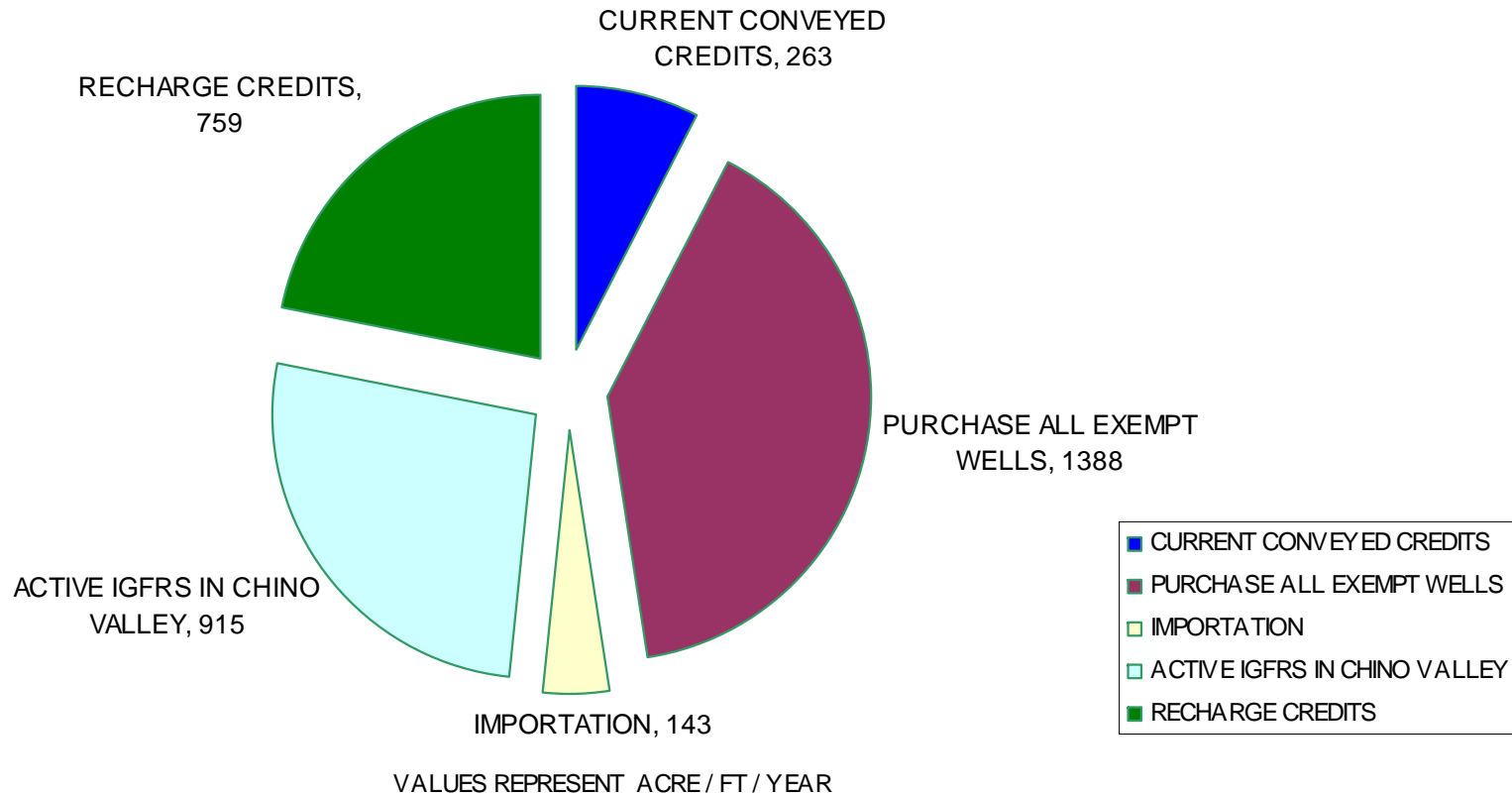
ESTIMATED WATER DEMAND AT 7 PERCENT GROWTH
WITH ONLY NEW RESIDENTS SERVED



POTENTIAL WATER SOURCES

- AMA Groundwater
 - Extinguished IGFRs
- Pauldin Water Importation
 - Serve Del Rio Ranch
 - Provide additional recharge
- Effluent Credits
 - Old Home Manor Recharge Facility
 - Chino Meadows Effluent
- Surface Water
 - Currently not available
- Purchase Exempt Wells
 - 50 credits per well

POTENTIAL TOTALS



TOTAL POTENTIAL ANNUAL WATER BUDGET **3468** ACRE/FT/YR

CURRENT POTABLE SUPPLIES

1. AWS groundwater allowed
 - 263.4 af/yr
2. Type II Groundwater Withdrawal Right
 - 32.8 af/yr (Town Center)

FUTURE POTABLE SUPPLIES

1. AWS Effluent Credit Formula
 - AWS Formula $0.66 [57 \text{ interior GPCD} * 2.5 * \text{Units}]$ where:
 - a. 57 gals interior GPCD
 - b. 2.5 is the occupancy of each residence
 - c. Units are the number of units in the proposed phase
2. Old Home Manor Recharge Facility permitted at 1120 af/yr
 - Withdrawals considered recovery and not counted as groundwater
3. Del Rio Ranch
 - Total 1875 IGFR acres to extinguish and convey to the town
4. Pauldin Water Importation
 - Initial 500 HIA to extinguish
 - Future expansion

AVAILABLE WATER

WATER RESOURCES AF/YR

CURRENT
GROUNDWATER 263

PLANNED
EFFLUENT CREDITS 1120
IMPORTATION* 143
DEL RIO RANCH CONV. 703

TOTAL **2229**

*Will expand with new
HIAs acquired

YEAR	4% POPULATION GROWTH	DEMAND AF/YR 130 GPCD
2005	1633	238
2015	5946	866
2030	16220	2362

Assumptions

1. Serving only new residents
2. Not addressing exempt wells withdrawals

AMA OVERDRAFT

1. Plan for immediate importation
2. Expand effluent collection and recharge facilities
3. Fine-tune conservation goals
 - Supply side
 - Demand Side
4. Provide sewer and water to exempt well, high-density areas.
5. Use non-AMA groundwater resources whenever possible
6. Provide additional recharge (not recovered) for existing exempt well usage

CONCLUSIONS

1. Water importation is critical for future demands
2. Effluent collection and recovery is key for long-term demand of non-AMA groundwater resources
3. Phase in water and sewer to high-density exempt well areas
4. Water conservation
 - Supply side
 - Demand Side