

CITY OF AVENAL

PROJECTED WATER NEEDS

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The City of Avenal is in need of a long-term supplemental water supply to meet the projected needs of both the urban area and the California Department of Corrections facility. Following are the current statistics for the community.

	1993 Population	Projected 2030 Population
City of Avenal	5,773	21,000
Avenal Prison	5,783	9,000

WATER SUPPLY

Currently the City of Avenal has a contract with the U.S. Bureau of Reclamation for delivery of 3,500 acre feet per year from the San Luis Canal. This contract was implemented in November 1969 and will terminate in December 2008. This contractual amount, however, is subject to shortages. For example, in dry years i.e. 1977 and again in the nineties this supply was subject to a 50% reduction and the City could only receive 1,750 acre feet from this source. In the future, shortages may occur more often due to P.L. 102-575, the Central Valley Project Improvement Act.

FUTURE WATER NEEDS

The estimated water needs to satisfy the population growth for the community were determined by applying the per capita water needs to the projected 2030 population of both the city and prison as follows:

Number of people in the City times acre feet per person:

$$21,000 \text{ people} \times 0.32 \text{ AF/person} = 6,720 \text{ AF}$$

Prison population times acre feet per person:

$$9,000 \text{ people} \times 0.16 \text{ AF/person} = \underline{1,440 \text{ AF}}$$

Total **8,160 AF**

Existing Supply is 3,500 AF

Assume subject to 50% reduction -1,750 AF

Future (2030) projected additional water needs 6,410 AF

Say 6,500 AF*

* **This amount needs to be delivered. The contractual amount may need to be higher to allow for dry year deficiencies.**

The City of Avenal is willing to enter into a long-term contract with an entity with an excess available water supply.