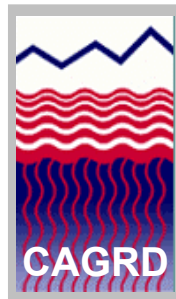


Central Arizona Groundwater Replenishment District

Plan of Operation



**SUBMITTED DRAFT
NOVEMBER 8, 2004**

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This Plan of Operation is a result of contributions from many individuals and organizations over a period of more than two years. Not all of the individuals can be named here due to the large number of participants in the various meetings and workshops that have been held. However, CAGR D would like to express its sincere appreciation to the following two groups whose hard work and dedication were instrumental in developing this Plan.

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CAWCD's internal Operating Plan/Implementation Study ("OPIS") Team consists of staff from various departments within the organization, including CAGR D, Communications & Public Relations, Finance, Legal, Operations and Planning. The members of the team are:

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A CAGR D Stakeholder Working Group was formed in January 2004 to serve in an advisory capacity as the Plan of Operation was being developed. Membership was open to any and all who wanted to participate. The group consisted of representatives from a broad range of interests. The following lists the members, advisors and alternates who served on the Working Group.

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CENTRAL ARIZONA GROUNDWATER REPLENISHMENT DISTRICT

PLAN OF OPERATION

EXECUTIVE SUMMARY

CAGRD is required by law to submit a plan of operation to the Director of ADWR every ten years. This 2004 CAGRD Plan of Operation (“Plan”) must be submitted to the Director by January 1, 2005. The Plan describes the activities that CAGRD proposes to undertake in the Phoenix, Pinal and Tucson Active Management Areas (“AMAs”) over the next one-hundred years based on continued membership enrollment through 2015.

Through December 31, 2003, CAGRD had enrolled the water service areas of nineteen municipal water providers as Member Service Areas. In addition more than 550 subdivisions, representing almost 125,000 homes, have been enrolled as Member Lands of the CAGRD. Through 2003, CAGRD had incurred a total of more than 56,000 acre-feet of groundwater replenishment obligations. CAGRD is currently in full compliance with all of its statutory and contractual requirements.

Based on the CAWCD study entitled “Outlook 2003,” CAGRD estimates that new Member Land enrollment through 2015 will proceed at a rate of about 18,500 housing units per year. This rate results in a total Member Land enrollment of about 342,000 units by the end of 2015. In addition, service areas that are already enrolled as Member Service Areas will also continue to grow. CAGRD estimates that its total annual replenishment obligation for current members and those that are projected to enroll through 2015 will reach about 227,000 acre-feet by 2035 (projected build-out).

In 2003, CAGRD performed an analysis of various types of water supplies that could be acquired for use in meeting its replenishment obligations. Based on conservative assumptions, CAGRD identified an annual total of more than 900,000 acre-feet of supplies that could potentially be acquired by CAGRD. With this information, CAGRD developed a plan to acquire a diverse portfolio of water supplies consisting of CAP water (Excess, M&I subcontract and Indian leases), effluent, Colorado River water and imported groundwater. The portfolio will consist of both short-term and long-term water supplies and will be sufficient to satisfy CAGRD’s projected obligations of 227,000 acre-feet per year. The water supply acquisition plan calls for building the portfolio over a period of about twenty-three years at a total estimated cost of just over \$260 million.

As a result of legislation adopted in 2003, CAGRD is required to establish and maintain a replenishment reserve of long-term storage credits in the Phoenix, Pinal and Tucson AMAs. The target volume for these reserves totals about 1.55 million acre-feet. CAGRD will develop these replenishment reserves over the next 45 years using a

combination of excess CAP water (53%), existing long-term storage credits (42%) and water from the portfolio described above (5%).

To implement this Plan of Operation, CAGR D will rely heavily on CAP facilities. The Plan calls for transportation of up to 105,000 acre-feet of non-project water through the CAP aqueduct system. This volume is consistent with the “Policy for Use of Excess Canal Capacity” adopted by the CAWCD Board of Directors in December 2002. CAGR D will also need to use storage capacity in recharge facilities to meet its replenishment obligations. CAGR D analyzed the recharge capacity that could be available to CAGR D in existing and planned recharge facilities developed by CAWCD and others. The analysis showed that sufficient storage capacity is available to meet replenishment and reserve storage requirements for the next twenty years. In addition, with the development of new storage facilities planned in the future, sufficient capacity will remain available for use by CAGR D to meet its storage requirements for the next 100 years.

Statutes require that all of CAGR D’s costs be paid by its members. Statutes also provide CAGR D with the authority and responsibility to establish and collect all fees, assessments and taxes necessary to meet its statutory obligations. CAGR D’s Board of Directors has adopted policies for establishing its fees and rates on an annual basis, thus providing CAGR D with flexibility as economic and operational conditions change. Therefore, all mechanisms are in place to ensure that CAGR D will always be able to meet its statutory obligations using funds collected exclusively from its members.

In conclusion, this Plan of Operation shows that CAGR D has the capability and the authority to meet all of its statutory obligations over the next one-hundred years for current members and new members that will enroll through 2015.

1.0 INTRODUCTION

1.1 CREATION OF THE CAGRD

In 1993, the Arizona legislature passed the Groundwater Replenishment District Act. This Act created a groundwater replenishment authority to be operated by the Central Arizona Water Conservation District ("CAWCD") throughout its three-county service area: Maricopa, Pinal and Pima. This replenishment authority is commonly referred to as the Central Arizona Groundwater Replenishment District ("CAGRD").

1.2 CAGRD'S WATER RESOURCE MANAGEMENT ROLE

CAGRD's role in water resource management cannot be fully understood without a basic understanding of the state's Assured Water Supply ("AWS") Rules, which became effective in February 1995. The AWS Rules are designed to protect groundwater supplies within each Active Management Area ("AMA") and to ensure that people purchasing subdivided land within an AMA have a water supply of adequate quality and quantity. Thus, in each AMA, the developer of a new subdivision must demonstrate to the Arizona Department of Water Resources ("ADWR") that a 100-year assured water supply is available to serve the subdivision before sales can begin. An AWS can be demonstrated in two ways. First, a municipal water provider may apply for and obtain a Designation of Assured Water Supply ("DAWS") for its entire service area. In this case, new subdivisions that will be served by the designated provider are automatically deemed to have proven an AWS. Alternatively, if the municipal water provider that will serve a new subdivision has not received a DAWS for its service area, the developer of the subdivision must apply for a Certificate of Assured Water Supply ("CAWS") and prove an AWS for the individual subdivision.

There are five basic criteria for proving an AWS. An applicant for an AWS must prove that:

1. A sufficient quantity of water is continuously available to satisfy the water demands of the subdivision or service area for 100 years;
2. The water source meets water quality standards;
3. The proposed use of water is consistent with conservation standards;
4. The proposed use is consistent with water management goals, and
5. The applicant is financially capable of installing the necessary water distribution and treatment facilities.

Membership in the CAGRD provides a means by which an AWS applicant can satisfy criterion number 4 above, which requires that the proposed water use be consistent with the water management goals of the particular AMA. The consistency with management goals section of the AWS Rules limits the quantity of mined groundwater that an applicant may use to demonstrate an AWS. The effect of this groundwater pumping limitation is to prevent new development from relying solely on mined groundwater to serve its water demands.

Development, however, is not necessarily stymied for those landowners and water providers who have no direct access to Central Arizona Project (“CAP”) water or other renewable supplies. If a water provider or a landowner has access to groundwater and desires to rely exclusively on groundwater to demonstrate a 100-year water supply, it may do so, provided it joins the CAGR. As a member of the CAGR, the landowner or provider must pay the CAGR to replenish any groundwater pumped by the member that exceeds the pumping limitations imposed by the AWS Rules.

In 1999, the legislature expanded CAWCD's replenishment authorities and responsibilities by passing the Water Sufficiency and Availability (“WSA”) Act. The WSA Act authorizes CAGR to play a limited role in helping a municipal water provider prove to the Director of ADWR that the provider has a continuously available supply of water for 100 years (criterion number 1 above). To do so, the CAGR must commit to replenishing a specified average annual volume of water in a location where the municipal provider may physically access it for service to its customers. The WSA Act limits CAGR’s ability to prove physical availability to a maximum total of 20,000 acre-feet (“AF”) per year.

Based on recommendations from the December 2001 Final Report of the Governor’s Water Management Commission, the legislature further expanded CAGR’s authorities and responsibilities. Key provisions of legislation adopted in 2003 require CAGR to establish and maintain a Replenishment Reserve of long-term storage credits to insure that CAGR will always be able to meet its replenishment obligations while enhancing rate stability for its members. In addition, CAGR’s planning requirements were also made more stringent and criteria under which ADWR is to review and approve CAGR plans were more clearly defined.

1.3 PLAN OF OPERATION – OVERVIEW OF PLAN REQUIREMENTS

CAGR is required by law to submit a plan of operation to the Director of ADWR every ten years (Arizona Revised Statutes (“ARS”) § 45-576.02.C.). This 2004 CAGR Plan of Operation (“Plan”) must be submitted to the Director by January 1, 2005.

The purpose of the plan of operation, as defined by statute, is to describe the activities that CAGR proposes to undertake during the 100 calendar years following submittal of the plan. The plan must include the following information for the Phoenix, Pinal and Tucson AMAs:

- a. CAGR’s groundwater replenishment obligations and the extent to which those obligations have been met in the ten years preceding submittal of the plan.
- b. An estimate of CAGR’s current and projected groundwater replenishment obligations, as that term is defined and used in title 48, chapter 22, for current members for the twenty calendar years following the submission of the plan and an estimate of the district's projected groundwater replenishment obligations for the one hundred calendar years following the submission of the plan for current members and potential members based on reasonable projections of real property

and service areas that could qualify for membership in the ten years following the submission of the plan.

- c. A description of the water resources that CAGRD plans to use for replenishment purposes during the twenty calendar years following submission of the plan and water resources potentially available to the conservation district for groundwater replenishment purposes during the subsequent eighty calendar years.
- d. A description of CAGRD's current replenishment reserve activities in each active management area for the ten years preceding the current plan and planned replenishment reserve activities for the ensuing ten years to be undertaken pursuant to ARS § 48-3772, subsection E.
- e. A description of any facilities and projects to be used for replenishment and the replenishment capacity available to CAGRD during the twenty calendar years following submission of the plan.
- f. An analysis of potential storage facilities that may be used by CAGRD for replenishment purposes.
- g. A description of CAGRD's capability to meet the current and projected groundwater replenishment obligations for the twenty calendar years following the calendar year in which the conservation district submits the plan.
- h. Any other information that the Director may require.

To comply with the WSA Act and the provisions outlined in ARS § 45-576.07.B, the plan must also include the following information:

- a. An estimate of CAGRD's current and projected commitments to member service areas that have or will be granted water availability status by CAGRD.
- b. A description of the transportation facilities and available capacity in those facilities to be used in satisfying CAGRD's groundwater replenishment obligations during the twenty calendar years following plan submittal.
- c. An analysis of potential transportation facilities and available capacity in those facilities that could be used in satisfying CAGRD's groundwater replenishment obligations during the one hundred calendar years following plan submittal.

1.4 PLAN OF OPERATION – OVERVIEW OF ADWR REVIEW AND APPROVAL PROCESS

Within sixty days of receiving CAGRD's plan of operation, the Director of ADWR must determine whether CAGRD has submitted sufficient information to determine whether the plan is consistent with the management goals of the Phoenix, Pinal and Tucson AMAs. If the Director determines that the information is insufficient for such a determination, the Director shall notify CAGRD of the insufficiency in writing and shall

specify what additional information is required. CAGR D must provide the additional information to the Director within a reasonable time as specified by the Director.

On determining that the plan of operation is complete, the Director must publish a notice in a newspaper of general statewide circulation once each week for two consecutive weeks. The public notice shall request public comment concerning the information supplied by CAGR D in its plan and shall set a date and location of a public hearing to be held for the purpose of allowing any person, including the ADWR, an opportunity to comment on or to present evidence concerning the submitted plan. CAGR D must respond in writing to all public comments whether received at the hearing or otherwise received by a date announced by the Director.

Within 120 days after the public hearing, the Director must issue a decision for each AMA (Phoenix, Pinal and Tucson) determining whether or not the plan submitted with respect to the AMA shall be designated as being consistent with achieving the management goal of the AMA. If the Director determines that the plan is consistent with achieving the management goal of the particular AMA, the designation for that AMA remains effective until January 1 of the year following the year in which CAGR D is required to submit its next plan (for the current Plan, that date is January 1, 2016). However, if, at any time between the second anniversary and the sixth anniversary of the Director's determination of consistency with the management goal, the Director determines that there has been either an unexpected increase in CAGR D's projected groundwater replenishment obligations or an unexpected reduction in water supplies available to meet CAGR D's current obligations such that the plan no longer demonstrates consistency with the management goal for one or more AMAs, the Director may require CAGR D to submit a revised plan of operation. The revised plan must be submitted within two calendar years of the date that the Director notifies CAGR D of such a determination. The Director shall review, hold a hearing on and make a determination on the revised plan just as described above, except that the Director shall only hold a public hearing regarding those conditions that have changed. If CAGR D is unable to submit a revised plan that satisfies the Director's concerns for one or more AMAs, then CAGR D's plan shall expire for the respective AMA(s).

2.0 HISTORIC OPERATIONS

2.1 CAGR D PLANS THAT ARE CURRENTLY IN EFFECT

2.1.1 Initial Plan of Operation

On June 1, 1994, CAGR D submitted its original draft plan of operation to the Director of ADWR. Public comment on that draft was received at public hearings held in the Phoenix, Tucson and Pinal AMAs. The plan was revised based on the comments received and a final plan of operation (the "Initial Plan") was submitted to the Director on February 7, 1995. On February 24, 1995, the Director entered Orders of Adoption for the Phoenix, Pinal and Tucson AMAs designating that the Initial Plan was consistent with the goals of the AMAs. With these designations of consistency, CAGR D was able to begin the process of enrolling Member Lands and Member Service Areas. The Director's designations are effective until January 1, 2006.

2.1.2 Water Availability Status Capability Plan

On January 7, 2000, CAGR D submitted its first Water Availability Status Capability Plan ("WAS Plan") to the Director of ADWR. The WAS Plan covers the Phoenix, Pinal and Tucson AMAs. On March 6, 2000, the Director issued a determination that the WAS Plan contained sufficient information to determine whether the CAGR D has the capability to grant water availability status to Member Service Areas in the three AMAs. In accordance with statutes, a public hearing was held on April 17, 2000. On June 15, 2000, the Director issued final Decisions for all three AMAs indicating that the "CAGR D has established that it has the capability to grant water availability status to member service areas." These decisions are effective until January 1, 2006.

2.2 MEMBERSHIP TYPES

Membership in the CAGR D is voluntary. Any city, town, water company, subdivision or homeowner's association located in Pima, Pinal or Maricopa Counties may join the CAGR D. The CAGR D is comprised of two types of members: Member Service Areas and Member Lands.

2.2.1 Member Service Areas

A city, town, district or water company enrolls in the CAGR D when it adopts a resolution and executes an agreement that declares its service area and all extensions thereof to be a Member Service Area ("MSA") of the CAGR D. These agreements are referred to herein as MSA Agreements. Under an MSA Agreement, the municipal provider is required to submit reports to CAGR D annually identifying the volume of Excess Groundwater¹

¹ Excess Groundwater is the amount of groundwater delivered to a member in a calendar year in excess of the amount of groundwater that may be used by the member in that calendar year consistent with the applicable assured water supply rules adopted by ADWR for the AMA where the member is located. It should be noted that the agreements between CAGR D and its members generally identify a minimum volume that must be reported as Excess Groundwater in each calendar year. This minimum volume is calculated based on the total volume of groundwater used by a member in that year. If a member uses no groundwater in a given calendar year, then its Excess Groundwater use is also zero for that year.

delivered within the service area. The MSA Agreement also requires the municipal provider to pay CAGRDR replenishment taxes based on the amount of Excess Groundwater delivered within the service area each year. When applying to enroll a service area in the CAGRDR, the applicant provides a projection of future population and water use. This projection serves as a basis for estimating CAGRDR's long-term replenishment obligation for the service area. However, changing political and economic conditions could impact population growth and/or the service area boundaries, and consequently CAGRDR's long-term obligation. Therefore, the commitment made by the CAGRDR through enrollment of an MSA will not be fully known until many years into the future. A municipal provider's enrollment in CAGRDR as an MSA allows the provider to obtain a DAWS for its service area.

2.2.2 Member Lands

An individual subdivision enrolls as a Member Land ("ML") of the CAGRDR when (1) its owner executes and records an irrevocable declaration of covenants, conditions and restrictions ("ML Declaration") running with the land that includes the land in the CAGRDR and subjects the land to the replenishment assessment, and (2) the owner and the municipal provider that will supply water to the subdivision execute and record an agreement ("ML Agreement") under which the water provider agrees to submit the water delivery information necessary to calculate the replenishment assessment for each tax parcel annually to the CAGRDR. Individual parcels within a CAGRDR Member Land are categorized as Category 1 Member Lands or Category 2 Member Lands. Category 2 Member Lands are those parcels that are part of a golf course and that choose not to participate in CAGRDR's replenishment reserve program (as described in section 5 of this Plan). Category 1 Member Lands are all Member Land parcels that don't qualify as Category 2 Member Lands.

The commitment made by CAGRDR upon enrollment of Member Lands is much more clear than that for MSAs. This is because the boundaries of the subdivision define the Member Land and, once enrolled, the boundaries of the Member Land cannot be modified without approval by the CAGRDR. In addition, the applicant must establish the number of individual units (homes, businesses, etc.) that are to be built within the subdivision before it can receive a CAWS from ADWR. This provides a fairly clear projection of the Member Land's long-term water use. Enrollment of a proposed subdivision as an ML allows the developer/landowner to obtain a CAWS for its development.

2.2.3 Water Availability Status Members

The CAWCD Board of Directors may grant water availability status to an MSA by adopting a Board resolution that commits CAGRDR to replenish a specified average annual volume of water in a location where the municipal provider may physically access it for service to its customers. The Director of ADWR recognizes that a water provider that (1) has enrolled its service area as an MSA of the CAGRDR, and (2) has been granted water availability status by the CAGRDR, has complied with the AWS Rules with regard to having a continuously available supply of water for 100 years. In accordance with existing statutes, CAGRDR may only grant water availability status to its MSAs up to a

maximum total annual replenishment obligation of 20,000 AF. Any MSA that has been granted water availability status is referred to herein as a “WAS Member.”

2.3 ENROLLMENT HISTORY

The following information is based on completed membership enrollment through December 31, 2003.

2.3.1 Membership in the Phoenix AMA

2.3.1.1 Member Lands

A total of 414 subdivisions have enrolled as MLs of the CAGR D in the Phoenix AMA. These 414 subdivisions represent approximately 85,078 homes. Of these 414 ML subdivisions, 225 are located in the west portion of the Phoenix AMA (representing 59,194 homes) and 189 are located in the east portion of the Phoenix AMA (representing 25,884 homes).² Thirteen of these Member Land subdivisions (ten in the west portion of the Phoenix AMA and three in the east portion) have subsequently been included in MSAs because the municipal water providers serving the subdivisions (City of El Mirage, City of Surprise and Johnson Utilities, LLC) enrolled their service areas as MSAs of the CAGR D after the MLs were enrolled. Therefore, CAGR D *effectively* serves 401 ML subdivisions (representing a total of 81,211 homes) in the Phoenix AMA (215 in the west portion and 186 in the east portion of the AMA).³ **Table B-1** in Appendix B provides a listing of the CAGR D MLs in the Phoenix AMA.

2.3.1.2 Member Service Areas

A total of eight municipal water providers have enrolled their water service areas as MSAs of the CAGR D in the Phoenix AMA. Of these, five are in the west portion of the AMA and three are in the east portion, as indicated below.

MSAs in the West Portion of the Phoenix AMA

- City of Avondale
- City of El Mirage
- City of Goodyear
- City of Peoria
- City of Surprise

MSAs in the East Portion of the Phoenix AMA

- City of Scottsdale
- Johnson Utilities, LLC
- Water Utilities Community Facilities
District (Apache Junction)

² ARS § 48-3772.I. requires that for the Phoenix AMA, CAGR D, to the extent reasonably feasible, shall replenish groundwater in the east portion of the AMA and in the west portion of the AMA in the approximate proportion that the groundwater replenishment obligation is attributable in a particular year to members located in the respective portions of the AMA. Therefore, CAGR D tracks enrollment and replenishment obligations for the Phoenix AMA based on their location within the AMA.

³ All annual reporting requirements and parcel replenishment obligations are suspended as long as the ML remains within the service area of an MSA, ARS § 48-3775.H.

The City of Scottsdale is the only WAS Member of the CAGR. On October 4, 2001, the CAWCD Board of Directors adopted a resolution committing to an annual volume of 3,460 AF of contract replenishment in a location where the City of Scottsdale may physically access it for service to its customers. The location where this replenishment must occur is shown on **Figure B-1**⁴ in Appendix B.

2.3.2 Membership in the Pinal AMA

2.3.2.1 Member Lands

A total of 64 subdivisions have enrolled as MLs of the CAGR in the Pinal AMA. These 64 subdivisions represent approximately 21,961 homes. **Table B-2** provides a listing of the CAGR MLs in the Pinal AMA.

2.3.2.2 Member Service Areas

The following four municipal water providers have enrolled their water service areas as MSAs of the CAGR in the Pinal AMA:

- City of Eloy
- Town of Florence
- Santa Rosa Water Company
- Copper Mountain Ranch Water Utilities Community Facilities District

2.3.3 Membership in the Tucson AMA

2.3.3.1 Member Lands

A total of 74 subdivisions have enrolled as MLs of the CAGR in the Tucson AMA. These 74 subdivisions represent approximately 17,907 homes. **Table B-3** provides a listing of the CAGR MLs in the Tucson AMA.

2.3.3.2 Member Service Areas

The following seven municipal water providers have enrolled their water service areas as MSAs of the CAGR in the Tucson AMA:

- City of Tucson
- Metropolitan Domestic Water Improvement District
- Rancho Sahuarita Water Company
- Spanish Trail Water Company
- Town of Marana
- Town of Oro Valley
- Vail Water Company

Figures 2.1, 2.2 and 2.3 provide an overview of the CAGR MLs and MSAs that are located in the Phoenix, Pinal and Tucson AMAs, respectively.

⁴ Alternatively, replenishment water provided by CAGR may be delivered by Scottsdale directly to its customers that would otherwise use groundwater pumped from within the replenishment area shown in Figure B-1. Such direct deliveries are authorized under ARS § 48-3772.B.11.

Figure 2.1
CAGRD Members
in the
Phoenix AMA

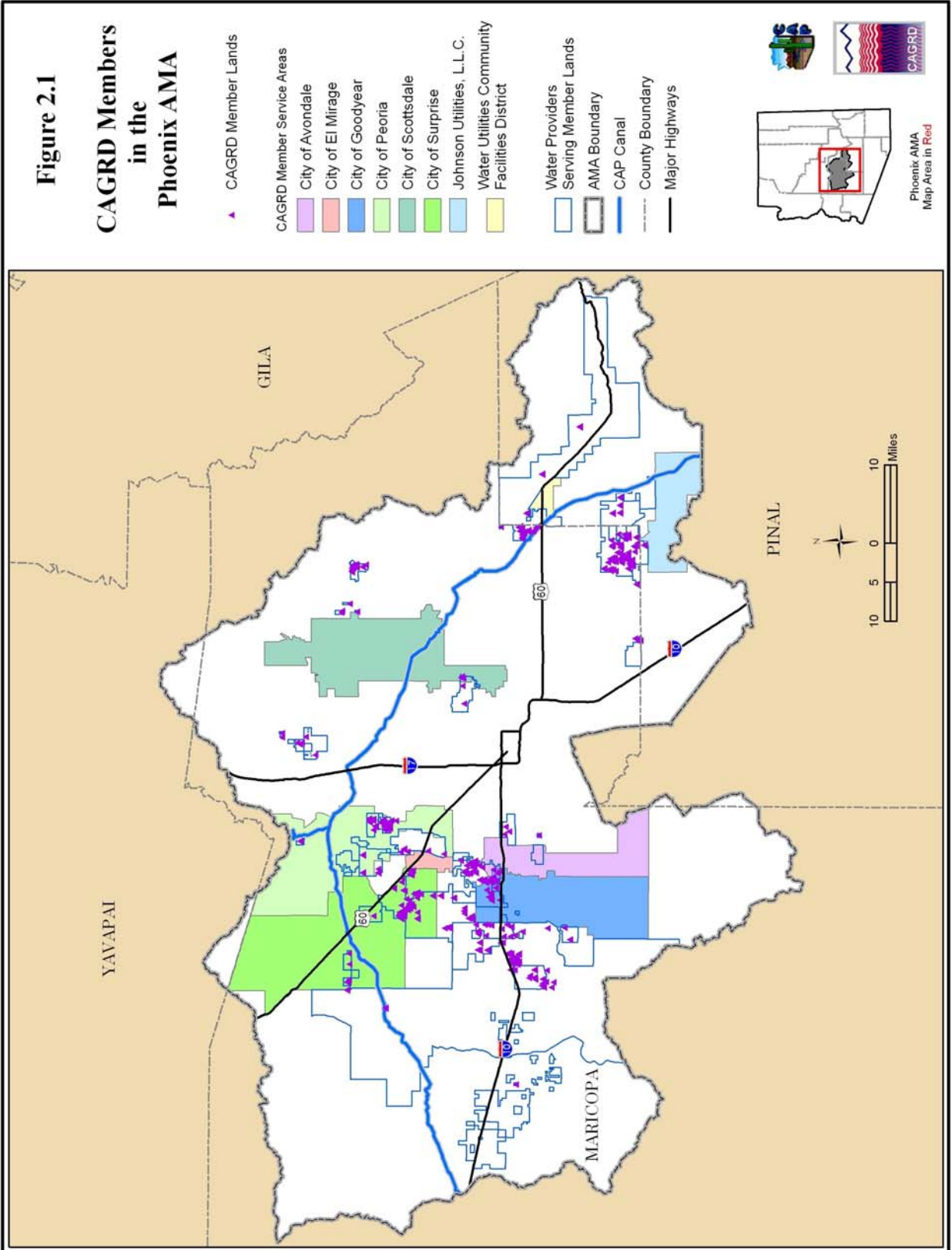


Figure 2.2
CAGRD Members
in the
Pinal AMA

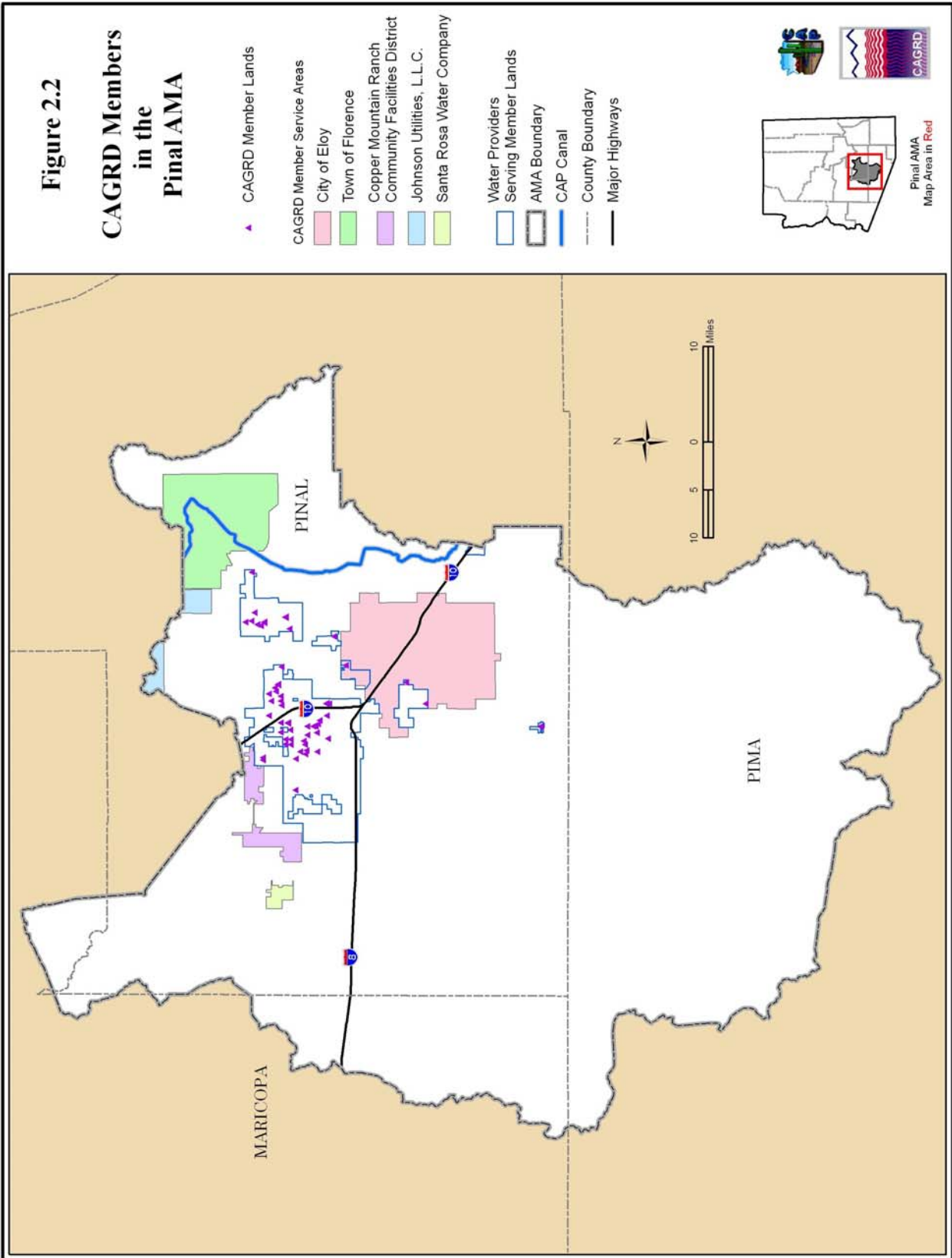


Figure 2.3

**CAGRD Members
in the
Tucson AMA**

▲ CAGRD Member Lands

CAGRD Member Service Areas

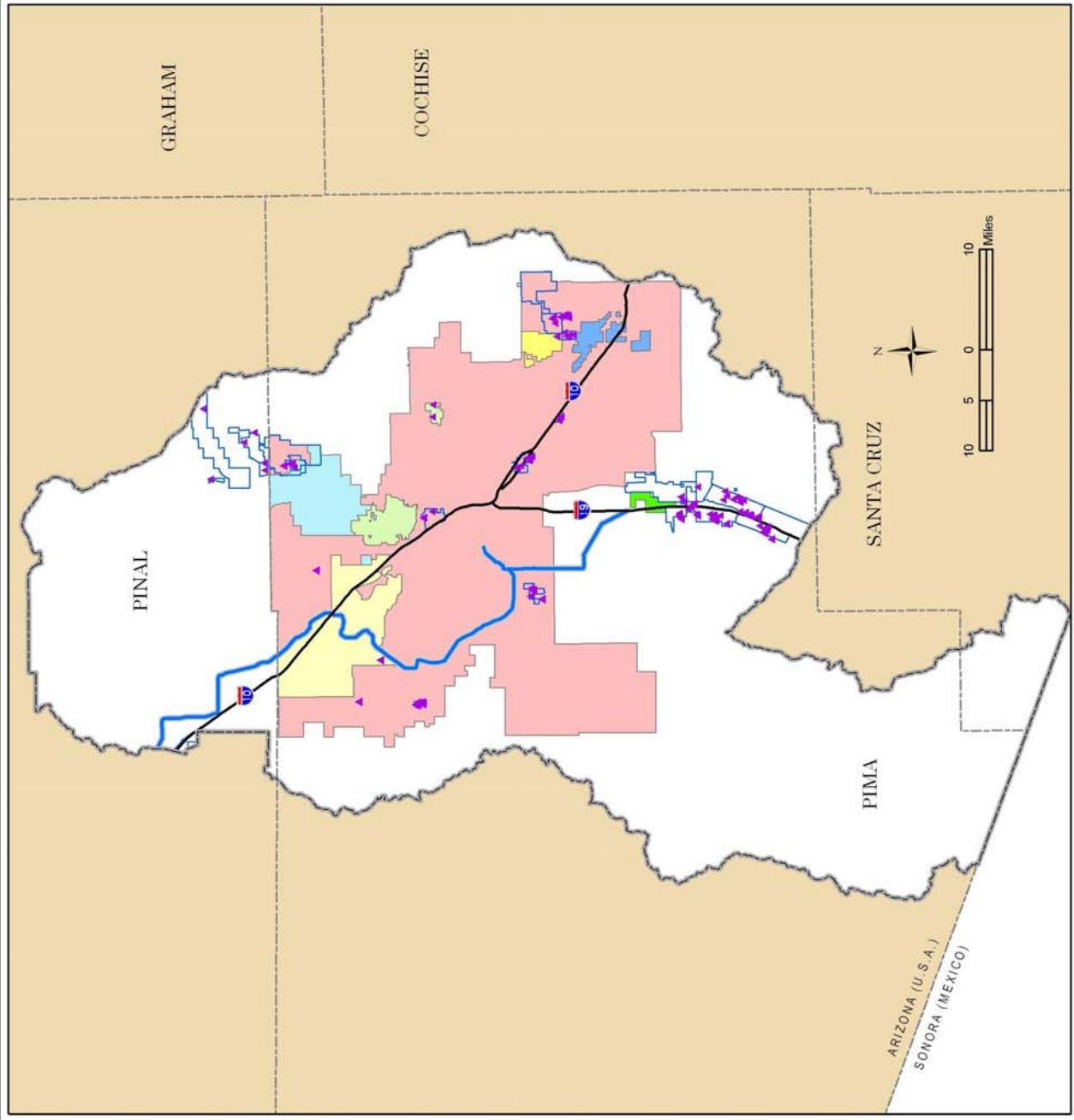
- City of Tucson
- Town of Marana
- Town of Oro Valley
- Metropolitan Domestic Water Improvement District
- Rancho Sahuarita Water Company
- Spanish Trail Water Company
- Vail Water Company

Water Providers Serving Member Lands

- AMA Boundary
- CAP Canal
- County Boundary
- Major Highways



Tucson AMA
Map Area in Red



2.3.4 Summary of Historic Enrollment

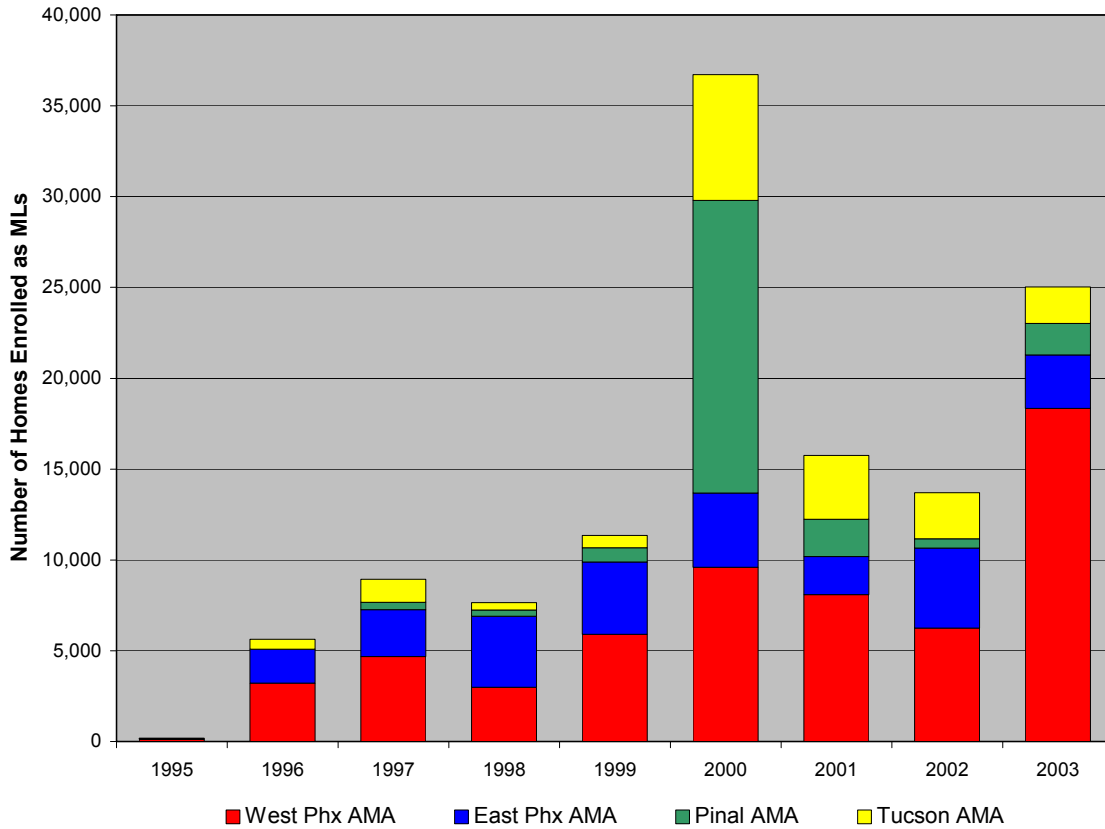
Table 2.1 provides a summary of CAGR enrollment through December 31, 2003, for the Phoenix, Pinal and Tucson AMAs.

TABLE 2.1
Summary of CAGR Enrollment Through December 31, 2003

Year	West Phoenix AMA			East Phoenix AMA			Pinal AMA			Tucson AMA			Total		
	No. of MLs	No. of ML Homes	No. of MSAs	No. of MLs	No. of ML Homes	No. of MSAs	No. of MLs	No. of ML Homes	No. of MSAs	No. of MLs	No. of ML Homes	No. of MSAs	No. of MLs	No. of ML Homes	No. of MSAs
1995	1	132	0	1	16	0	0	0	0	2	36	3	4	184	3
1996	14	3,219	0	19	1,862	1	1	11	0	7	541	1	41	5,633	2
1997	19	4,688	1	23	2,579	0	5	404	0	18	1,265	2	65	8,936	3
1998	14	2,985	2	36	3,908	0	5	353	0	2	389	0	57	7,635	2
1999	22	5,918	1	37	3,973	0	9	777	1	5	690	1	73	11,358	3
2000	23	9,587	0	32	4,099	1	20	16,103	1	8	6,926	0	83	36,715	2
2001	29	8,091	1	12	2,098	1	12	2,058	0	9	3,510	0	62	15,757	2
2002	25	6,243	0	11	4,400	0	6	520	2	7	2,533	0	49	13,696	2
2003	78	18,331	0	18	2,949	0	6	1,735	0	16	2,017	0	118	25,032	0
Total	225	59,194	5	189	25,884	3	64	21,961	4	74	17,907	7	552	124,946	19

This table shows that ML enrollment in the early years (1995 through 1998) was relatively low. This was likely the result of a combination of conditions, including the fact that many developers, anticipating the implementation of new AWS Rules in 1995, obtained plat approvals for new subdivisions years before construction was scheduled to begin. Since plats were already approved prior to 1995, there was no requirement to enroll these subdivisions in the CAGR. 2000 was the year with the largest ML enrollment. It has been suggested that this was the result of developers anticipating stricter regulations due to the state's Growing Smarter program. The significant spike in ML enrollment in 2003 is attributable to several large master-planned communities starting up in the west portion of the Phoenix AMA. **Figure 2.4** graphically depicts the historic annual ML enrollment in terms of housing units.

FIGURE 2.4
CAGRD Member Land Enrollment Through December 31, 2003



2.4 HISTORIC REPLENISHMENT OBLIGATIONS

2.4.1 Groundwater Replenishment Obligations

CAGRD’s annual groundwater replenishment obligation for each AMA is defined in statute as the total of the cumulative Parcel Replenishment Obligation plus the cumulative Service Area Replenishment Obligation in that AMA for the particular calendar year, ARS § 48-3701.9.

2.4.1.1 Parcel Replenishment Obligations

These obligations result from Excess Groundwater deliveries that municipal water providers make to individual parcels within CAGRD MLs. For each ML subdivision that it serves, the municipal water provider is required by statute to file an annual report with CAGRD⁵ indicating the volume of groundwater and the volume of Excess Groundwater delivered to each ML parcel in the subdivision, ARS § 48-3775.A. These reports must be submitted to CAGRD by March 31st of each year, and the volumes reported represent

⁵ By statute, the municipal provider must also submit a copy of each annual report to ADWR.

deliveries from the previous year (the “Report Year”). Thus, CAGR D incurs Parcel Replenishment Obligations in the calendar year following that in which the Excess Groundwater is actually delivered to ML parcels. CAGR D must satisfy its Parcel Replenishment Obligations within three calendar years after they are incurred. **Tables B-4 through B-7** list the cumulative Parcel Replenishment Obligations for each ML subdivision in CAGR D for Report Years 1995 through 2003.

2.4.1.2 Service Area Replenishment Obligations

These obligations result from Excess Groundwater deliveries that municipal water providers make to CAGR D MSAs. Municipal water providers that serve a CAGR D MSA are required by statute to file an annual report with CAGR D⁶ indicating the volume of groundwater and the volume of Excess Groundwater delivered within the MSA, ARS § 48-3775.B. These reports must be submitted to CAGR D by March 31st of each year, and the volumes reported represent deliveries from the previous year (the “Report Year”). Thus, CAGR D incurs Service Area Replenishment Obligations in the calendar year following that in which the Excess Groundwater is actually delivered. CAGR D must satisfy its Service Area Replenishment Obligations within three calendar years after they are incurred. **Table B-8** lists the cumulative Service Area Replenishment Obligations for each MSA for Report Years 1995 through 2003.

2.4.2 Contract Replenishment Obligations

These obligations represent the amount of groundwater that CAGR D contracts to replenish in a year on behalf of a municipal water provider that serves an MSA. This replenishment is done in advance of the member’s use of Excess Groundwater pursuant to a specific contract with the municipal provider. CAGR D may perform contract replenishment on behalf of any MSA.

2.4.2.1 Water Availability Status Contract Replenishment

As of December 31, 2003, there is only one MSA that has executed a contract to replenish. That MSA is the City of Scottsdale, which has executed a Water Availability Status Contract to Replenish Groundwater with the CAGR D. Under this contract, CAGR D is obligated to provide an annual maximum of 3,460 AF of replenishment water. As indicated in section 2.3.1.2 above, this water must be delivered directly to Scottsdale’s customers or replenished in the area identified in Figure **B-1**. In 2003, the first year in which CAGR D was obligated to provide replenishment water to Scottsdale, CAGR D delivered 759 AF of replenishment water to Scottsdale’s turnout. This total volume was delivered directly to Scottsdale’s customers.

2.4.3 Summary of CAGR D’s Historic Replenishment Obligations

Table 2.2 below summarizes CAGR D’s historic replenishment obligations for Report Years 1995 through 2003.

⁶ By statute, the municipal provider must also submit a copy of each annual report to ADWR.

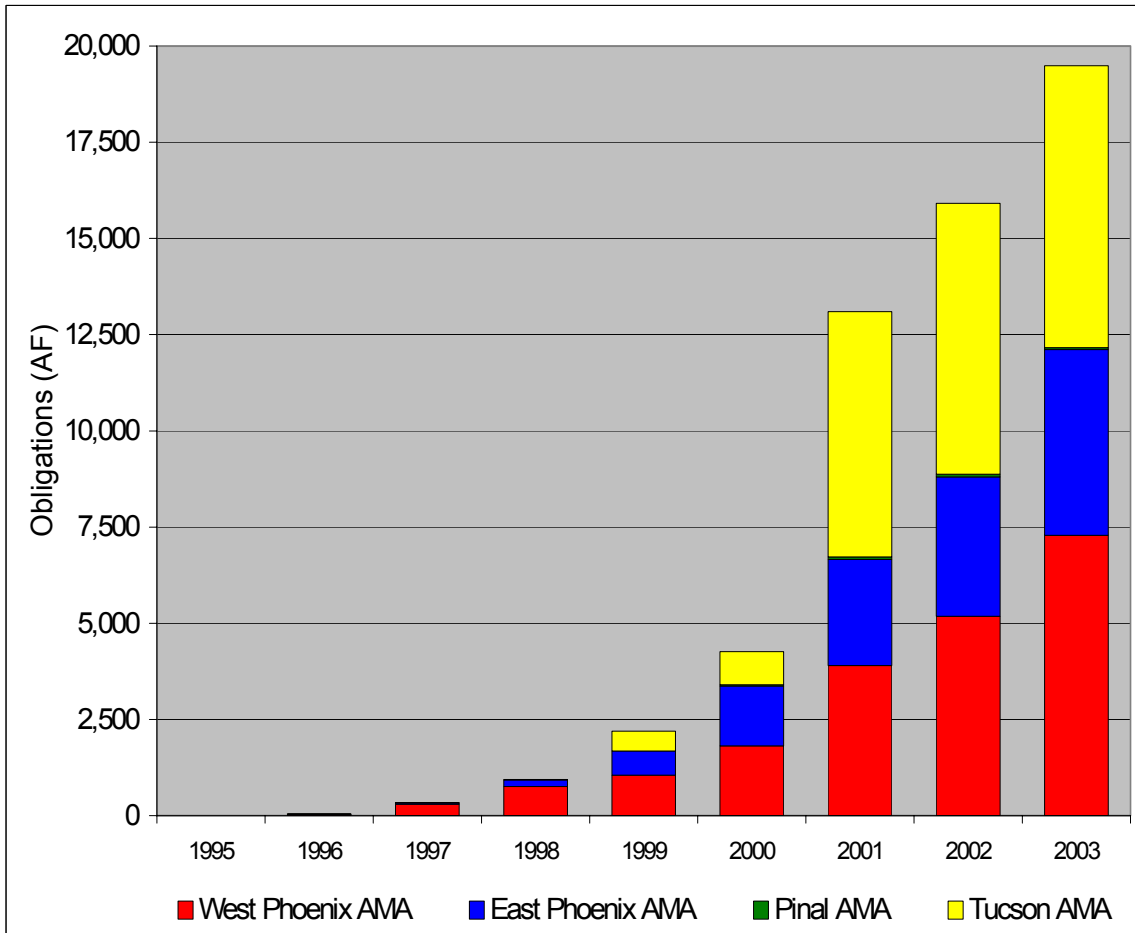
TABLE 2.2
CAGR D's Historic Replenishment Obligations

Description	Excess Groundwater Use by Report Year* (AF)								
	1995	1996	1997	1998	1999	2000	2001	2002	2003
West Phx AMA Parcel Repl Obligation	0.1	39.1	295.0	759.5	835.5	1,105.5	1,644.9	3,018.7	4,054.5
West Phx AMA Service Area Repl Obligation	0.0	0.0	0.0	0.0	216.3	704.4	2,253.0	2,164.6	3,226.0
West Phx AMA Contract Repl Obligation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total West Phx AMA Repl Obligations	0.1	39.1	295.0	759.5	1,051.7	1,809.9	3,898.0	5,183.3	7,280.6
East Phx AMA Parcel Repl Obligation	0.0	1.5	35.7	168.4	546.8	991.6	1,432.0	1,973.8	2,944.4
East Phx AMA Service Area Repl Obligation	0.0	0.0	0.0	0.0	82.0	571.0	1,330.8	1,648.2	1,127.2
East Phx AMA Contract Repl Obligation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	759.0
Total East Phx AMA Repl Obligations	0.0	1.5	35.7	168.4	628.8	1,562.6	2,762.8	3,622.0	4,830.6
Pinal AMA Parcel Repl Obligation	0.0	0.0	0.0	0.0	0.0	28.4	61.1	65.8	52.6
Pinal AMA Service Area Repl Obligation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pinal AMA Contract Repl Obligation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Pinal AMA Repl Obligations	0.0	0.0	0.0	0.0	0.0	28.4	61.1	65.8	52.6
Tucson AMA Parcel Repl Obligation	0.0	4.1	2.7	11.2	24.6	46.1	74.7	166.0	204.3
Tucson AMA Service Area Repl Obligation	0.0	0.0	4.2	3.6	491.9	810.2	6,298.4	6,875.1	7,121.7
Tucson AMA Contract Repl Obligation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Tucson AMA Repl Obligations	0.0	4.1	7.0	14.8	516.5	856.3	6,373.1	7,041.0	7,326.0
Total Parcel Repl Obligation - All AMAs	0.1	44.8	333.4	939.1	1,406.9	2,171.6	3,212.8	5,224.3	7,255.9
Total Service Area Repl Obligation - All AMAs	0.0	0.0	4.2	3.6	790.1	2,085.6	9,882.2	10,687.9	11,474.9
Total Contract Repl Obligation - All AMAs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	759.0
Total Repl Obligations - All AMAs	0.1	45	338	943	2,197	4,257	13,095	15,912	19,490

* Report Year is the year in which the groundwater was actually pumped.

Figure 2.5 below presents this obligation summary in graphical form.

**FIGURE 2.5
CAGRD's Historic Replenishment Obligations**



2.5 SATISFACTION OF HISTORIC OBLIGATIONS

2.5.1 Methods of Satisfying Obligations

CAGRD has satisfied its replenishment obligations through direct recharge, groundwater savings, purchase and extinguishment of existing long-term storage credits, and direct deliveries. CAGRD's existing policy⁷ states that CAGRD replenishment "will be accomplished at reasonably priced facilities in consideration of water resource management goals, with preference for use of state demonstration projects when appropriate." This means that CAGRD will, to the best of its ability, replenish as close to

⁷ CAGRD Replenishment Rate Setting Policy originally adopted by the Board of Directors on April 5, 2001, and subsequently revised and adopted on June 17, 2004. The portion of the policy relating to location of replenishment has remained constant since the original policy was adopted.

member pumping as possible, provided that such replenishment would be hydrologically sound. The following describes each method of replenishment used to date by CAGR D.

2.5.1.1 Direct Recharge

CAGR D has satisfied a portion of its replenishment obligations using direct recharge facilities. Direct recharge was accomplished using spreading basin recharge facilities constructed and operated by CAWCD under the State Demonstration recharge program. In the Phoenix AMA, CAWCD has constructed the Agua Fria Recharge Project (“AFRP”) and the Hieroglyphic Mountains Recharge Project (“HMRP”). The locations of these Phoenix AMA facilities are shown on **Figure B-2**. In the Tucson AMA, CAWCD has constructed the Avra Valley Recharge Project (“AVRP”), the Lower Santa Cruz Recharge Project (“LSCR P”), and the Pima Mine Road Recharge Project (“PMRRP”). The locations of these Tucson AMA facilities are shown on **Figure B-2**.

2.5.1.2 Groundwater Savings

CAGR D has satisfied a portion of its replenishment obligations using groundwater savings facilities. The groundwater savings program is authorized by state law; it allows an entity to deliver renewable water supplies to an irrigation district. The irrigation district uses the renewable water supplies in lieu of groundwater and the entity that delivered the renewable water supply receives a long-term storage credit for the amount of groundwater saved. CAGR D has satisfied a portion of its Phoenix AMA replenishment obligations by participating in the Queen Creek Irrigation District’s groundwater savings facility (“QCGSF”).

2.5.1.3 Purchase and Extinguishment of Existing Credits

CAGR D has satisfied a portion of its replenishment obligations through the purchase and extinguishment of existing long-term storage credits accrued by CAWCD and others. ARS § 48-3713.B.11 allows CAWCD to assign its long-term storage credits to CAGR D, provided that CAGR D pays “fair value” for the credits. CAGR D has purchased some of CAWCD’s long-term storage credits to meet its replenishment obligations, and has paid CAWCD the then-current CAP Municipal and Industrial (“M&I”) Excess Water rate for those credits.

In addition to purchasing existing credits from CAWCD, CAGR D has also used existing credits accrued by several of its Member Service Area water providers to meet their corresponding replenishment obligations. This mechanism for satisfying obligations was authorized by the CAGR D Board of Directors in its CAGR D Assessment Rate Setting Policy. This policy states:

To the extent allowed by state law, a member with a CAP subcontract entitlement may schedule all or a portion of its entitlement for delivery to a recharge/replenishment facility acceptable to CAGR D and transfer the resulting storage credits to the CAGR D for use in meeting the groundwater replenishment obligation incurred as a result of that member’s excess groundwater pumping. The corresponding cost savings

realized by CAGR D will be reflected in that member's replenishment assessment/tax.

In other words, a member can reduce its replenishment assessment/tax by assigning long-term storage credits to CAGR D. CAGR D, in turn, uses these credits to satisfy its replenishment obligations.

2.5.1.4 Direct Deliveries

As indicated in section 2.4.2.1 above, CAGR D is authorized to meet its contract replenishment obligations for the City of Scottsdale via direct deliveries to Scottsdale's CAP turnout.

2.5.2 Satisfaction of Phoenix AMA Obligations

CAGR D has satisfied its replenishment obligations in the Phoenix AMA through a combination of direct recharge, groundwater savings, purchase and extinguishment of existing long-term storage credits, and direct deliveries. **Table 2.3** provides a summary of the replenishment that CAGR D has performed to satisfy its Phoenix AMA replenishment obligations.

2.5.3 Satisfaction of Pinal AMA Obligations

CAGR D has satisfied all of its Pinal AMA replenishment obligations by purchasing existing long-term storage credits from CAWCD. **Table 2.3** summarizes the volumes purchased from CAWCD.

2.5.4 Satisfaction of Tucson AMA Obligations

CAGR D has satisfied its replenishment obligations in the Tucson AMA through a combination of direct recharge, and purchase and extinguishment of existing long-term storage credits. **Table 2.3** provides a summary of the replenishment that CAGR D has performed to satisfy its Tucson AMA replenishment obligations.

TABLE 2.3
Replenishment Performed by CAGR D to Meet Replenishment Obligations

Description	Replenishment Accomplished (AF)						
	1997	1998	1999	2000	2001	2002	2003
West Phoenix AMA							
Direct Recharge	0.0	0.0	0.0	0.0	3,622.2	1,566.4	7,524.3
Groundwater Savings	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Credit Purchases & Extinguishment	0.0	0.0	40.0	0.0	65.0	0.0	0.0
Direct Deliveries	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total for West Phoenix AMA	0.0	0.0	40.0	0.0	3,687.2	1,566.4	7,524.3
East Phoenix AMA							
Direct Recharge	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater Savings	0.0	0.0	0.0	0.0	0.0	1,963.7	2,724.3
Credit Purchases & Extinguishment	0.0	0.1	2.0	413.9	344.5	0.0	411.8
Direct Deliveries	0.0	0.0	0.0	0.0	0.0	0.0	759.0
Total for East Phoenix AMA	0.0	0.1	2.0	413.9	344.5	1,963.7	3,895.1
Pinal AMA							
Direct Recharge	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater Savings	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Credit Purchases & Extinguishment	0.0	0.0	0.0	0.0	89.5	65.8	0.0
Direct Deliveries	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total for Pinal AMA	0.0	0.0	0.0	0.0	89.5	65.8	0.0
Tucson AMA							
Direct Recharge	0.0	0.0	11.4	14.2	1,228.2	1,069.4	1,671.1
Groundwater Savings	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Credit Purchases & Extinguishment	0.0	0.0	0.0	0.0	5,441.7	5,000.0	5,375.3
Direct Deliveries	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total for Tucson AMA	0.0	0.0	11.4	14.2	6,669.9	6,069.4	7,046.4
Total All AMAs							
Direct Recharge	0.0	0.0	11.4	14.2	4,850.4	2,635.8	9,195.4
Groundwater Savings	0.0	0.0	0.0	0.0	0.0	1,963.7	2,724.3
Credit Purchases & Extinguishment	0.0	0.1	42.0	413.9	5,940.7	5,065.8	5,787.1
Direct Deliveries	0.0	0.0	0.0	0.0	0.0	0.0	759.0
Total for All AMAs	0.0	0.1	53.4	428.1	10,791.1	9,665.3	18,465.9

This table shows that CAGR D had satisfied a total of just over 39,400 AF of its groundwater replenishment obligations through the end of 2003. **Table 2.4** summarizes the replenishment obligations incurred and replenishment performed by CAGR D through 2003.

TABLE 2.4
Summary of Obligations and Replenishment Through 2003

AMA	Total of Obligations Incurred (AF)	Total Replenishment Performed (AF)
Phoenix (West)	20,317	12,818
Phoenix (East)	13,613	6,619
Pinal	208	155
Tucson	22,139	19,811
Total All AMAs	56,276	39,404

This table shows that CAGR D has incurred 16,872 AF of obligations that have not yet been satisfied. The majority of this unsatisfied obligation is the result of CAGR D members' use of Excess Groundwater in 2003. By statute, CAGR D must satisfy its replenishment obligations within three years of incurring them. Therefore, replenishment to offset the 16,872 AF of unsatisfied obligations must be performed by the end of 2006.

It should be noted that the volumes in **Tables 2.3 and 2.4** do not include advance replenishment performed by CAGR D to date. Historic CAGR D activities related to advance replenishment are described in Section 5 of this Plan.

3.0 PROJECTED ENROLLMENT AND OBLIGATIONS

3.1 PLAN REQUIREMENTS

As indicated in Section 1.3 above, this Plan must provide an estimate of the following CAGR D groundwater replenishment obligations:

- The current and projected obligations for current members for the twenty calendar years following the submission of the plan (for purposes of this Plan, the period of estimation will be 2005 through 2025); and
- The obligations for the one hundred calendar years following submission of the plan for current members and potential members based on reasonable projections of real property and service areas that could qualify for membership in the ten years following the submission of the plan (for purposes of this Plan, the period of estimation will be 2005 through 2105, with the estimates based on projected membership enrollment through 2015).

In reviewing CAGR D's plan of operation, ADWR must be satisfied that the projected enrollment and replenishment obligations are reasonable. The following sections describe the methodologies used to make these estimations and summarize the resulting estimates.

3.2 PROJECTING TOTAL DEMANDS, GROUNDWATER DEMANDS, CAGR D ENROLLMENT AND REPLENISHMENT OBLIGATIONS

3.2.1 Outlook 2003 – Projecting Total Demands

In October 2002, CAWCD contracted with the Maricopa Association of Governments Information Center (“MAGIC”) to provide housing unit and population projections for Maricopa County, to assist in obtaining and analyzing similar data for Pinal and Pima Counties, and to provide Geographic Information System (“GIS”) and database support for the purpose of developing CAP water user's demand projections through 2035. As part of this study, called “Outlook 2003,” total water demand projections for CAGR D members were also prepared. Results from the Outlook 2003 study served as the basis for projecting CAGR D enrollment and replenishment obligations. The detailed assumptions, methodologies and results from the Outlook study are documented in a separate report that is available from CAWCD. A brief description of the analysis and results that are pertinent to this Plan is provided below.

While the Outlook 2003 study was complex, the root structure of the methodology was relatively simple. Three foundational components were linked together to create water demand projections:

1. Housing unit and population projections were developed by location for CAWCD's three-county service area;

2. The physical location of each known water provider was identified, allowing the selection of projected units and population within defined areas; and
3. Water demand factors were developed to convert the housing unit and population projections to a water demand for identified areas.

Development of population and housing unit projections relied primarily on Maricopa Association of Governments (“MAG”) and Pima Association of Governments (“PAG”) socioeconomic projections.⁸ It was decided that the MAG and PAG projections would be used for a variety of reasons. Both the MAG and PAG projections are grounded in a substantial amount of base data including major elements such as Census data, residential completions, existing and future land use geographies and planned developments. These projections and related data are also organized in a GIS environment.

A number of significant assumptions were universal to Outlook 2003. These are described below.

- The analysis relied on the plans of local jurisdictions, when available, for fundamental assumptions about demand factors and use of renewable supplies.
- Water providers designated as having an AWS independent of the CAGRDR will remain independent of the CAGRDR throughout the study period.
- Future growth in areas located outside water providers that are MSAs or water providers independent of the CAGRDR will be based on certificates of assured water supply.
- MSAs will retain their designations of assured water supply indefinitely.

To project water demand by customer, a geography for each water provider in the study area needed to be defined. As the study developed, four categories of water providers emerged; cities and towns with water utilities, private water companies, irrigation districts, and other, non-traditional water providers (e.g., special districts and Air Force bases). In the end, 159 water providers were identified in the study area. Twenty were cities and towns with water utilities (i.e., municipal water planning areas), 127 were private water companies, four were irrigation districts, and eight were other water providers.

Each water provider was coded according to its CAGRDR status as follows: member land, future member land, member service area or none. The member land code includes water providers that serve existing CAGRDR member lands. The future member land code includes water providers that are likely to serve member lands in the future but do not

⁸ The local Council of Governments for Pinal County does not project population or housing units for transportation planning purposes and relies on the Arizona Department of Economic Security for its jurisdiction level projections. However, both MAG and PAG compile “placeholder projections” for areas of Pinal County that have regional transportation impacts in their respective areas. Therefore, most of the high-growth areas of Pinal County are taken into account by the modeling needs of MAG and PAG. MAG worked closely with the individual jurisdictions and the Council of Governments in Pinal County to identify their expectations and combine the results of their expectations to arrive at the “placeholder projections.” These numbers were then reviewed and modified as necessary by the Pinal County jurisdictions. Similar work was conducted by PAG for areas in its model located in Pinal County.

yet. The member service area designation includes those water providers whose service areas are currently enrolled as member service areas in the CAGR. A code of “none” meant the provider has no current relationship with the CAGR and is not expected to in the future. A provider was coded “none” instead of “future member land” if either of two conditions existed. First, if the water provider was currently designated as having an AWS independent of the CAGR, then it was assumed that the provider would remain independent throughout the study period. Second, if the AWS Rules were not applicable to the provider, then the provider was coded as “none.” The second instance included water providers such as prisons, military institutions, universities and built-out mobile home parks.

To prepare a comprehensive set of projections, it was necessary to explore not only potential demands for *known* water providers, but also areas *outside* of known water providers. The Outlook study assumed that growth outside of known water providers in areas planned at one or more units per acre will require membership in the CAGR.⁹ The study also assumes those new subdivisions will prove an AWS based on certificates rather than designations.

Table 3.1 summarizes the total annual demands¹⁰ resulting from the Outlook 2003 study.

Table 3.1
Estimated Demand of Water Providers with CAGR Relationships
(Acre-feet)

Water Providers	2005	2010	2015	2020	2025	2030	2035
Member Service Areas	317,800	363,300	421,400	479,400	542,600	599,000	645,600
Member Land Water Providers*							
Providers with Existing and Future Member Lands	38,600	64,600	101,000	112,900	120,000	123,200	125,200
Providers with Future Member Lands Only	500	1,600	3,100	3,500	3,800	3,800	4,000
Areas Outside Known Water Providers	2,300	7,700	22,800	27,600	30,000	30,700	31,200
Grand Total	359,200	437,200	548,300	623,400	696,400	756,700	806,000

* Member Land Water Provider demands exclude demands associated with non-residential users and pre-1995 subdivisions because the CAGR is not responsible for meeting obligations associated with these uses.

⁹ It was also assumed that unplanned areas and areas planned at less than one unit per acre would not require membership in the CAGR during the study period.

¹⁰ For water providers with a Member Land relationship with the CAGR (i.e., all but Member Service Areas), total demand refers to the residential demand of the water provider, as the CAGR is responsible for non-residential demands only in very rare circumstances. In addition, these demands exclude demands associated with pre-1995 subdivisions and growth related to those subdivisions because pre-1995 demands are grandfathered groundwater demands not subject to replenishment. Water uses associated with golf courses subject to CAGR replenishment were incorporated into the total residential demand of existing member lands where that information was known.

It should be noted that subsequent to the preparation of CAGR D's original Conceptual Plan in late 2003, the results from the original Outlook 2003 study were reviewed and updated where necessary. A comparison of the results of the original version to the updated version revealed that the changes made between the projections used for the Conceptual Plan and the projections published in the final Outlook report are insignificant from a policy perspective. In addition, the impact of changes to replenishment obligations even slightly, either up or down, seemed counterproductive to the public participation process that was conducted during the spring/summer of 2004, especially since it was not necessary to do so. Therefore, the original dataset for this Plan was maintained rather than revising all of the analyses that had been performed based on the original data. The original data set, along with a description of the subsequent revisions, is presented in Appendix C.

3.2.2 Projecting Groundwater Demands

Once demands for water providers and subdivisions had been established, two additional tasks needed to be completed. First, a schedule of CAP deliveries to water providers with CAP subcontracts needed to be prepared. Second, for water providers with an existing or future relationship with the CAGR D, the groundwater portion of the total demand needed to be determined. To accomplish these tasks, water supply portfolios needed to be prepared for most water providers using or expected to use renewable water supplies.

3.2.2.1 Water Provider Profiles

Determining which providers were solely dependent on groundwater and which providers used a variety of supplies was the first step. For most providers with multiple supply sources, CAP prepared water provider profiles or water budgets that compared demand and supply to arrive at groundwater demands. These profiles were developed primarily for municipally owned water providers and for some large privately owned water providers. There were some smaller water providers, with access to a renewable supply and, in particular, a CAP allocation that, in CAP's judgment, would not use that supply during the study period. In cases where CAP was uncertain about the use of renewable supplies, CAP contacted the water provider and verified the non-use. In some cases, the water provider was using its CAP allocation or planned to for solely non-potable purposes (e.g., a golf course or park). If the supply was to be used exclusively for non-potable purposes, CAP assumed the potable system would be groundwater dependent. The provider profiles developed are on file at the CAGR D.

3.2.2.2 CAP Delivery Schedule and Groundwater Demands

Based on water provider profiles, two work products were prepared. The first work product was a schedule of CAP deliveries by water provider over the study period. Once the CAP deliveries by year for a water provider were established in the profile, this information was transferred to a system-wide delivery schedule. The purpose of this schedule was to determine the volume of excess CAP water that could be available to the CAGR D and others. More detailed information about the excess CAP water analysis is found in section 4 of this Plan. Including deliveries of Hohokam water and Indian lease water, annual deliveries of CAP water for municipal and industrial uses are projected at

over 470,000 acre-feet in 2005 and in excess of 660,000 acre-feet by 2015 and over 700,000 acre-feet in 2025. **Table C-3** in Appendix C shows the projected CAP delivery schedule for municipal and industrial water uses by water provider.

The second work product converted the total annual demands from **Table 3.1** above to groundwater demands. To accomplish this, a groundwater factor was assigned to each provider serving or expected to serve Member Lands. The groundwater factor is the ratio of groundwater to total demand established in the water provider profile. This factor was created only for water providers with Member Land relationship with the CAGR. Groundwater demands for Member Service Areas were determined within the unique water provider profile. Once developed, these factors were applied to the existing Member Land demands and to the overall demands of water providers serving or expected to serve Member Lands. The projected annual groundwater demands for members of the CAGR are summarized in **Table 3.2** below. The results by water provider are presented in **Appendix C**.

Table 3.2
Estimated Groundwater Demand of Member Service Areas and
Member Land Water Providers
(Acre-feet)

Water Providers	2005	2010	2015	2020	2025	2030	2035
Member Service Areas	132,200	85,100	79,500	127,700	178,800	226,400	276,200
Member Land Water Providers*							
Providers with Existing and Future Member Lands	29,900	48,200	82,400	94,300	103,600	108,500	111,000
Providers with Future Member Lands Only	500	1,500	2,900	3,300	3,600	3,700	3,800
Areas Outside Known Water Providers	2,300	7,700	22,800	27,600	30,000	30,700	31,200
Grand Total	164,900	142,500	187,600	252,900	316,000	369,300	422,200

3.2.3 Projecting Enrollment

The enrollment projections were a critical component of the Plan of Operation. Decisions about fees and supplies would have to be made based on these projections. Enrollment could not be projected directly based on housing unit projections from the Outlook Study. Historic enrollment appears to have been based largely on business decisions of developers and builders, but the Outlook Study projections were based on modeled housing construction. There appears to have been no direct relationship between historic enrollment and historic construction, and to expect a relationship to exist in the future was unreasonable.

Consequently, alternative methods of projecting enrollment were considered. The first consideration was to assume that historic enrollment might reveal some trend that could be relied upon for projecting future enrollment. Historic ML enrollment is presented in

Figure 2.4 above. Based on this data, it was clear that historic enrollment could not be relied upon as an indicator of future performance.

While there was no direct relationship between projected construction and projected enrollment, there was an indirect relationship that proved helpful in projecting enrollment. First, construction cannot exceed enrollment at any time. So, the number of units enrolled must always be higher than the number of units constructed in a given year. To that end, a comparison of the number of units constructed to date and the number of units enrolled was conducted.

As of January 2003, when data was captured for the Outlook study, only about 20% of the units enrolled were actually constructed. Assuming that constructed units will remain at 20% of enrolled units over time leads to an unreasonably high annual rate of membership enrollment. Instead, it was assumed that the exceptionally low construction to enrollment ratio signaled a program in its infancy. The gap between units constructed and units enrolled would likely narrow. An evaluation of all platted and constructed units in the records of County Assessor’s for the three CAP counties indicated that roughly 80% of platted units are constructed. Therefore, it was assumed that, over time, constructed units will stabilize at 80% of enrolled units.

From here, consideration was given to the total number of units projected to be constructed in 2035 (the latest data point in the Outlook data). It was assumed that Member Land subdivisions will take no more than twenty years to build out. Therefore, 100% of Member Land units enrolled through 2015 (the last year of enrollment under this Plan) will be constructed by 2035. Based on this, the current construction was subtracted from the 2035 projection and that number was divided by the years between 2035 and the current construction year. The result of this computation (approximately 18,500 units per year) became the assumed number of new Member Land units to be enrolled annually. This assumption leads to a total projection of about 342,000 units enrolled through 2015. The summary of projected enrollment is presented in **Table 3.3** below. This table shows that the ratio of constructed to enrolled units is expected to be just under 80% in 2015, and that all 342,000 units will be constructed by 2035. A projection of constructed Member Land units, distributed by AMA, is provided in **Table C-5** in Appendix C.

Table 3.3
Member Land Enrollment and Construction Projections (Dwelling Units)

Description	2005	2010	2015	2020	2025	2030	2035
Member Land Units Enrolled	138,000	250,000	342,000	342,000	342,000	342,000	342,000
Member Land Units Constructed	77,000	148,000	266,000	306,000	328,000	336,000	342,000
Percent Constructed to Enrolled	56%	59%	78%	89%	96%	98%	100%

3.2.4 Converting Projected Groundwater Demands to Estimated Replenishment Obligations

In order to estimate CAGR D replenishment obligations, the groundwater demands that are calculated as described above must be adjusted to account for allowable groundwater pumping. The AWS Rules provide for a “groundwater allowance” that is not subject to replenishment. The volume of this groundwater allowance is based on the subdivision’s or service area’s water demands, and the exact method for calculating the allowance varies depending on the AMA.¹¹ In addition, a landowner may extinguish its “grandfathered” groundwater rights, which results in an accrual of extinguishment credits under the AWS Rules (the volume of the resulting extinguishment credits varies depending on the AMA¹²). These extinguishment credits may be pledged for use under a specific Certificate or Designation of AWS. Use of the extinguishment credits is also considered allowable groundwater pumping that is not subject to replenishment. Therefore, the sum of the groundwater allowance and extinguishment credits available to a CAGR D member can have a significant impact on the estimated replenishment obligation for that member.

In developing a membership enrollment program in 1995, it was necessary to consider the potential financial effects that allowable groundwater pumping could have on the CAGR D. The AWS Rules did not restrict the volume of allowable groundwater that could be used in any year. Thus, if a member could use all of its allowable groundwater before reporting any Excess Groundwater uses to CAGR D, then CAGR D would potentially have no replenishment obligations for that member for years or even decades. Without a replenishment obligation, CAGR D would have no mechanism for collecting assessments and taxes from its members. CAGR D could not initiate operations with a possibility of little or no revenue generation during its first ten years. Therefore, enrollment documents for CAGR D membership (i.e., the ML Declarations, ML Agreements and MSA Agreements) have always included a provision requiring that a minimum amount of Excess Groundwater use be reported annually to CAGR D.¹³ The result is that CAGR D incurs replenishment obligations sooner and is able to generate revenues to support its operations, and the members’ allowable groundwater credits last longer.

¹¹ Of the three AMAs served by CAGR D, groundwater allowances are the most liberal in the Pinal AMA and the least liberal in the Phoenix AMA. The allocation factor for determining allowable groundwater volumes in the Phoenix and Tucson AMAs is reduced from one Management Period to the next (i.e., a subdivision in the Phoenix or Tucson AMA that is issued a CAWS in the second management period would receive a larger groundwater allowance than it would if it was issued the CAWS in the third management period). The methods for calculating groundwater allowances are provided in R12-15-705(G) and (H) of the AWS Rules.

¹² The methods for calculating extinguishment credits are provided in R12-15-705(M) of the AWS Rules.

¹³ Minimum factors were established for use in CAGR D enrollment documents. These factors were based on factors provided in early drafts of the state’s new AWS Rules. The factors are multiplied by the member’s total groundwater use to determine the amount of Excess Groundwater used. Thus, if a member uses no groundwater, then its Excess Groundwater use is also zero. The minimum factors are provided in **Table D-1** in Appendix D of this Plan.

To provide a reasonable estimate of CAGR D replenishment obligations, it is necessary to reduce CAGR D members' projected groundwater use by the assumed allowable groundwater pumping. The following describes the assumptions that were used in estimating CAGR D's replenishment obligations based on the groundwater demands provided from the Outlook 2003 analysis described above.

3.2.4.1 Existing Member Lands – Projected Parcel Replenishment Obligations

Actual groundwater allowance volumes are known for existing MLs because ADWR makes the determination and notifies CAGR D of the volume upon issuance of a CAWS. For all existing MLs except those served by Arizona Water Company, it was assumed that, for each year, the maximum volume of allowable groundwater use, as provided in the CAGR D ML agreements, would be reported until the volume of allowable groundwater credits is exhausted.¹⁴ For those existing MLs in the Phoenix and Tucson AMAs that are served by Arizona Water Company, it was assumed that 100% of the projected groundwater demand would be reported as Excess Groundwater through 2014 (i.e., no allowable groundwater use¹⁵). For reports beginning in 2015, it was assumed that Arizona Water Company would report all groundwater deliveries to its existing MLs as allowable groundwater until the volume of allowable groundwater credits is exhausted. Once each ML's groundwater allowance has been exhausted, CAGR D's replenishment obligation is assumed to equal the projected groundwater demand for the ML.

Projected Excess Groundwater use by existing CAGR D MLs is presented in **Tables D-2 through D-4** in Appendix D.

3.2.4.2 Future Member Lands – Projected Parcel Replenishment Obligations

Outlook 2003 provided the total projected demands for future MLs by municipal provider. As described above, these volumes were adjusted to estimate the total groundwater demands by MLs that would enroll in the CAGR D by the end of 2015. These total demands, which represented future ML build-out demands, were used to estimate groundwater allowances available to, as well as Excess Groundwater deliveries by, each municipal provider serving future MLs. The process for making these estimations is described below.

For the Phoenix and Tucson AMAs, this estimation was fairly straightforward. The total build-out demands were pro-rated to determine the volumes attributable to enrollment during each of the third and fourth management periods.¹⁶ The groundwater allowance allocation factors from the AWS Rules (R12-15-705(G)) were used to calculate the estimated groundwater allowance volumes available to each municipal provider. As indicated in **Table D-1** in Appendix D, all Phoenix and Tucson AMA MLs enrolling after 2003 are contractually obligated to report two-thirds of their total groundwater use as Excess Groundwater. The remaining one-third can be offset using groundwater

¹⁴ The groundwater allowance in the Pinal AMA is an annual allowance rather than a one-time volume. Therefore, Pinal AMA groundwater allowances are never fully exhausted.

¹⁵ This assumption is based on Arizona Water Company's historic reporting practices.

¹⁶ The management periods are defined in statutes. The third management period is 2000 to 2010 and the fourth management period is 2010 to 2020, ARS §§ 45-566 and 45-567.

allowance credits. Therefore, to estimate CAGR D’s replenishment obligations for future MLs, the municipal provider’s total groundwater demand for these MLs was reduced by one-third until the allowable groundwater volume was exhausted. From that point on, CAGR D’s replenishment obligation equaled the projected groundwater demand for the ML.

For the Pinal AMA, this estimation was less straightforward due to the rules that are used to determine the groundwater allowances in that AMA. Groundwater allowances in the Pinal AMA are based on gallons-per-capita-per-day (“gpcd”) factors rather than total subdivision water demands. Therefore, the total groundwater demands for future MLs from the Outlook 2003 study could not be used to estimate Excess Groundwater use by future MLs in Pinal AMA in the same way as had been done for MLs in the Phoenix and Tucson AMAs. Instead, the total groundwater demand was multiplied by a factor derived from data established for existing Pinal AMA MLs. This factor was calculated for each year by dividing the total estimated Excess Groundwater demand for existing MLs by the total projected groundwater use by those existing MLs. The resulting factors are shown in **Table 3.4** below.

TABLE 3.4
Excess Groundwater Factors for Future MLs in Pinal AMA by Year

2005	2006	2007	2008	2009	2010-2024	2025+
17%	24%	28%	31%	32%	34%	35%

Projected Excess Groundwater deliveries to current and future CAGR D MLs are presented in **Tables D-5 through D-7** in Appendix D.

3.2.4.3 Member Service Areas – Projected Service Area Replenishment Obligations

As with existing MLs, actual groundwater allowance volumes are known for existing MSAs because ADWR performs the calculation and notifies CAGR D of the volume upon issuance of a DAWS. In addition, MSAs in the Phoenix and Tucson AMAs are also credited with an incidental recharge credit each year based on the total water deliveries within the service area during the year, according to AWS Rule R12-15-705(K). It was assumed that, for each year, the maximum volume of allowable groundwater use, as provided in the CAGR D MSA agreements, would be reported for an MSA, until the volume of allowable groundwater credits is exhausted.¹⁷ From that point on, CAGR D’s replenishment obligation was assumed to equal the projected groundwater demand for the MSA minus any incidental recharge credits generated each year, subject to enrollment limitations discussed in the next paragraph.

To comply with the requirement to develop this Plan based only on enrollment through 2015, it was necessary to develop a mechanism for estimating how such a limitation would impact projected obligations for MSAs. The total groundwater demands from the

¹⁷ As with MLs, the groundwater allowance for MSAs in the Pinal AMA is an annual allowance rather than a one-time volume. Therefore, Pinal AMA groundwater allowances are never fully exhausted.

Outlook 2003 study represent unrestricted demands through 2035. In several cases, the resulting groundwater demands exceeded the maximum volume allowed under (a) the service area's existing DAWS or (b) the existing MSA Agreement with CAGR. Therefore, the projected obligations for enrollment through 2015 were calculated using the following assumptions.

- If the MSA's total projected groundwater demands through 2035 did not exceed volumes allowed under the MSA's existing DAWS or its MSA Agreement with CAGR, then these total projected groundwater demands were used to estimate CAGR's replenishment obligations.
- If the MSA's total projected groundwater demands through 2035 exceeded volumes allowed under the MSA's existing DAWS or its MSA Agreement with CAGR,¹⁸ then it was assumed that:
 - The MSA would be granted an expansion of its DAWS in 2015,¹⁹ thereby allowing continued growth for an additional ten years (through 2025);²⁰
 - The expanded DAWS would be based on the volume of projected groundwater demands in 2025, as determined based on the Outlook 2003 study;
 - CAGR's service area replenishment obligations would be limited to the volume allowed under the expanded DAWS (i.e., maximized at 2025 demands).
- For all MSAs, it was assumed that CAGR's service area replenishment obligations in each year after 2035 would equal the obligation estimated for 2035.

Projected Excess Groundwater use by all CAGR MSAs is presented in **Table D-8** in Appendix D.

3.3 ESTIMATED 20-YEAR OBLIGATIONS FOR CURRENT MEMBERS

As indicated in Section 1 above, CAGR is required to provide an estimate of its current and projected groundwater replenishment obligations for current members for the twenty calendar years following the submission of this Plan. **Table 3.5** below provides these estimates for each AMA during the period 2005 through 2025. These volumes reflect estimated obligations for members enrolled through December 31, 2003. These volumes also reflect the assumption that CAGR's replenishment obligations for current MSAs will be limited to the lesser of:

¹⁸ Only four MSAs fell into this category: Marana, Surprise, Eloy and Johnson Utilities.

¹⁹ It was also assumed that Johnson Utilities' MSA Agreement would also be modified to allow for the increased demand.

²⁰ The City of Surprise's total groundwater demands under its existing DAWS allowed continued growth beyond 2025 based on the Outlook projections. Therefore, it was not necessary to assume that Surprise's DAWS would be expanded.

1. The maximum volume that can be reported as Excess Groundwater under the existing MSA Agreement, or
2. The maximum volume of groundwater pumping supported by CAGR membership, as determined by ADWR under the MSA's existing DAWs.

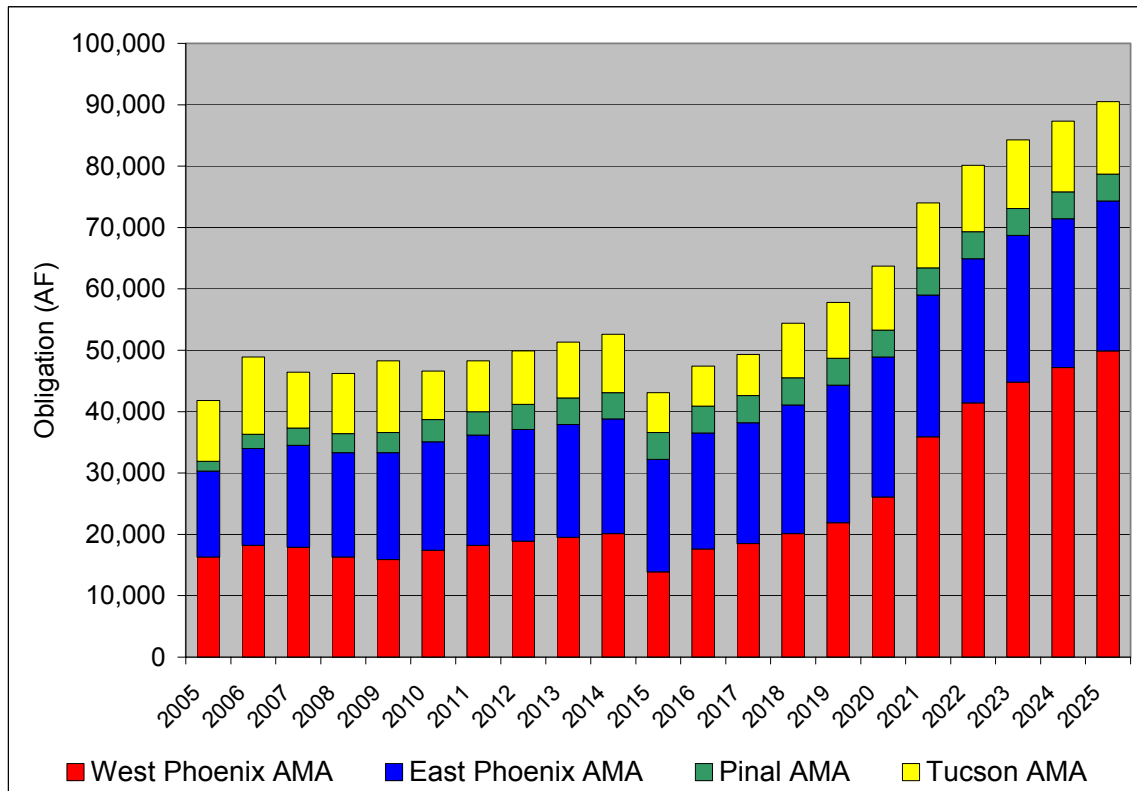
TABLE 3.5
Estimated 20-Year Replenishment Obligations for Current Members (AF)

Year	West Phoenix AMA	East Phoenix AMA	Pinal AMA	Tucson AMA	Total All AMAs
2005	16,200	14,000	1,100	9,900	41,800
2006	18,200	15,800	1,800	12,500	48,900
2007	17,900	17,100	2,200	9,100	46,300
2008	16,300	17,600	2,500	9,900	46,300
2009	15,900	17,900	2,700	11,700	48,200
2010	17,400	18,300	3,000	8,000	46,600
2011	18,200	18,500	3,100	8,300	48,300
2012	18,900	18,800	3,300	8,700	49,900
2013	19,500	19,000	3,500	9,100	51,300
2014	20,100	19,300	3,600	9,500	52,700
2015	13,900	18,800	3,800	6,500	43,100
2016	17,600	19,500	3,800	6,500	47,400
2017	18,500	20,300	3,800	6,700	49,300
2018	20,100	21,600	3,800	8,900	54,400
2019	21,900	23,000	3,800	9,100	57,800
2020	26,100	23,400	3,800	10,400	63,800
2021	36,000	23,700	3,800	10,500	74,100
2022	41,300	24,000	3,800	10,800	80,100
2023	44,800	24,500	3,800	11,200	84,200
2024	47,200	24,800	3,800	11,500	87,400
2025	49,800	25,000	3,800	11,700	90,500

Table D-9 in Appendix D provides a more detailed version of this table, with information broken down by MLs and MSAs. **Figure 3.1** below provides a graph showing these estimates. It should be noted that the decrease in projected obligations from 2014 to 2015 reflects an assumed increase in the use of allowable groundwater credits as allowed under

provisions of existing CAGR ML and MSA Agreements. It should also be noted that Table 3.5 and Figure 3.1 do not reflect build-out obligations since the obligations for some MSAs will continue to grow beyond 2025.

FIGURE 3.1
Summary of Estimated 20-Year Replenishment Obligations For Current Members



3.4 ESTIMATED 100-YEAR OBLIGATIONS FOR CURRENT AND FUTURE MEMBERS

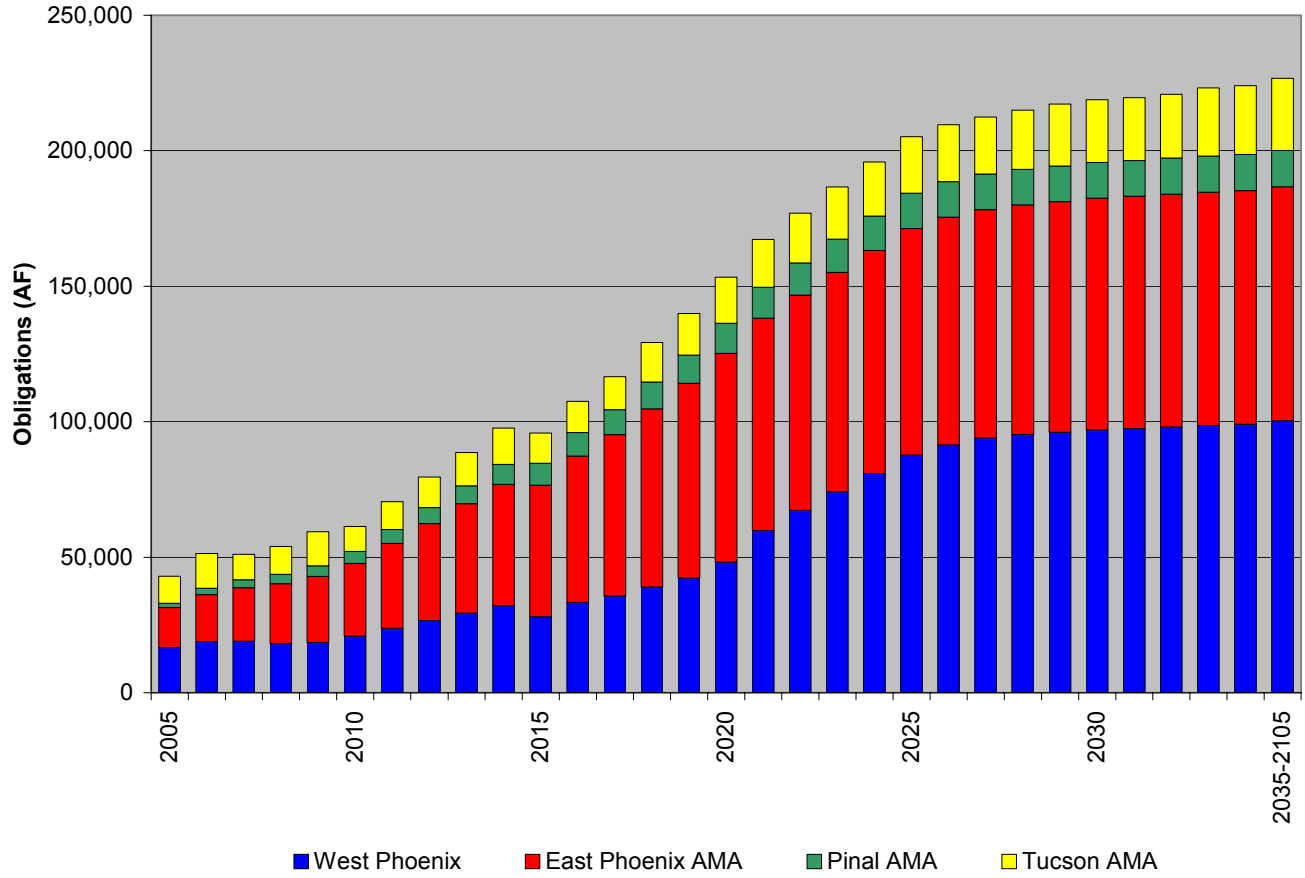
As indicated in Section 1 above, CAGR is required to provide an estimate of its projected groundwater replenishment obligations for the next one hundred calendar years for current members and members expected to enroll during the next ten years. **Table 3.6** provides these estimates for each AMA during the period 2005 through 2105.

TABLE 3.6
Estimated 100-Year Replenishment Obligations
For Current and Future Members

Year	Projected Obligations (AF)				
	West Portion of Phoenix AMA	East Portion of Phoenix AMA	Pinal AMA	Tucson AMA	Total All AMAs
2005	16,600	14,800	1,600	10,000	43,100
2006	18,900	17,300	2,400	12,800	51,500
2007	19,000	19,700	3,000	9,400	51,300
2008	18,100	22,100	3,500	10,300	54,000
2009	18,500	24,400	3,900	12,600	59,400
2010	20,900	26,800	4,400	9,300	61,300
2011	23,800	31,300	5,100	10,300	70,500
2012	26,600	35,800	5,900	11,300	79,600
2013	29,400	40,300	6,600	12,300	88,600
2014	32,100	44,800	7,400	13,400	97,700
2015	28,000	48,600	8,100	11,100	95,800
2016	33,300	54,000	8,700	11,500	107,500
2017	35,700	59,500	9,300	12,100	116,700
2018	39,000	65,700	9,900	14,700	129,200
2019	42,300	71,900	10,400	15,400	140,000
2020	48,200	77,100	11,000	17,100	153,400
2021	59,900	78,300	11,400	17,700	167,300
2022	67,300	79,500	11,800	18,400	177,100
2023	74,200	80,900	12,300	19,200	186,600
2024	80,900	82,300	12,700	20,000	195,900
2025	87,700	83,600	13,100	20,800	205,200
2026	91,500	84,000	13,100	21,000	209,600
2027	94,000	84,300	13,100	21,100	212,600
2028	95,300	84,700	13,200	21,800	214,900
2029	96,100	85,100	13,200	22,900	217,300
2030	97,000	85,500	13,200	23,100	218,800
2031	97,500	85,700	13,200	23,200	219,600
2032	98,100	85,900	13,300	23,500	220,800
2033	98,600	86,100	13,300	25,200	223,100
2034	99,100	86,200	13,300	25,500	224,100
2035-2105	100,400	86,300	13,400	26,700	226,800

Table D-10 in Appendix D provides a more detailed version of this table, with information broken down by MLs and MSAs. **Figure 3.2** below provides a graph showing these estimates.

FIGURE 3.2
Summary of Estimated 100-Year Replenishment Obligations
For Current and Future Members



4.0 WATER SUPPLIES

As described in Section 3 above, CAGR D projects its replenishment obligations to reach about 227,000 acre-feet per year for current members and future members that are expected to enroll through 2015. Excess CAP water²¹ will not be sufficient to meet all of these obligations during the next 20 years, much less the next 100 years. Therefore, CAGR D will identify and acquire rights to a portfolio of water supplies over the next 20 to 25 years that can be used to meet CAGR D's replenishment obligations over both the short and long term.

4.1 PROGRAM TO PROMOTE CONSERVATION BY CAGR D MEMBERS

CAGR D recognizes the benefits that an effective conservation program could have on its operations. Less groundwater use by CAGR D members means less replenishment obligations for CAGR D, and a corresponding reduction in the volume of water necessary for CAGR D to acquire. This results in lower costs for CAGR D and its members, and less competition for potentially scarce water supplies in the future. The state of Arizona has already made great strides in establishing an effective conservation program. In fact, all members of the CAGR D are subject to the state's municipal conservation regulatory program. However, more can be done to promote water conservation. Therefore, CAGR D will increase its efforts to promote conservation by its members.

To determine the most effective means of promoting water conservation, within sixty days of Board adoption of the Plan of Operation, CAGR D will convene a Conservation Committee consisting of members from the CAGR D Stakeholder Working Group, or a subgroup thereof, to serve in an advisory role as staff develops a CAGR D conservation program focused on the areas outlined below. CAGR D staff will propose a specific conservation program to the Board of Directors no later than January 2006, with interim updates on no less than a quarterly basis detailing the progress of program development.

4.1.1 Participation in Statewide Conservation Strategy

On March 20, 2003, Governor Napolitano signed Executive Order #2003-12 establishing the Governor's Drought Task Force with leadership to be provided by the Arizona Department of Water Resources. Among the provisions of the Executive Order are two requirements that pertain directly to conservation: (1) the development and implementation of a statewide water conservation strategy, and (2) the establishment of a Conservation Education Task Force Group. The Statewide Conservation Strategy (Strategy) was approved by the Governor's Drought Task Force on October 6, 2004 for submission to the Governor. The stated overall goal of the Strategy is to achieve greater water use efficiency for the state resulting in measurable water savings. Key recommendations in the Strategy include development of partnerships to provide funding and "buy-in" for the establishment of new conservation programs; continuation and expansion of existing education programs; providing technical assistance to water providers and/or customers; creation of a state sponsored conservation web site, and

²¹ Excess CAP water is CAP water not ordered under a CAP water service contract or subcontract.

creation of conservation incentives. CAGR D will analyze these recommendations to determine how it will coordinate with the State in achieving the State's goal of greater water use efficiency resulting in measurable water savings. CAGR D will develop recommendations for its participation in the Statewide Conservation Strategy. Specific recommendations for active participation by CAGR D in the Statewide Conservation Strategy will be presented for Board direction at the first interim update or no later than April 2005.

4.1.2 Education

CAGR D will work with stakeholders, water providers, ADWR and other state and local agencies to develop materials that will serve to educate landowners within CAGR D MLs and MSAs. CAGR D will develop informational material that describes what CAGR D is, why it was formed, how it operates, how it establishes and collects its assessments and why it is important for its members to conserve water. CAGR D will work to accomplish the goal that such material is made available to all potential homebuyers in new home sales offices within CAGR D MLs. Finally, CAGR D will coordinate with water providers serving MLs and MSAs to have an educational brochure delivered annually to each water user in the provider's service area.

4.1.3 Conservation Support Program

In conjunction with the education effort, CAGR D will develop recommendations on a program to support CAGR D members pursuing proactive conservation efforts and measures. This program may include a variety of elements such as technical assistance, rate incentives or grants to municipal water providers serving MLs or MSAs who demonstrate that they are enhancing their conservation programs. Since many municipal water providers serving CAGR D members are private water companies under the Arizona Corporation Commission's oversight, a support program like this could provide a financial mechanism for those providers to implement additional conservation measures.

4.1.4 Implementing Conservation Features

The Arizona Statewide Conservation Strategy referenced above states that various studies indicate that reductions in outdoor water use offer the greatest opportunity for residential water savings. To a lesser extent, reductions in indoor water use may also offer an opportunity for water savings. With these in mind, as part of the conservation program recommendations, CAGR D will analyze the potential to provide incentives for implementing and/or the potential for requiring implementation of various conservation features in developments proposed for CAGR D MLs and MSAs.

To finance conservation efforts, CAGR D will analyze a variety of potential funding mechanisms and make recommendations in conjunction with the proposed conservation program. During program development, CAGR D will periodically convene its full Stakeholder Working Group to evaluate the program recommendations. Subsequent to Board approval and implementation of the conservation program, CAGR D will call a meeting of its Stakeholder Working Group no less than once per year to evaluate the effectiveness of the conservation program.

4.2 CONSIDERATIONS IN ASSEMBLING A PORTFOLIO OF WATER SUPPLIES

The following describes the factors that CAGR D considered in developing a water supply acquisition plan to meet its replenishment obligations.

4.2.1 Volume

While CAGR D's obligations are projected to reach 227,000 acre-feet per year, CAGR D's actual need for water supplies is different for two reasons. First, the City of Scottsdale's membership is based on a requirement that Scottsdale provide a backup water supply to CAGR D when Excess CAP water is not available.²² This reduces the annual volume of obligations for which CAGR D must plan to acquire water supplies from 227,000 acre-feet per year to about 223,500 acre-feet per year. Second, CAGR D must consider recharge losses when calculating the volume of water needed to meet its replenishment obligations. Assuming that recharge losses will average about 1% of the total volume recharged, CAGR D will need a total annual volume of about 225,700 acre-feet to satisfy a 223,500 acre-foot annual obligation.²³

4.2.2 Timing

Figure 3.2 shows that CAGR D's obligations are projected to grow over time to the projected maximum of 227,000 acre-feet per year. In fact, CAGR D's actual obligation in 2015 is only projected to be about 100,000 acre-feet. It is also possible that economic conditions could result in a slower rate of new enrollment than the 18,500 units per year rate projected in this Plan. Therefore, it is important to develop a plan for acquisition of water supplies that is aggressive enough to ensure that CAGR D can meet its obligations, but is not overly aggressive in the event that enrollment slows down. It is also important to make sure that the plan can be funded through reasonable assessments and fees collected over time from CAGR D members.

4.2.3 Method of Acquisition

CAGR D has identified six different methods of acquiring water supplies, one or more of which may apply to a given supply. These six methods are discussed below.

4.2.3.1 Annual Water Supply Leasing

Under an annual water supply lease, CAGR D would lease a given quantity of water for a certain period of time from the present water rights owner. Lease payments could be

²² The City of Scottsdale is required under existing statutes and under the "Water Availability Status Contract to Replenish Groundwater Between CAWCD and Scottsdale" to provide CAGR D with a supply of water sufficient to meet Scottsdale's annual contract replenishment obligations (a maximum of 3,460 acre-feet per year). Scottsdale has taken appropriate steps to secure groundwater in the Harquahala Valley that can be transported to the Phoenix Active Management Area for replenishment when Excess CAP water is not available.

²³ The original Conceptual Plan discussed a need to obtain sufficient water supplies to account for a 5% cut-to-the-aquifer. As a result of discussions by the Stakeholder Working Group and cooperation with CAWCD, ADWR and others, legislation was adopted in 2004 to exempt CAGR D from the cut-to-the-aquifer provisions in law. Accordingly, the described volume of 225,700 acre-feet per year does not include a 5% cut-to-the-aquifer.

made up-front, as has been the custom with Indian Water Right Leases executed in Arizona to date, or could be made annually based on volumes received.

4.2.3.2 Intermittent Leasing

A common variant of the annual lease is the intermittent lease or option lease, which is activated in some years and lies unexercised or dormant in other years. Usually, payments are made annually for the right to call upon a given quantity of water under defined conditions or “triggers.” Hydrologic conditions are the most common triggers (i.e., dry years), although the CAGRDR might find that wet years’ supplies could also be less expensive and useful if recharge credits can be effectively banked. Intermittent leases can be less expensive and cause less impact to the current water user than annual leases.

4.2.3.3 Fallowing/Forbearance

Fallowing would require the CAGRDR to enter into agreements with water users to forego the use of at least a portion of their water for a single year in return for financial compensation. This approach is most likely to be employed with agricultural water users. For example, CAGRDR could work with an irrigation district to develop a fallowing program that could involve all or most farmers within the irrigation district’s boundaries, thus potentially reducing the concentration of impact. One advantage of this approach is that the districts and farmers themselves select the marginal lands and marginal crops to be fallowed.

4.2.3.4 Water Rights Purchase

Under such a purchase arrangement, CAGRDR would acquire the water right itself from existing owners. The water right must be severable from the land, and title to the water must be free and clear. The land itself is left with the current owner, who may utilize other water resources or convert to dry land activities. The primary advantages of the water rights purchase arrangement are the locking-in of price and the acquisition of a permanent water supply.

A variation on this method of acquisition is a transfer of a CAP water service subcontract to CAGRDR. In this case, CAGRDR would not actually “purchase” a water right, but it would receive an entitlement to CAP water pursuant to ADWR’s and CAWCD’s transfer and relinquishment policies.

4.2.3.5 Purchase Land with Water Rights

This acquisition strategy is similar to the purchase of water rights, except that the land is acquired along with the water rights. The land is leased back to the current owner for dry land operation, operated on a contractor-tenant-farmer basis, or sold without water rights. This strategy might be preferred by farmers who see no value to their lands without the water rights, or farmers who want to avoid maintaining the land in some fashion. Also, there may be legal constraints to severing the water rights from the land, requiring the land to be purchased with the water rights.

4.2.4 Seeking a Balance of Short-term and Long-term Supplies

CAGR D's Initial Plan of Operation relied exclusively on Excess CAP water as the source of water supply to meet its replenishment obligations. A number of conditions have changed in the years since the Director of ADWR approved the Initial Plan. First, CAGR D's membership (and corresponding replenishment obligation) has grown well beyond expectations. Second, CAP subcontractors and contractors are developing infrastructure that allows them to use significant volumes of their CAP entitlements, thus resulting in less Excess CAP water availability. Third, new legislation has been adopted that extends CAGR D's planning horizon to 100 years. And fourth, CAGR D must develop a replenishment reserve of long-term storage credits in each AMA,²⁴ the volume of which depends on the types of water supplies that CAGR D intends to use to meet its obligations into the future. For all of these reasons, this Plan calls for a significant portion of CAGR D's water supply portfolio to consist of long-term water supplies.²⁵ However, CAGR D also plans to continue to make use of short-term water supplies to meet a significant portion of its obligations through 2015 and beyond.²⁶ Use of short-term water rights will be less expensive for CAGR D members and will increase the efficient use of available water supplies in Arizona.²⁷ An example is CAGR D's potential use of effluent. Many municipalities plan to ultimately use most or all of the effluent they generate to meet their own AWS requirements. However, it is anticipated that some effluent will be available over the short-term (during the next twenty to thirty years) for use by CAGR D through mutually beneficial arrangements with those municipalities.

4.2.5 Use of CAP Wheeling Capacity

It is anticipated that a large volume of CAP water supplies will be available for redistribution over the next 20 years. Such supplies include Non-Indian Agricultural (NIA) priority water made available through recent Indian settlement and CAP repayment negotiations as well as Indian-priority CAP that may be leased for up to 100 years. Since these CAP supplies are considered "project water," they will not require a wheeling arrangement with CAWCD to be moved through the CAP system. On the other hand, there will likely be high demand for these supplies by municipalities looking to increase their own water supply portfolios. Therefore, CAGR D will develop a water supply portfolio consisting of both project and non-project water supplies. For that portion of the supplies that are made up of non-project water that requires transportation through the CAP aqueduct system, CAGR D must comply with any non-project wheeling policies adopted by the CAWCD Board.

²⁴ The Replenishment Reserve program is explained more thoroughly in section 5 of this Plan.

²⁵ For purposes of this Plan of Operation, a "long-term" supply would be represented by a water right (or combination of rights) that yields a quantified average volume of water for at least 99 years.

²⁶ A "short-term" supply would be represented by a water right (or combination of rights) that yields a quantified volume of water when averaged over a period less than 99 years.

²⁷ Unlike most municipal water providers, CAGR D provides replenishment services rather than direct water delivery service. Thus, in general, short-term supplies can be more effectively utilized by CAGR D than by many municipal providers. In addition, CAGR D is not required by law to hold rights to long-term water supplies to meet its replenishment obligations. Therefore, CAGR D has the flexibility in statute and in practice to utilize non-firm and shorter-term supplies, when they are available, to meet replenishment needs.

4.2.6 Legal Restrictions

There are a number of legal considerations that can impact the availability of a water supply source. One example is that existing statutes restrict the sources from which groundwater may be pumped and imported into the AMAs served by CAGR D. Another example is that leases of water supplies from Indian tribes on the Colorado River are not currently authorized and would likely require congressional action. Therefore, such legal restrictions must be taken into account when determining whether a water supply source is available and/or desirable.

4.2.7 “Wet” water vs. “Paper” Water

Any water supply acquisition plan must be structured to avoid paying for water supplies that would have otherwise been available to CAGR D without payment. For example, there are a number of water users on the Colorado River that are not using the full volume to which they are entitled. This unused Colorado River water increases the total supplies available to the CAP, generally increasing the availability of Excess CAP supplies. Therefore, CAGR D does not plan to enter into arrangements to purchase or lease another entity’s water supplies that do not result in a corresponding reduction in that entity’s actual water use.

4.2.8 Third Party Impacts

In acquiring certain water supplies, CAGR D will enter into voluntary contracts or arrangements with individual water users or groups of water users who will be appropriately compensated. However, there are often “third parties” to such transactions and any potential negative economic effects they may experience as a result of the CAGR D acquisitions must be analyzed. If a sufficient number of third parties are affected, or if a concentration of impacts is substantial, the third party economic impacts can become regional in nature. Lower business revenues can spark lower retail sales, reduced property taxes and declining employment for an entire region. All of this must be addressed in considering the purchase of a water supply.

4.3 IDENTIFYING POTENTIAL SUPPLIES TO BE ACQUIRED

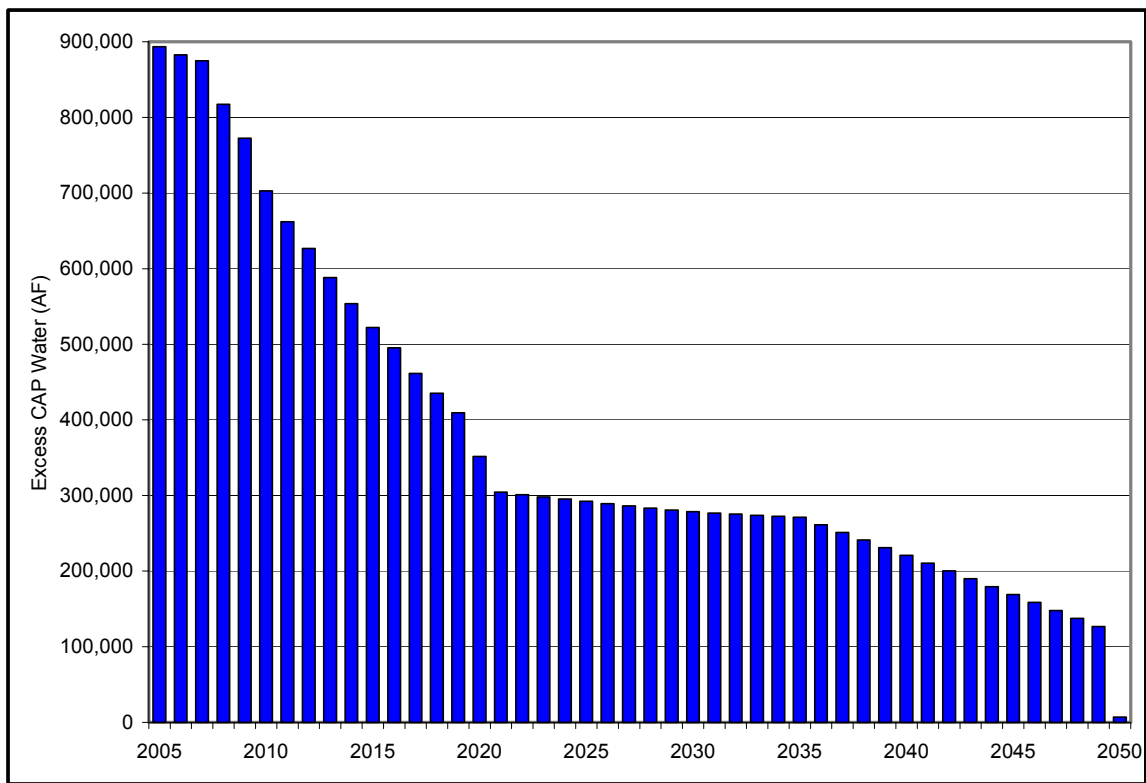
CAGR D performed analyses of various types of water supplies that could be acquired for use in meeting replenishment obligations. The following describes each type of water supply that CAGR D could acquire.

4.3.1 Excess CAP Water

In a cooperative effort, CAWCD, ADWR, and the Arizona Water Banking Authority (“AWBA”) projected the annual volume of Excess CAP water that will be available in the future. Customers for this Excess CAP water will likely include CAGR D, AWBA (for CAP M&I firming, On-River firming, Indian firming, and interstate water banking), Incentive Recharge customers, Salt River Project for “drought relief”, M&I entities for direct use deliveries, and CAP NIA customers. The CAWCD Board will make decisions regarding the marketing of available Excess CAP water supplies on an annual basis.

The projected annual supply of available Excess CAP water is shown in **Table E-1** in Appendix E, and graphically in **Figure 4.1** below. The estimate of available Excess CAP water was calculated by subtracting projected annual uses under CAP water service contracts and subcontracts from the estimated Colorado River supply available to CAP. Normal year Colorado River supplies were assumed throughout the planning period. **Figure 4.1** illustrates a reduction in the availability of Excess CAP water due to increases in projected uses under CAP contracts and subcontracts. The availability of Excess CAP water is expected to end in 2050 due to full use of available water by CAP contractors and subcontractors.

FIGURE 4.1
Total Projected Available Excess CAP Water Supplies

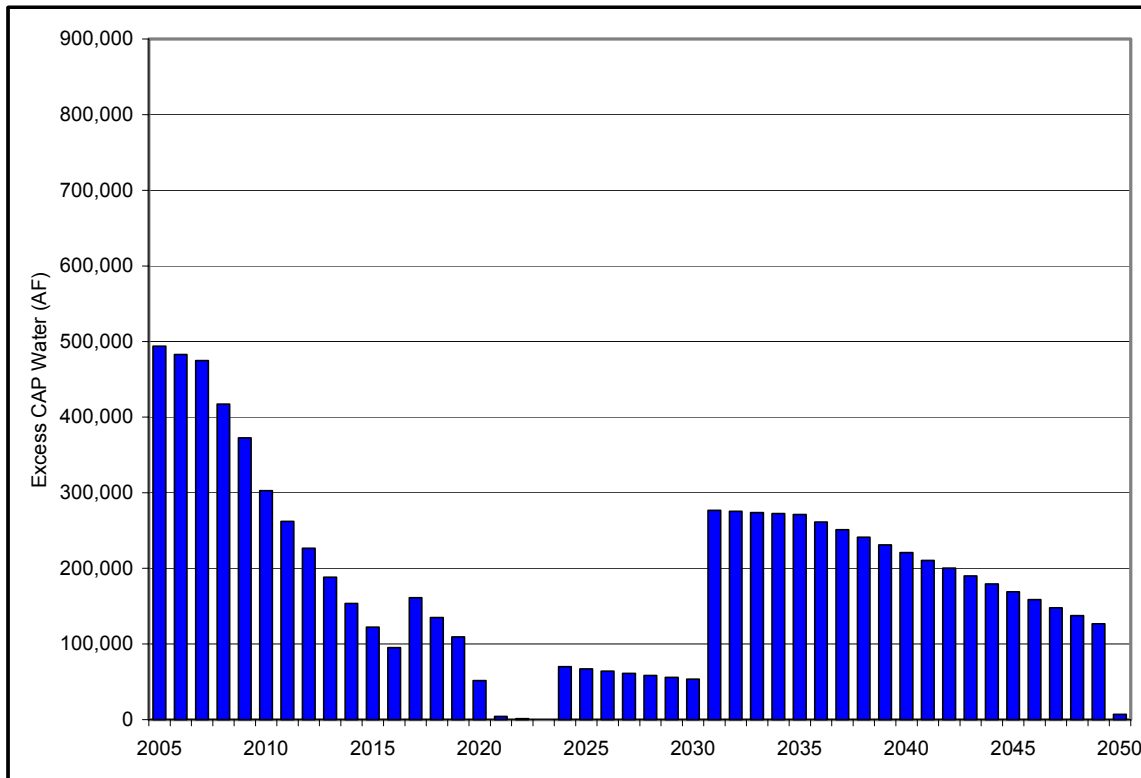


In accordance with existing Board policy and commitments made in the current Arizona Water Settlement Agreement,²⁸ an NIA settlement pool holds the highest priority for Excess CAP water deliveries through 2030. Under these commitments, the NIA

²⁸ The Arizona Water Settlement Agreement among the United States, the Arizona Department of Water Resources and the Central Arizona Water Conservation District provides a framework under which non-Indian agricultural water users with long-term contract entitlements to CAP water will be allowed to relinquish their CAP entitlements in return for relief from certain federal debt and regulatory requirements, among other benefits. Under the Agreement, the Secretary of the Interior will reallocate the water relinquished by non-Indian agricultural contractors: Two-thirds of the relinquished water will be reallocated for Indian use to facilitate water rights settlements, and one-third will go to the State of Arizona for future M&I use. Final execution of the Agreement is still pending as of this writing.

settlement pool has priority to 400,000 AF/Yr of Excess CAP Water deliveries through 2016. The commitment is reduced to 300,000 AF/Yr during the period 2017 through 2023, and further reduced to 225,000 AF/Yr from 2024 through 2030. **Figure 4.2** depicts the projected available Excess CAP water after NIA settlement pool commitments are satisfied. This graph indicates that there will be a significant volume of Excess CAP water available after 2030. However, since the NIA settlement pool will no longer be available at that time, it is likely that there will be some NIA demand for that Excess CAP Water along with the demands by others.

FIGURE 4.2
Projected Excess CAP Water Supplies Available After NIA Commitments are Met



CAGR’s Initial Plan of Operation relied solely on Excess CAP water as the water supply available to meet the CAGR replenishment obligations. A review of the availability of Excess CAP water compared to the potential water use schedules of the CAGR and other Excess CAP water customers shows that there will not be sufficient Excess CAP water to meet all Excess water customers’ needs. The volume of Excess CAP water available to the CAGR and other excess water customers for the period 2005 through 2050 is approximately 9 million acre-feet (“MAF”). During the same period, the CAGR annual replenishment obligation totals more than 8.6 MAF. In addition, the AWBA may require more than 3.0 MAF to meet all of its projected needs. If the CAGR does not acquire rights to a significant volume of long-term supplies, the CAGR replenishment reserve target (described later in this document) could be more than 4.3 MAF. Other Excess CAP water customers’ needs during the period are

estimated to total approximately 1.0 MAF. It is clear that CAGR D and other Excess CAP water customer needs far outstrip the estimated Excess CAP water supply.²⁹

Therefore, although the CAGR D was able to rely exclusively on Excess CAP water for its Initial Plan, this approach will not work for the current Plan. CAGR D will need to acquire other water supplies to meet its replenishment obligations. By acquiring its own water supplies, CAGR D may also free up Excess CAP water in some years for use by other customers.

4.3.2 Other CAP Water Supplies

In addition to continued use of Excess CAP water, CAGR D will work to obtain rights to use CAP water supplies that are held under long-term contracts or subcontracts. As indicated above, because these supplies are “project supplies” of the CAP, they will not require wheeling capacity in the CAP aqueduct.

4.3.2.1 M&I Subcontracts

All subdivisions established after February 1995 within the water service areas of Litchfield Park Service Company (“LPSCo”), New River Utility Company (“NRUC”), Sunrise Water Company (“Sunrise”), and West End Water Company (“WEWC”) have been or will be enrolled as Member Lands of the CAGR D. As such, these water providers will deliver groundwater to the subdivisions, resulting in a requirement for subsequent replenishment by CAGR D. Since the water providers do not need to deliver CAP water directly to the subdivisions to comply with state law, they have all requested that their subcontract entitlements be transferred to the CAGR D for use in replenishing groundwater deliveries within their service areas. In accordance with state policy, ADWR reviewed these requests, held public hearings, and has recommended that all of the CAP M&I entitlements held by NRUC (1,885 AF), Sunrise (944 AF), WEWC (157 AF), along with 4,760 AF of LPSCo’s entitlement be transferred to the CAGR D. The total of these transfers is 7,746 AF.

4.3.2.2 Indian Leases

A number of Indian communities that hold contracts for CAP water have exhibited a willingness to lease a portion of their entitlements to others in lieu of using the water for agricultural purposes. By virtue of existing or pending water settlements, these Indian contractors have the authority to lease their CAP entitlements for off-reservation use. The communities that may be interested and able to lease CAP Indian water to CAGR D include the Ak-Chin, Gila River, San Carlos, Tohono O’odham and Fort McDowell. CAGR D assumes that it could obtain the right to use some of these supplies by executing lease agreements with one or more of these Indian communities. Such lease agreements could have terms ranging from five to ninety-nine years.

²⁹ It must be emphasized that the estimate of available Excess CAP water is based on normal year Colorado River supplies available to CAP. If surplus conditions occur, additional Excess CAP water will become available, while shortage conditions will reduce available Excess CAP supplies.

4.3.2.3 NIA Subcontracts

Under the Arizona Water Settlement Agreement, most of the NIA priority CAP subcontract entitlements have been relinquished by the irrigation districts to whom they were originally allocated. A significant portion of the relinquished NIA priority water has been reserved by the United States for Indian settlement purposes, but up to 96,000 AF of this NIA-priority water will be reallocated for non-Indian municipal purposes in the future. It is anticipated that ADWR will establish a process for developing recommendations for these reallocated NIA priority supplies, but that the first phase of the reallocation process will not begin until 2009. CAGR D intends to apply for a portion of the available NIA priority water during the reallocation process.

4.3.3 Effluent

A number of municipalities that are located within Maricopa, Pinal and Pima Counties are generating effluent supplies that exceed the amount that they can put to use for their own purposes. Although most of these municipalities plan to ultimately use most or all of the effluent they generate to meet their own AWS requirements, it is anticipated that some effluent could be made available for use by CAGR D through mutually beneficial arrangements with those municipalities. Such arrangements could include joint participation in project development/expansion or simply an agreement for CAGR D to purchase credits that a municipality accrues through recharge of its excess effluent supplies. It is assumed that such supplies would not require transportation through the CAP aqueduct system.

4.3.4 Colorado River Supplies

Colorado River water supplies could be made available to CAGR D from a number of entities in Arizona that hold contracts for such supplies and pump directly from the Colorado River. Such entities include Indian contractors (Colorado River and Fort Mojave Indian Tribes) as well as non-Indian irrigation water users (Yuma County Water Users Association, Yuma Mesa Auxiliary Unit B, North Gila Valley Unit, Wellton-Mohawk IDD, Yuma Mesa IDD and Cibola Valley IDD).³⁰ All of the Colorado River contracts held by these entities, except Cibola Valley IDD's, are higher in priority than CAP's Colorado River contract. Therefore, they would not be subject to shortage until CAP's supplies are fully cut. Any transfer of these "on-River" supplies to CAGR D will likely be complicated. Any lease and transfer agreement with the Indian contractors' water will likely require congressional approval in addition to approval from the tribal government and the Secretary of the Interior. Acquisition of water supplies from non-Indian irrigators through land purchase, lease, fallowing, forbearance and/or conservation arrangements will require compliance with applicable state and federal policies.³¹ Third-party impacts must also be addressed before on-River supplies can be made available to

³⁰ It is assumed that all non-irrigation contractors will need all of their Colorado River water supplies to meet their own demands, so these supplies will not be available to CAGR D.

³¹ The Secretary of the Interior routinely confers with ADWR regarding the transfer of on-river entitlements. ADWR has adopted a policy entitled "Policy and Procedures for Transferring an Entitlement of Colorado River Water." This policy explains how ADWR evaluates proposed transfers. It also includes a discussion on how ADWR would quantify the portion of an entitlement that may be transferred.

CAGR D. CAGR D’s use of on-River supplies will require transportation through the CAP aqueduct system.

4.3.5 Imported Groundwater

CAGR D is prohibited by law from using groundwater pumped from within an AMA to meet its replenishment obligations, ARS § 48-3771.C. However, under current statutes, there are a limited number of basins outside of the AMAs from which groundwater may be imported for use by CAGR D to meet its obligations in the Phoenix, Pinal and Tucson AMAs. Those basins include Butler Valley, McMullen Valley and Harquahala Valley.³²

4.3.6 Other Supplies

As technology advances and the value of new water supplies increases, there may be additional sources that could be developed for use by CAGR D to meet its replenishment obligations. The viability of treating salt water and other poor-quality water continues to improve each year. As advances in this technology are made, CAGR D will explore opportunities to participate with others in projects to develop new supplies either directly or through cooperative exchange agreements.

4.3.7 Summary of Water Supply Inventory

Table E-2 in Appendix E provides a detailed inventory of supplies that are potentially available for acquisition by CAGR D. This inventory is summarized in Table 4.1 below.

**TABLE 4.1
Summary of Water Supply Inventory**

Supply Type	Supply Potentially Acquirable by CAGR D* (AF/Yr)	Priority of Supply Compared to CAP M&I	Transmission Through CAP Aqueduct?	Requires Use of Excess CAP Aqueduct Capacity?	Potential Term of Supply	
Project Supplies	CAP M&I Subcontract	7,746	Equal	Yes	No	Long
	CAP Indian Lease	158,300	Equal or Lower	Yes	No	Short & Long
	CAP NIA-Priority Subcontract	48,000	Lower	Yes	No	Long
Non-Project Supplies	On-River Supplies	318,000	Mostly Higher	Yes	Yes	Short & Long
	Imported Groundwater	181,000	Higher	Yes	Yes	Long
	Effluent	205,000	Higher	No	No	Short & Long
Total	918,046					

* Based on implementation of the Arizona Water Settlement Agreement

³² Importation of groundwater from any of these basins will require compliance with a number of statutory restrictions and limitations, as well as negotiated agreements with the owners of existing lands to which groundwater rights are appurtenant.

This summary indicates that there are more than enough water supplies available for acquisition by CAGR D to satisfy the replenishment obligations identified in Section 3 of this Plan.

4.4 WATER SUPPLY ACQUISITION PLAN

The previous section described the various sources of water supplies available and the volumes that CAGR D could acquire from each of those sources. This section describes the volumes of each of those supplies that CAGR D currently plans to acquire and the timing of those acquisitions. It should be stressed, however, that this is only a plan that CAGR D will use as a general guide in the coming years. CAGR D must maintain maximum flexibility as it proceeds with the process of identifying and acquiring the actual water supplies that will ultimately make up its water supply portfolio. This is necessary because CAGR D cannot know all that will be encountered technically, administratively and legally with each type of supply until the work is actually initiated. In addition, CAGR D must maintain the best negotiating position possible as the process moves forward. Therefore, this Plan should not be construed as a guaranteed commitment to acquire any particular type of water supply.

4.4.1 Concepts for Developing CAGR D's Water Supply Portfolio

CAGR D will implement a water supply acquisition plan that includes the following general concepts:

- Develop a diversified portfolio of water supplies over the next 20 to 25 years to satisfy CAGR D's ultimate demands of 225,700 acre-feet per year (as identified in Section 4.2.1 of this Plan);
- Seek to acquire water rights only on a willing-buyer/willing-seller basis, with consideration of political and third-party implications;
- Comply with all applicable policies, rules, regulations and laws in the acquisition of water supplies;
- Secure necessary water rights after corresponding obligations are incurred (i.e., after members are actually enrolled), but at least five years before the supply is actually needed for replenishment. In the time between acquisition and use to meet replenishment obligations, CAGR D may use the acquired supplies to develop credits in its replenishment reserve account, thereby leaving more Excess CAP Water available for use by the Arizona Water Banking Authority and others;
- Proceed with a goal of acquiring approximately half of the supplies as long-term supplies, and half as short-term supplies;³³

³³ This Plan assumes that the identified short-term supplies will generate a 30-year water supply at the annual volumes listed in **Table 4.2**.

- Seek adoption of a policy by the CAWCD Board of Directors that reserves sufficient CAP wheeling capacity to transport water supplies acquired from sources on the Colorado River and in non-AMA groundwater basins. The costs of such reservation will be determined by CAWCD through its Wheeling Implementation Study and future policies;
- In response to strong sentiments expressed by its stakeholders, CAGR D will not quantify in this Plan a proposed acquisition of CAP NIA-priority water made available by the Arizona Water Settlement Agreement. However, when ADWR initiates the process for reallocating this NIA-priority water, CAGR D intends to apply for a share of it.

4.4.2 Components of CAGR D’s Water Supply Portfolio

Table 4.2 presents a general schedule of planned water supply acquisitions and usage. This general schedule is provided only as a basis for planning purposes; the actual volumes and timing listed in the schedule will be dictated by the results of negotiations and actual circumstances encountered.

TABLE 4.2
General Schedule of CAGR D Water Supply Acquisitions

Supply Description	Term	Annual Volume (AF)	Estimated Year that Usage Begins
CAP Supplies			
M&I Subcontract	Long-Term	7,746	2005
Indian Leases	Long-Term	20,000	2012
Indian Leases	Short-Term	42,500	2021
Effluent	Long-Term	10,000	2008
Effluent	Short-Term	28,000	2008
On-River Supplies	Long-Term	15,000	2015
On-River Supplies	Long-Term	25,000	2022
On-River Supplies	Short-Term	30,000	2018
Imported Groundwater	Long-Term	35,000	2027
Totals	Long-Term	112,746	--
	Short-Term	100,500	--

The remainder of CAGR D's water supply needs will be met using (1) Excess CAP Water purchased from CAWCD on an annual, as-needed basis and (2) water supplies provided by CAGR D's members themselves.³⁴ Because on-River supplies and imported groundwater are not CAP Project water, CAGR D will need wheeling capacity in the CAP system to transport these supplies to the AMAs for replenishment. Therefore, CAGR D will seek Board approval of a reservation of up to 105,000 AF of annual CAP wheeling capacity.

Figure 4.3 graphically depicts the anticipated use of water supplies acquired under this Plan to meet the projected annual replenishment obligations identified in Section 3.³⁵ It should be noted that there will be some years in which the total volume of supplies acquired by CAGR D exceeds the amount needed to satisfy the annual replenishment obligation. When this condition occurs, CAGR D will use the remaining water for establishing the Replenishment Reserve, as described in Section 5 below.

4.4.3 Projected Costs

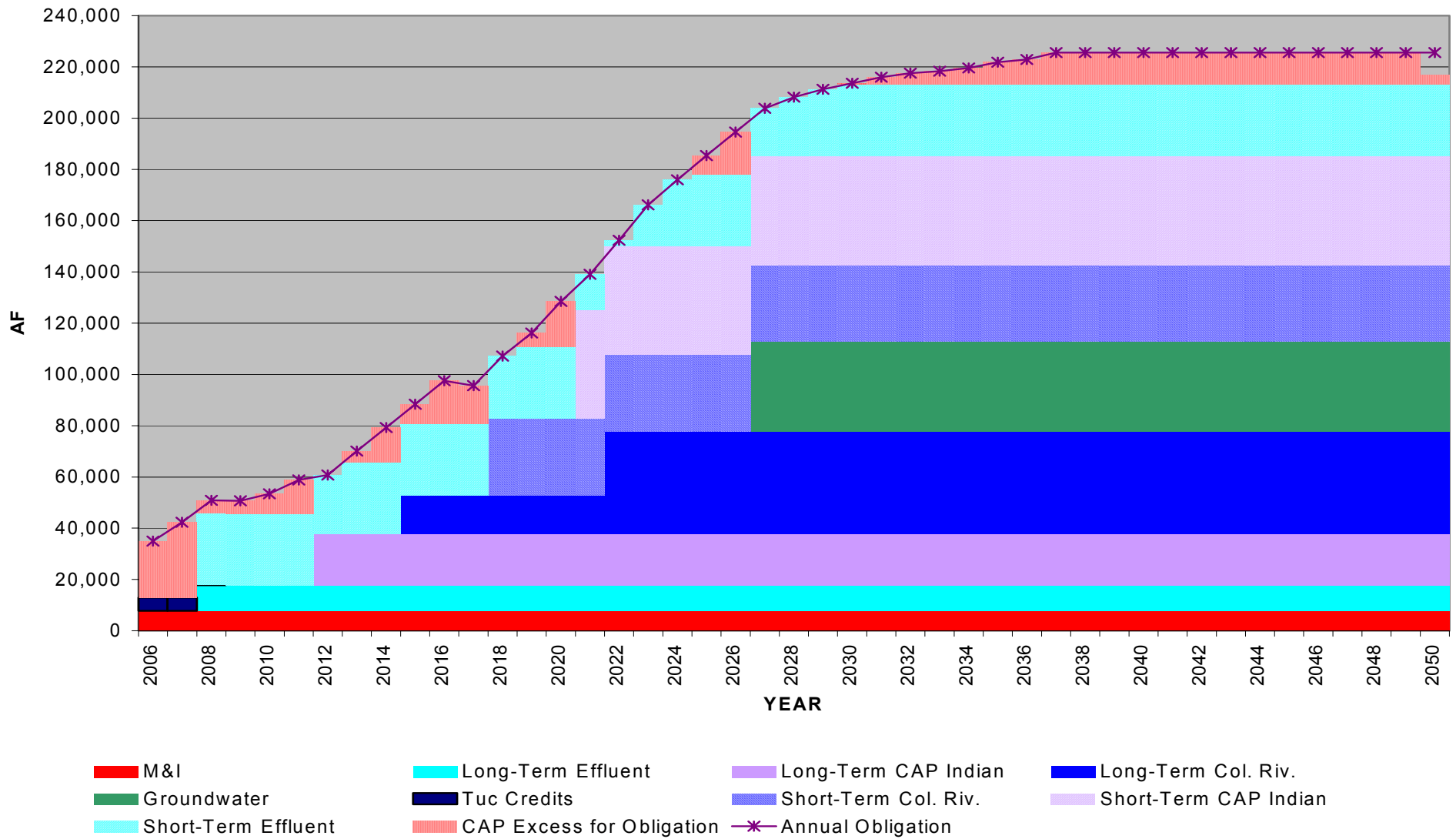
Using historic water transactions and existing market conditions as a basis, CAGR D estimates that it will have to spend more than \$260 million over the next 25 years to fund the water supply acquisition plan.³⁶

³⁴ As indicated in Section 2.5.1.3 of this Plan, a number of members have transferred credits to CAGR D to offset CAGR D's replenishment obligations. CAGR D assumes that the City of Tucson will continue this practice by transferring 5,000 AF of credits to CAGR D to offset replenishment obligations resulting from its groundwater pumping from 2004 through 2006. In addition, the City of Scottsdale is required to provide CAGR D with up to 3,460 AF of water supplies when Excess CAP water is not available. CAGR D will use these supplies to satisfy the contract replenishment obligations it incurs under Scottsdale's WAS membership.

³⁵ The annual obligations shown in Figure 4.3 represent a two-year lag from the volumes shown in Figure 3.2. The volumes in Figure 3.2 are shown for the year in which CAGR D members are projected to actually use Excess Groundwater. By statute, that use is reported to CAGR D in the subsequent calendar year. The annual obligations shown in Figure 4.3 are based on the assumption that the satisfaction of those obligations will occur in the year after the Excess Groundwater use is reported to CAGR D (i.e., two years after the Excess Groundwater is actually used).

³⁶ This figure represents only the projected costs of acquiring rights to the water supplies and developing the infrastructure necessary to make it available for use by CAGR D. Annual costs associated with taking delivery of and replenishing the water supplies are not included in this figure.

FIGURE 4.3
Projected Use of Water Supplies to Satisfy Annual Replenishment Obligations



5.0 REPLENISHMENT RESERVE

In 2003, new statutes went into effect requiring CAGR D to establish a Replenishment Reserve of long-term storage credits (see ARS, Laws 2003, Chapter 155).³⁷ The purpose for the replenishment reserve is to insure that CAGR D will always be able to meet its replenishment obligations while enhancing rate stability for its members. During future times of water supply shortage or infrastructure failure, CAGR D will be able to use credits from the replenishment reserve to meet its obligations rather than purchase water that is temporarily high-priced due to the extreme conditions.

5.1 RESERVE TARGET

The volume of credits to be stored in the replenishment reserve is known as the “Reserve Target.” The Reserve Target must be identified for each AMA based on the projected obligations and water supply acquisitions described in this Plan of Operation. The following describes the formula used in calculating the Reserve Target for each AMA:

$$\text{Reserve Target} = (\text{Obligations} - \text{Supplies}) * 20\%$$

Where:

Obligations = CAGR D’s projected groundwater replenishment obligation³⁸ at build-out for the AMA times one hundred;

Supplies = The sum of those water supplies identified in the CAGR D Plan of Operation as water that CAGR D plans to use to meet its replenishment obligations in the AMA (with the annual volume available from each supply multiplied by the number of years of availability).

CAGR D’s projected groundwater replenishment obligations for each AMA are shown in Section 3 of this Plan. Section 4 describes the water supplies that CAGR D plans to use to meet its replenishment obligations. Of the supplies identified in Section 4, only one source can be attributed to a specific AMA. That source is the CAP M&I subcontract water that CAGR D has acquired in the Phoenix AMA. The remaining sources are assumed to be distributed among all three AMAs. **Table 5.1** shows the Reserve Targets calculated for each AMA based on the new definition and a potential distribution of acquired water supplies.

³⁷ The establishment of a CAGR D replenishment reserve was recommended by the Governor’s Water Management Commission in its Final Report dated December 2001.

³⁸ Excluding the projected obligations for Category 2 Member Lands (golf courses) and obligations resulting from Water Availability Status Resolutions of the CAWCD Board (the resolution adopted for the City of Scottsdale is CAGR D’s only obligation of this type as of the writing of this Plan).

**TABLE 5.1
Reserve Targets for Each AMA**

Description	Phoenix AMA (AF)	Pinal AMA (AF)	Tucson AMA (AF)	Total All AMAs (AF)
<u>Projected Obligations:</u>				
Projected Annual Replenishment Obligations at Build-out	186,700	13,400	26,700	226,800
Annual Volume Associated with Category 2 MLs and WAS MSAs	5,100	200	1,200	6,500
Build-out Replenishment Obligation Multiplied by 100 (Excluding Category 2 MLs and WAS MSAs)	18,160,000	1,320,000	2,550,000	22,030,000
<u>Planned Supplies³⁹:</u>				
CAP M&I Subcontract (100 years)	774,600	0	0	774,600
Long-Term Indian Lease (99 years)	1,612,200	125,500	242,300	1,980,000
Short-Term Indian Lease (30 years)	1,038,200	80,800	156,000	1,275,000
Long-Term Effluent (100 years)	814,200	63,400	122,400	1,000,000
Short-Term Effluent (30 years)	684,000	53,200	102,800	840,000
Long-Term On-River (100 years)	3,257,000	253,400	489,600	4,000,000
Short-Term On-River (30 years)	732,800	57,000	110,200	900,000
<u>Imported Groundwater (100 years)</u>	<u>2,849,900</u>	<u>221,700</u>	<u>428,400</u>	<u>3,500,000</u>
Total Supplies	11,762,900	855,000	1,651,700	14,269,600
<u>Obligations Minus Supplies:</u>	6,397,100	465,000	898,300	7,760,400
	x 20%	x 20%	x 20%	x 20%
Reserve Target	1,279,400	93,000	179,700	1,552,100

The Reserve Targets identified in Table 5.1 above will remain in effect until CAGR D prepares its next Plan of Operation unless there is a significant change in (1) the projected replenishment obligations identified in Section 3 or (2) the water supply acquisition plan identified in Section 4. If CAGR D anticipates significant change in either of these conditions prior to preparation of its next Plan of Operation, the reserve targets may be adjusted with approval from the Director of ADWR. CAGR D will consult with its

³⁹ The distribution of all supplies (except the CAP M&I subcontract water) between AMAs shown in Table 5.1 is provided for illustrative purposes only. This table should not be interpreted to indicate that a particular volume and type of water supply may be used only in a particular AMA or that CAGR D will formally identify portions of each type of water supply it acquires for use in a particular AMA.

members and stakeholders prior to seeking the Director’s approval of any adjustment in an AMA’s reserve target.

5.2 HISTORIC REPLENISHMENT RESERVE ACTIVITIES

Prior to the adoption of statutes in 2003 that require CAGR D to develop a replenishment reserve, CAGR D was authorized to collect revenues from its members to perform a limited amount of replenishment in advance of incurring a replenishment obligation. This advance replenishment was limited to twenty percent of the previous year’s groundwater replenishment obligations. CAGR D began performing advance replenishment in 2001 and accrued a total of just over 6,700 AF of long-term storage credits from 2001 through 2003. In addition, the City of Tucson transferred 2,000 AF of credits directly to CAGR D in lieu of paying the advance replenishment portion of its taxes. **Table 5.2** shows when and where this advance replenishment was accomplished.

TABLE 5.2
Historic Advance Replenishment Credits Accrued by CAGR D (AF)

AMA	Location/Method	2001	2002	2003	Total
Phoenix	AFRP and HMRP Direct Recharge	956	1,239	1,656	3,851
Pinal	---	0	0	0	0
Tucson	PMRRP and LSCR P Direct Recharge	231	1,256	1,384	2,871
Tucson	Credit Transfer from City of Tucson	--	1,000	1,000	2,000
Total		1,187	3,495	4,040	8,722

All of the credits accrued historically through advance replenishment have been transferred to the corresponding replenishment reserve subaccounts created for each AMA under ARS Section 45-859.01. In addition, under a determination by the Director of ADWR under ARS § 45-896.01(C)(3), CAGR D received 287 AF of credits stored with State Water Storage Funds at the (“GRUSP”) Underground Storage Project in the mid-1990s. These credits have also been transferred to CAGR D’s replenishment reserve subaccount in the Phoenix AMA.

5.3 PLANNED REPLENISHMENT RESERVE ACTIVITIES

A key factor to consider in the development of a Replenishment Reserve program is the availability of water supplies needed to meet the Reserve Target. Use of large volumes of Excess CAP water to establish the reserve may have a negative effect on the AWBA’s

ability to meet its firming and other banking goals. Higher reliance on Excess CAP water for establishing the Replenishment Reserve would also limit CAWCD’s ability to market Excess CAP water supplies to entities other than the AWBA and CAGR. With these considerations in mind, CAGR plans to use a combination of existing long-term storage credits, Excess CAP water and other water supplies to build the replenishment reserve.

5.3.1 Use of Existing Credits

Based on a recommendation by the CAGR Stakeholder Working Group, CAGR will seek Board approval of a policy dedicating all unencumbered credits currently held by CAWCD to CAGR for purposes of establishing the replenishment reserve. Under the proposed policy, CAGR would be required to pay CAWCD for the credits when they are actually transferred and at a rate equal to the then-current rate for Excess CAP water that could otherwise be used to accrue long-term storage credits. These credits include those accrued by CAWCD in the early to mid-1990s using its own reserve funds, as well as those accrued by CAWCD in the mid-1990s using money from the State Water Storage Fund (also known as State Demonstration funds). **Table 5.3** below provides a summary of these credits.

**TABLE 5.3
Summary of Credits Currently Owned by CAWCD That Are
Proposed for Use by CAGR to Establish the Replenishment Reserve**

Description	Phoenix AMA Volume (AF)	Pinal AMA Volume (AF)	Tucson AMA Volume (AF)
CAWCD Credits Previously Dedicated to CAGR ⁴⁰	195,796	99,845	1,805
Unencumbered CAWCD Credits in Pinal AMA ⁴¹	--	210,486	--
Credits Stored by CAWCD Using State Water Storage Funds	143,045	--	--
Total Credits	338,841	310,331	1,805

⁴⁰ At their July 1, 1999, meeting, the CAWCD Board of Directors adopted a policy under which all long-term storage credits accrued by CAWCD (using its own funds) in the Phoenix and Tucson AMAs, and up to 100,000 AF of the credits currently held in the Pinal AMA, are dedicated for exclusive use by the CAGR. The policy also requires CAGR to pay CAWCD the Excess CAP water price for the credits upon transfer to CAGR. The volumes in this table reflect the fact that CAGR has purchased a small number of these credits in the Phoenix and Pinal AMAs to offset historic replenishment obligations.

⁴¹ CAWCD accrued 139,000 AF of additional credits in the Pinal AMA in the early 1990’s under interstate storage agreements with Nevada (50,000 AF) and California (89,000 AF). The credits stored for Nevada have been transferred to the AWBA. CAWCD still holds the credits stored for California.

In addition to CAWCD’s existing credits, CAGR D will also use the long-term storage credits that it already owns itself to help establish the replenishment reserve. These credits include those accrued through CAGR D’s advance replenishment program over the past three years (8,722 AF), along with credits stored in the Phoenix AMA using State Water Storage Funds that are to be used specifically for the benefit of MLs and MSAs (287 AF).⁴²

Table 5.4 summarizes the existing credits that CAGR D intends to use in the establishment of the replenishment reserve.

TABLE 5.4
Summary of Existing Credits Proposed for Use in
Establishing the Replenishment Reserve

Description	Phoenix AMA Volume (AF)	Pinal AMA Volume (AF)	Tucson AMA Volume (AF)	Total (AF)
Existing CAWCD Credits	338,841	310,331	1,805	650,977
Existing CAGR D Credits Accrued Through Advance Replenishment	3,851	--	4,871	8,722
Existing CAGR D Credits Stored Using State Water Storage Funds	287	--	--	287
Total Credits	342,979	310,331	6,676	659,986

When the totals shown in Table 5.4 are compared with the Reserve Targets calculated in Table 5.1, it is clear that use of the existing credits will significantly reduce the need for CAGR D to purchase other water supplies to meet its replenishment reserve requirements. In fact, the total of the existing credits represents 42.5% of the total reserve targets for all three AMAs. However, an apparent concern is the fact that the volume of existing credits in the Pinal AMA exceeds that AMA’s reserve target by more than 217,000 AF. This leads to two conclusions:

⁴² By letter, dated June 28, 1996, the Director of ADWR determined that 0.2% of the credits accrued prior to July 1, 1996, using State Water Storage funds were to be used for the benefit of MLs and MSAs. This determination was made in accordance with ARS § 45-896.01.C.3.

1. There is no need to purchase and store additional water supplies in the Pinal AMA for the purpose of building that AMA’s replenishment reserve; and
2. Use of credits that exist in the Pinal AMA to build the replenishment reserve in the Phoenix and Tucson AMAs will require (a) recovery of the credits from Pinal AMA and replenishment in the other AMAs and/or (b) implementation of one or more exchange agreements.⁴³

CAGR D assumes that it will be able to implement a program for recovery and/or exchange of the “surplus” Pinal AMA credits in order to build the replenishment reserves in the Phoenix and Tucson AMAs. Such programs will also likely need to be implemented to recover credits stored by the AWBA in that AMA. Therefore, CAGR D will plan to initiate and/or participate in the development of such programs.

5.3.2 Use of Extra Water in CAGR D’s Planned Water Supply Portfolio

Table 4.2 of this Plan describes the portfolio of water supplies that CAGR D plans to acquire to meet its replenishment obligations. Acquisition of the supplies on the general schedule shown in **Table 4.2** will result in some “extra” supplies that will not be needed to meet replenishment obligations in the year in which they are acquired. Such extra water will be used to build the replenishment reserves in the Phoenix and Tucson AMAs. An analysis of the planned portfolio volumes and schedule indicate that approximately 80,000 AF of such supplies will be available.

5.3.3 Use of Excess CAP Water

Figure 4.2 of this Plan shows the projected volume of Excess CAP water supplies available to the AWBA, CAGR D and others. CAGR D plans to use part of these supplies to establish the replenishment reserve in the Phoenix and Tucson AMAs. The total volume of Excess CAP water needed is estimated in the following calculation:

Total Reserve Target for All AMAs (Table 5.1)	1,552,100 AF
Total Existing Credits (Table 5.4)	- 660,000 AF
Total “Portfolio” Water (Section 4.4.2)	- 80,000 AF
<u>Total Supplies Needed to Offset Recharge Losses⁴⁴</u>	<u>+ 9,000 AF</u>
Total Excess CAP Water Needed	821,100 AF

⁴³ Exchange agreements could involve other Pinal AMA entities that have entitlements to CAP water. Under such agreements, existing credits in Pinal AMA could be recovered and delivered to the CAP entitlement holder and the “exchanged” CAP water could be stored in the Phoenix or Tucson AMAs to accrue credits in the replenishment reserve. Another possibility is that CAGR D could effect an “exchange” with itself. Under this scenario, CAGR D could use existing Pinal AMA credits to offset its Pinal AMA replenishment obligation in a given year, and the surface water that CAGR D would have otherwise transported to and replenished in the Pinal AMA could be replenished in the Phoenix or Tucson AMAs to accrue credits in the replenishment reserve.

⁴⁴ Based on an assumed loss factor of 1%.

5.3.4 Summary of Planned Replenishment Reserve Activities

The sections above describe the volumes and types of supplies that will be used to establish CAGRDR replenishment reserves. Use of the “surplus” Pinal AMA credits, the extra “portfolio” supplies, and Excess CAP water will be prorated between the Phoenix and Tucson AMAs, as shown in **Table 5.5** below.

**TABLE 5.5
Summary of Supplies to Be Used for Replenishment Reserve Activities**

Description	Phoenix AMA Volume (AF)	Pinal AMA Volume (AF)	Tucson AMA Volume (AF)	Total (AF)
Existing CAWCD Credits Stored in Phoenix AMA	338,841	--	--	338,841
Existing CAWCD Credits Stored in Pinal AMA	183,437	93,000	33,894	310,331
Existing CAWCD Credits Stored in Tucson AMA	--	--	1,805	1,805
Existing CAGRDR Credits	4,138	--	4,871	9,009
Extra CAGRDR Portfolio Supplies	67,524	--	12,476	80,000
Excess CAP Water	693,045	--	128,055	821,100
Total*	1,286,985	93,000	181,101	1,561,086

* Note: These volumes differ from the reserve targets in the Phoenix and Tucson AMAs because of the need to purchase additional water to cover recharge losses.

Figure 5.1 below graphically depicts CAGRDR’s plan for establishing the replenishment reserve. This figure shows that CAGRDR plans to purchase significant quantities of existing credits from CAWCD for the Phoenix and Tucson AMA replenishment reserves during the period when Excess CAP supplies are limited (i.e., 2020 through 2030). The figure also shows that credits will continue to be purchased after 2030, and that existing credits in Pinal AMA will be purchased each year, beginning in 2005, to build the Pinal AMA replenishment reserve. The data used to develop Figure 5.1 is provided in **Table E-3** in Appendix E.

Figure 5.2 below summarizes CAGRDR’s total water supply use plan. This figure shows the projected annual replenishment obligations, the projected water supplies to be used in meeting annual replenishment obligations and the supplies to be used in establishing the replenishment reserve. This figure combines the information provided in Figures 5.2 and 4.3.

FIGURE 5.1
Planned Purchases for the Replenishment Reserve

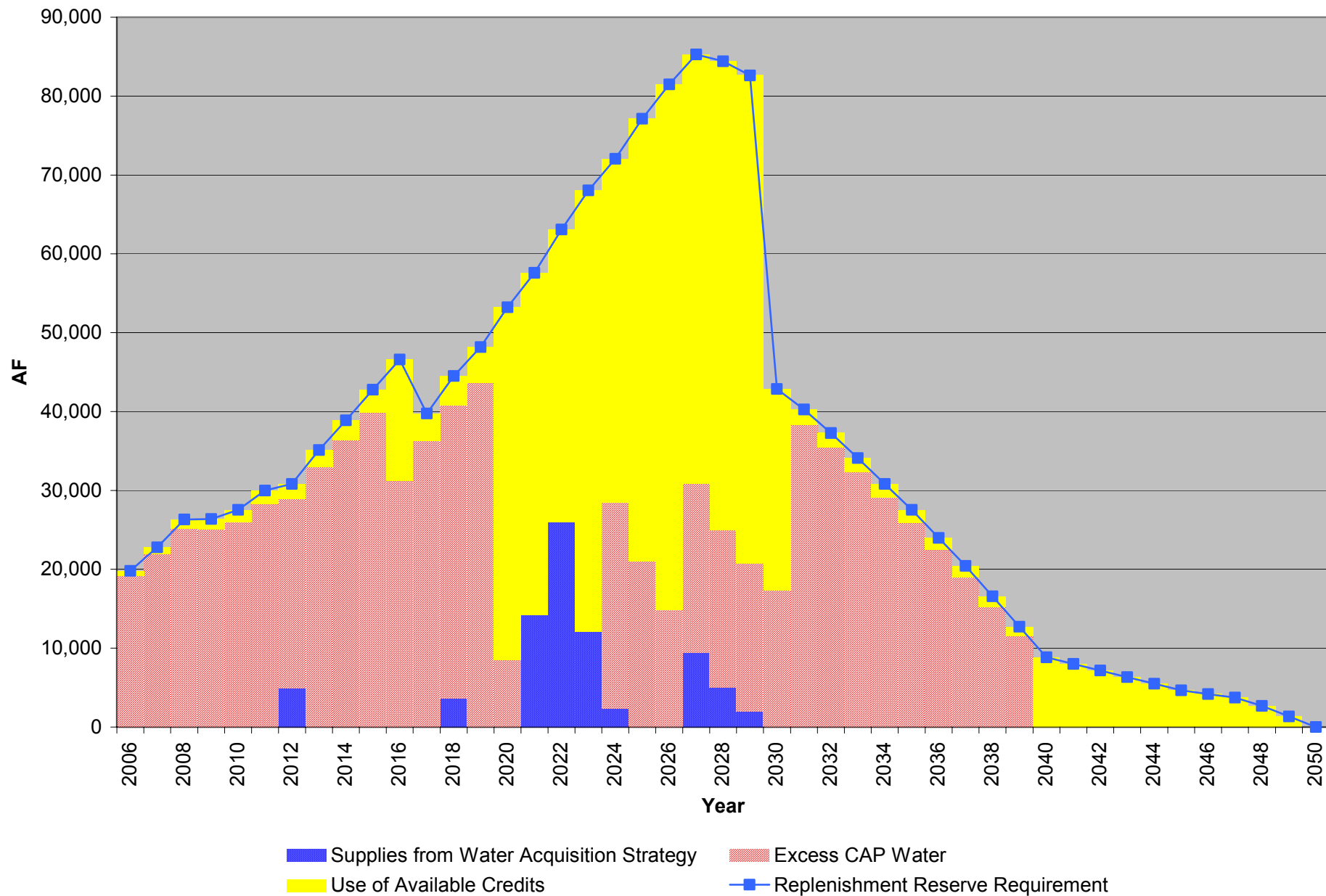
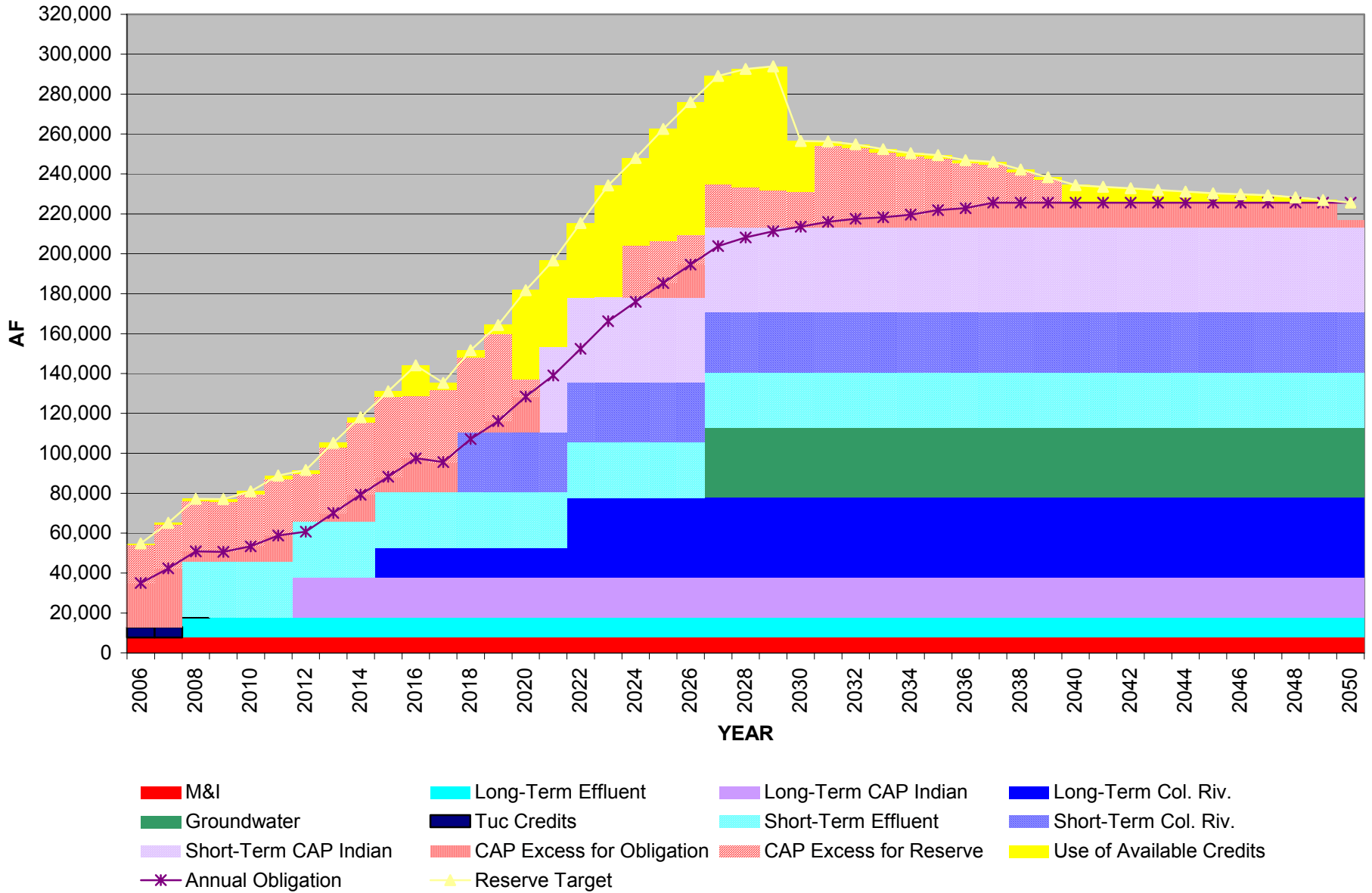


FIGURE 5.2
Summary of Water Supplies Planned for Use by CAGR



6.0 FACILITIES PLANNED FOR USE

6.1 TRANSPORTATION FACILITIES

6.1.1 CAP Delivery Capacity

The total amount of CAP canal delivery capacity is approximately 1,800,000 AF per year. This volume is based on technical studies conducted by CAP staff and consultants, completed in 2002. Current estimates show the CAP system can safely divert and deliver 1,800,000 AF per year, which is about 300,000 AF above the roughly 1,500,000 AF currently estimated to be available for long-term contracting and allocation. The remaining 300,000 AF per year of canal capacity is termed “excess” canal capacity and discussed in the wheeling section below.

The estimate of 1,800,000 AF of delivery capacity is based on the following assumptions:

- The total water diverted from the Colorado River into the CAP system in a “normal” water year for CAP “project” purposes is 1,500,000 AF, of which 75,000 AF are attributable to canal and reservoir losses (25,000 AF canal losses and 50,000 AF Lake Pleasant losses). Thus, an additional 300,000 AF of “non-project” water can be delivered into the CAP system at locations along the CAP system west of Lake Pleasant, including pumping additional Colorado River water.
- All of the water (1,800,000 AF) can be moved within the current canal lining. It is assumed that potential future impacts from aquatic pests, such as mussels, clams, snails, and algae are mitigated. The western end of the CAP has a design flow of 3000 cubic feet per second (“cfs”). CAP routinely moves 3100 cfs from Mark Wilmer Pumping Plant on Lake Havasu to the Waddell Pumping Plant at Lake Pleasant, and 3300 cfs from the Waddell Pumping Plant to Cave Creek Road in north Phoenix.
- CAP maintenance schedules will be modified to accommodate expanded delivery schedules.

6.1.2 Wheeling Non-Project Water Through CAP Facilities

In December 2002, the CAWCD Board adopted the “Policy for Use of Excess Canal Capacity” which establishes a framework for future use of excess canal capacity by CAWCD and its customers. The policy considers that up to 300,000 AF per year of canal capacity is available for delivery of non-project water through the CAP system (see above).⁴⁵ Of the 300,000 AF per year of available canal capacity, the CAWCD Board approved “interim reservations” totaling 78,000 AF per year to meet potential future

⁴⁵ Transportation of non-project water through the CAP system must comply with all applicable laws, rules, regulations, and contractual provisions.

development and delivery of non-project water from “water ranches” purchased prior to 2002. The interim reservations were made for the cities of Phoenix, Mesa, and Scottsdale. Water supply development constraints and operational regimes may reduce the actual canal capacity needed to deliver those water supplies, when those supplies are actually developed and delivered through the CAP system.

In addition, the policy makes specific reference to providing excess canal capacity to deliver water to meet CAGRDR’s replenishment obligations. The policy specifically states:

1. Interim Set Asides of Canal Capacity for Wheeling non-Project Water

- d. The Board sets aside an amount up to 3,460 acre-feet per year of excess canal capacity for the CAGRDR to wheel City of Scottsdale’s Harquahala groundwater.*
- e. The Board sets aside an amount of excess canal capacity for use by the CAGRDR to meet a portion of its current and committed replenishment obligation (the “Obligation”) as outlined below.*
 - i. The request shall be limited to the estimated existing and committed replenishment obligation as of July 1, 2003 as determined pursuant to A.R.S. 45-576.02.C, the CAGRDR’s ten-year Plan of Operation, to be prepared no later than January 1, 2004.*
 - ii. The request shall be limited to that portion of the Obligation requiring the use of non-Project supplies after considering all other supplies reasonably available to the CAGRDR including the development of the replenishment reserve recommended by the Governor’s Water Management Commission.*
 - iii. The staff of the CAGRDR shall develop its ten-year Plan of Operation within the context of a thorough public participation process.*

In summary, current CAWCD policy reserves sufficient available excess canal capacity for use by CAGRDR to deliver non-project water to meet a portion of replenishment obligations and replenishment reserve as defined in this Plan. The portion of the replenishment obligation and replenishment reserve requirements met by non-project supplies wheeled through the CAP system considers all other supplies reasonably available to CAWCD to meet the obligations of CAGRDR members.

This Plan identifies non-project water supplies that will require wheeling through the CAP canal system. These supplies include: Colorado River supplies (long and short-term arrangements) and imported groundwater supplies. For the period 2006 – 2025, the Plan identifies a need for up to 70,000 AF per year of canal capacity to deliver non-project supplies for the CAGRDR’s purposes. For the period 2026 – 2105, the Plan identifies a need for up to 105,000 AF per year of canal capacity to wheel non-project supplies for CAGRDR purposes.

6.1.3 Transportation Facilities for WAS Members

The City of Scottsdale is a WAS Member of CAGR D for up to 3,460 AF per year of replenishment obligations. Current water supply estimates suggest Excess CAP water is available to meet the replenishment obligations of Scottsdale’s WAS membership for the next 15 years. The Excess CAP water is delivered within the existing 1,500,000 AF of “normal” year delivery capacity of the CAP canal system (see above). Scottsdale has pledged 3,460 AF per year of groundwater rights from property located in the Harquahala Irrigation Non-expansion Area as available for replenishment when Excess CAP water is unavailable. The current CAWCD wheeling policy (December 2002, see above) reserves sufficient CAP canal capacity for use to deliver non-project water to meet CAGR D’s replenishment obligations for Scottsdale’s WAS membership.

6.2 REPLENISHMENT FACILITIES

Current CAWCD policy guides the selection and use of storage facilities used by CAGR D to meet the replenishment obligations of its members. The current policy states that CAGR D will accomplish replenishment by storing at facilities that are hydrologically sound and that are either generally located as close to member pumping as possible or located in areas that provide water management benefits to the AMA. In general, the CAWCD State Demonstration recharge facilities in the Phoenix and Tucson AMAs meet these criteria, as do storage facilities owned and operated by other entities. The selection, development and use of new facilities in the future will consider the projected location of future membership and water management objectives as well as the standard hydrologic, economic, and land ownership analyses.

6.2.1 Description of Existing Replenishment Facilities

CAGR D is required to demonstrate in its Plan of Operation that sufficient capacity is available at Underground Storage Facilities (“USF”) and Groundwater Savings Facilities (“GSF”) to meet CAGR D’s projected replenishment obligations. Existing statutes require CAGR D to replenish within the AMA in which obligations are incurred. Consistent with current CAWCD policy, CAGR D attempts to replenish within the same sub-basin in which obligations are incurred whenever possible.

CAGR D compiled an inventory of recharge facilities in the Phoenix, Pinal and Tucson AMAs available to store CAP water to meet its replenishment needs. The inventory identified permitted recharge facilities as of December 2003, the most recent data available from ADWR. In addition, the inventory identified storage facilities planned for development in the future. The planned facilities were identified from interviews with CAP M&I subcontractors, Salt River Project staff, developers, and consultants.

The recharge facility inventory identified 41 recharge facilities operating or planned for development available to store water for CAGR D. To qualify for inclusion in the inventory, a storage facility was required to be permitted to store CAP water or planned to store CAP water. The purpose for establishing the CAP water storage criteria is that

the majority of storage in the next twenty years is planned to be Excess CAP water. For the purposes of this analysis, it was assumed that storage of effluent by CAGRDR for replenishment purposes would require that the owner of the effluent provide appropriate storage capacity. Therefore, the inventory did not consider all effluent storage facilities in the CAP service area.

The inventory identified thirty operating storage facilities available to CAGRDR in the CAWCD service area: nineteen in the Phoenix AMA, three in the Pinal AMA, and eight in the Tucson AMA. Of these, fourteen are GSFs: seven in the Phoenix AMA, three in the Pinal AMA, and four in the Tucson AMA. The remaining sixteen storage facilities are USFs: twelve in the Phoenix AMA, zero in the Pinal AMA, and four in the Tucson AMA. The inventory identified eleven potential future storage facilities. Seven USFs are planned for development in the Phoenix AMA and two are planned for development in the Tucson AMA. In addition, two GSFs are planned for development in the Tucson AMA.

For each operating recharge facility, the operational storage capacity, historic use by non-CAGRDR users, and location within the AMA was compiled. The capacity available for use by CAGRDR was calculated by subtracting the use by non-CAGRDR users from the operational storage capacity. The remaining capacity was assumed to be available for use by CAGRDR. It should be noted that the operational storage capacity of a facility is often less than the permitted capacity due to recharge operational constraints, water availability and costs, and uncertainties inherent in the permitting process.

The operational capacity is defined as the maximum storage within the most recent five years of operation or recent water order, whichever is greater. The selection of the most recent five years of storage history better reflects the potential variations in storage capacity due a number of factors. For GSFs, the operational capacity may fluctuate in response to the number of acres in production and the cost and availability of alternative water supplies. For USFs, the operational capacity may vary due to maintenance practices, water availability, aquifer storage capacity, and adjacent land and water uses. The storage capacity available to CAGRDR will change over time due to the completion of additional CAP recharge facilities, reduction of GSF storage capacity due to urbanization, and the assumed reduction in AWBA storage by 2020.

For planned storage facilities, including those facilities that have been permitted but are not presently operational, the planned storage was used as the operational capacity. The planned storage use by non-CAGRDR users was determined from discussions with the facility planners. The storage capacity available to the CAGRDR for planned storage facilities was calculated by subtracting the planned storage by non-CAGRDR users from the planned operational capacity.

The MAG provided analyses of the potential reduction in cropped acreage due to urbanization from 2005 - 2035. The analysis suggests that urbanization will substantially curtail cropped acreage in Phoenix AMA. Minor curtailment of cropped acreage will occur in the Pinal and Tucson AMAs over the same period. The result is that GSF

storage capacity will be reduced in the Phoenix AMA, and reduce slightly in the Pinal and Tucson AMAs.

To estimate the storage capacity available to CAGR, it is necessary to estimate reservation of storage capacity for other users at each storage facility. For CAP storage facilities, existing commitments for storage capacity were evaluated. It is assumed that CAGR has a higher priority to store water at CAWCD storage facilities for purposes of satisfying its replenishment obligations than the AWBA.⁴⁶ However, for purposes of this analysis, it was assumed that the AWBA has a higher priority for use of GSF capacity than CAGR, consistent with historic practices. It is assumed that the AWBA will meet its storage needs between 2015 and 2020, thereby freeing up storage capacity for use by CAGR. For non-CAP USFs, the commitment to store for other customers was investigated for each facility. For example, at the GRUSP, the Salt River Project has a long-term commitment to provide storage for GRUSP partners and the AWBA, leaving no capacity available for CAGR’s use on a consistent basis.

In summary, sufficient storage capacity is available to meet replenishment and reserve storage requirements for the next twenty years (see **Table 6.1** below). In addition, with the development of new storage facilities planned in the future, it appears that sufficient capacity will remain available for use by CAGR to meet its storage requirements for the next 100 years. The results of the inventory of all storage facilities available for use by CAGR, both planned and operational, are shown in **Table F-1** in Appendix F.

TABLE 6.1
Summary of Replenishment Facility Capacity Available to CAGR (AF)

YEAR	2004	2010	2015	2020	2025	2030	2035
Replenishment Facility Capacity	298,000	413,000	391,000	519,000	502,000	490,000	482,000

Assumes capacity remains stable after 2035

6.2.2 Summary of Potential Future Storage Facilities

The inventory identified eleven recharge facilities in the planning stages that may be available to CAGR at some point in the next 20 years. Of the eleven, seven will be located in the Phoenix AMA and four will be developed in the Tucson AMA. Nine of the possible future projects will be USFs. In the Phoenix AMA, two of the projects are being developed by CAWCD: the Tonopah Desert Recharge Project and the Superstition Mountains Recharge Project. The other projects in the Phoenix AMA are: Douglas Ranch Recharge (by developers), White Tanks Recharge (by the City of Goodyear), Agua Fria Linear Recharge and Cave Creek Recharge (by the City of Phoenix), and New

⁴⁶ CAGR storage for establishing and maintaining the replenishment reserve shares the same priority as AWBA storage for M&I firming, ARS § 48-3772.E.6.

River-Agua Fria USF (by SRP). In the Tucson AMA, one project, Clearwater Aquifer Storage and Recovery Project - Expansion is under development by the City of Tucson, while the other project, Canada Del Oro Project, does not have an owner identified. In addition, there are two GSF projects that could potentially be developed in the future in the Tucson AMA: FICO and Kai Farms – AVID.

Regarding the two recharge projects under development by CAWCD in the Phoenix AMA, the Tonopah Desert Recharge Project is currently under construction and will be storing water in late 2005. The facility is located in the Hassayampa Sub-basin of the Phoenix AMA. The facility is permitted to store 2,000,000 AF over a twenty-year permit life. The Superstition Mountain Recharge Project is located in the southeastern portion of the Phoenix AMA in the vicinity of Queen Creek. This project is in the preliminary design and permitting stage. The project is anticipated to be available for storage in 2008. Preliminary investigations suggest that, at a minimum, the potential storage capacity at the site is greater than 600,000 AF over a twenty-year permit life.

The other recharge projects are at various stages in planning and development. The Agua Fria Linear Recharge Project, Cave Creek Recharge, Clearwater Expansion, and New River-Agua Fria USF are estimated to be available for storage after 2008. The Douglas Ranch and White Tanks Recharge projects are estimated to be available for storage after 2010. Information regarding the potential capacity or development schedule for the three remaining potential future recharge projects are not available at this time. The estimated storage capacities available for use by CAGR, as well as the location and development status of each facility, are identified in **Table F-1**.

7.0 FUNDING MECHANISMS

Statutes require that all operations of the CAGR D be funded completely by its members. The statutes authorize CAWCD to advance funds to the CAGR D to help cover necessary expenses. However, all advances from CAWCD must be fully repaid with interest at a rate determined by the CAWCD Board of Directors. CAGR D generates revenues from its members through various fees, assessments and taxes, as described in this section.

7.1 FEES

CAGR D collects three different fees from its members: an enrollment fee, an activation fee and a replenishment reserve fee. Each of these fees is described below.

7.1.1 Enrollment Fees

The enrollment fee must be paid when an applicant submits an application to enroll a Member Land subdivision or Member Service Area into the CAGR D. The fee is paid directly to CAGR D.

7.1.1.1 Enrollment Fee for Member Lands

The enrollment fee is established based on the number of housing units in the Member Land. On May 6, 2004, the CAGR D Board of Directors adopted a policy entitled “CAGR D Enrollment Fee and Activation Fee Policy.” The policy describes how the Member Land enrollment fee is established. A copy of this policy is included in **Appendix G** of this Plan. According to the policy, revenues generated by the Member Land enrollment fee, along with other fees and rates discussed below, are to be used for purchasing water rights and developing infrastructure necessary for CAGR D to meet its replenishment obligations.

7.1.1.2 Enrollment Fee for Member Service Areas

The Member Service Area enrollment fee is set at a minimum of \$5,000 and is to be used to cover the administrative costs of processing the specific enrollment application. If the administrative costs of processing the application exceed \$5,000, then the applicant is required to pay such additional costs to CAGR D as part of that member’s enrollment fee.

7.1.2 Activation Fee

The activation fee must be paid for all subdivisions⁴⁷ within CAGR D Member Lands and Member Service Areas before the Arizona Department of Real Estate will issue a public report allowing the sale of parcels within the subdivision. The CAGR D Enrollment Fee and Activation Fee Policy (see **Appendix G**) describes how the activation fee is

⁴⁷ As of May 6, 2004 (the date that the CAGR D Enrollment Fee and Activation Fee Policy became effective), all membership enrollment documents will include provisions requiring payment of the Activation Fees according to the policy. Before May 6, 2004, enrollment documents did not contain such provisions. Therefore, legislation will be introduced in 2005 to provide CAGR D with the necessary authority to collect the Activation Fees from subdivisions within MLs and MSAs that were enrolled before May 6, 2004, but had not yet received a Public Report from the Department of Real Estate.

established. According to the policy, revenues generated by the activation fee, along with other fees and rates discussed in this section, are to be used for purchasing water rights and developing infrastructure necessary for CAGR D to meet its replenishment obligations. The activation fee is paid directly to CAGR D.

7.1.3 Replenishment Reserve Fee

The district must levy a replenishment reserve fee against category 1 member lands and against member service areas (ARS § 48-3772.E.). Revenues generated from the replenishment reserve fee are to be used to accrue long-term storage credits for use in establishing and maintaining the replenishment reserve in the AMA where the fee was levied.

7.1.3.1 Replenishment Reserve Fee for Member Lands

For category 1 (non-golf course) MLs that enroll in the CAGR D on or after January 1, 2004, a replenishment reserve fee must be paid to CAGR D before the Arizona Department of Real Estate will issue a public report for each final plat within the ML (ARS § 45-576.C). The fee is equal to twice the applicable replenishment reserve charge (described in section 7.2.3.1) multiplied by the total projected average annual replenishment obligation for the subdivision. For MLs that enrolled in the CAGR D prior to January 1, 2004, there is no requirement to pay the replenishment reserve fee.

7.1.3.2 Replenishment Reserve Fee for Member Service Areas

For MSAs that enroll in the CAGR D on or after January 1, 2004, the municipal water provider serving the MSA must pay an annual replenishment reserve fee to CAGR D. In addition, an annual replenishment reserve fee must also be paid to CAGR D if any municipal water provider with a member service area, regardless of its enrollment date, modifies its DAWS in a manner that increases CAGR D's projected annual replenishment obligation. The fee is equal to twice the applicable replenishment reserve charge (described in sub-section 7.2.2.4) multiplied by the excess groundwater increment reported by the MSA's municipal water provider each year.⁴⁸ CAGR D cannot levy a replenishment reserve fee for replenishment activities performed under a Water Availability Status resolution.

7.2 ASSESSMENTS/TAXES

7.2.1 Annual Rate Setting Process

The CAWCD Board of Directors is required by law to establish and levy an annual replenishment assessment against MLs and an annual replenishment tax against MSAs. This replenishment assessment/tax must be levied on or before the third Monday in August of each year and must be levied separately for each AMA in an amount sufficient to cover the costs and expenses of replenishing groundwater for CAGR D members. The assessment must be levied at a per-acre-foot rate. On June 17, 2004, the Board adopted

⁴⁸ "Excess groundwater increment" means the amount by which excess groundwater reported for a member service area under ARS § 48-3775.B in any year exceeds the maximum amount of excess groundwater reported for that member service area in any prior year.

the current “CAGR D Assessment Rate Setting Policy,” which describes the methods and schedule to be used in establishing annual rates. A copy of this policy is included in **Appendix G**.

7.2.2 Rate Components

Under the CAGR D Assessment Rate Setting Policy, CAGR D establishes four separate rate components, which are briefly described below. Each component is more fully described in the policy included in **Appendix G**.

7.2.2.1 Water and Replenishment Rate Component

This component is computed separately for each AMA and is based on the cost to purchase and replenish adequate water supplies to meet CAGR D replenishment obligations in the particular AMA.

7.2.2.2 Administrative Rate Component

CAGR D establishes a single administrative component that is in effect for all three AMAs. This component covers the costs of administering the CAGR D, including repayment of CAWCD fund advances that were used for administration.

7.2.2.3 Infrastructure and Water Rights Rate Component

This component is computed separately for each AMA and is based on the costs of securing rights to water supplies and development of infrastructure needed by CAGR D to meet its replenishment obligations in the particular AMA.

7.2.2.4 Replenishment Reserve Charge

This component is computed separately for each AMA based on CAGR D’s statutory requirement to establish and maintain a replenishment reserve of long-term storage credits in each AMA. By law, this component cannot be levied against Category 2 MLs (golf courses) or WAS Members. In addition, statutes limit the length of time that this component may be collected from each member based on that member’s date of enrollment, ARS §§ 48-3774.01, 48-3780.01. For those members that enrolled in CAGR D on or after January 1, 2004, CAGR D may only levy this charge for a total of 23 years. For members that enrolled prior to January 1, 2004, and did not pay a Replenishment Reserve Fee as described in Section 7.1.3, this charge may be assessed for 25 years.

7.2.3 Collection of Assessments/Taxes

Collection of CAGR D’s annual assessments and taxes is a fairly long and complex process. By March 31st of each year, municipal water providers that serve MLs and MSAs must submit annual reports to CAGR D that indicate the volume of Excess Groundwater delivered to each ML parcel and each MSA service area during the previous calendar year. When all municipal provider reports for the entire AMA have been filed, CAGR D determines its total replenishment obligation for that AMA. CAGR D then computes the total projected cost to satisfy this replenishment obligation. This total cost is prorated among all of the members of the CAGR D in the AMA based on the volume of Excess Groundwater used by each member, and is the basis for

establishing the Water and Replenishment Rate Component described in Section 7.2.2.1 above.

Once the Board establishes assessment rates each year as described above, reports are prepared and sent to each county in which MLs are located (Maricopa, Pinal and Pima). The reports identify the amount to be levied against each ML parcel located in the respective county. The counties add the assessments to each parcel's property tax bill and collect them along with the property taxes. The county transfers the collected assessments to CAGRDR for use in meeting its replenishment obligations.

Collection of replenishment taxes from MSAs occurs through direct invoicing. Once the CAGRDR rates are established, an invoice is sent to each municipal provider that serves a CAGRDR MSA. The municipal provider is required by law to pay the replenishment tax directly to CAGRDR by October 15 of each year.

7.2.4 Contract Replenishment Taxes

The process for assessing and collecting Contract Replenishment Taxes differs from other CAGRDR taxes. Contract replenishment is performed for a specific MSA under a special contract. The terms of the contract can provide for the use of specific water supplies and/or replenishment facilities in satisfying contract replenishment obligations. Therefore, all costs associated with contract replenishment are borne by the MSA water provider that executes the contract. Collection of contract replenishment taxes occurs through direct invoicing by CAGRDR.

7.3 CAGRDR'S FINANCIAL CAPABILITY

Statutes require that all of CAGRDR's costs must be paid by its members. Statutes also provide CAGRDR with the authority and responsibility to establish and collect all fees, assessments and taxes necessary to meet its statutory obligations. CAGRDR's Board of Directors has adopted policies for establishing its fees and rates on an annual basis, thus providing CAGRDR with flexibility as economic and operational conditions change. Therefore, all mechanisms are in place to ensure that CAGRDR will always be able to meet its statutory obligations using funds collected exclusively from its members.

8.0 CONCLUSION

This Plan of Operation has been developed using a process that included detailed analyses and extensive stakeholder input. It provides CAGR D with a guide under which operations can proceed during the next ten years and beyond. It has been designed to provide enough detail to instill confidence that CAGR D will be able to meet all of its obligations. At the same time, the Plan is intentionally flexible to allow CAGR D to react appropriately to conditions encountered as it moves forward in the development of a water supply portfolio and a replenishment reserve of long-term storage credits.

Statutes require that if conditions change significantly over the next ten years from those projected in this Plan, CAGR D will be required to modify the related portion(s) of the Plan. The conditions of primary concern are the projected groundwater replenishment obligations and the availability of water supplies to CAGR D. CAGR D will continuously monitor these, and other, conditions and provide reports to its Board of Directors at least once per year. In addition, CAGR D will continue to work closely with its Stakeholder Working Group as the Plan is implemented. CAGR D will meet with its working group no less than once per year to provide status updates and seek input on operational activities.

APPENDIX A

LIST OF ABBREVIATIONS

<u>Abbreviation</u>	<u>Description</u>
AF	Acre-feet
AF/Yr	Acre-feet per year
AFRP	Agua Fria Recharge Project
AMA	Active Management Area
ARS	Arizona Revised Statutes
AVRP	Avra Valley Recharge Project
AWBA	Arizona Water Banking Authority
AWS	Assured Water Supply
ADWR	Arizona Department of Water Resources
CAP	Central Arizona Project
CAWCD	Central Arizona Water Conservation District
CAWS	Certificate of Assured Water Supply
CAGRD	Central Arizona Groundwater Replenishment District
cfs	Cubic feet per second
DAWS	Designation of Assured Water Supply
GIS	Geographical Information System
gpcd	Gallons per capita per day
GSF	Groundwater Savings Facility
HMRP	Hieroglyphic Mountains Recharge Project
LSCR	Lower Santa Cruz Recharge Project
MAF	Million Acre-feet
MAG	Maricopa Association of Governments
MAGIC	Maricopa Association of Governments Information Center
M&I	Municipal and Industrial
ML	Member Land
MSA	Member Service Area
PAG	Pima Association of Governments
Plan	The 2004 CAGRD Plan of Operation
PMRRP	Pima Mine Road Recharge Project
QCGSF	Queen Creek Irrigation District Groundwater Savings Facility
USF	Underground Storage Facility
WAS Member	An MSA that has been granted water availability status by CAWCD
WSA Act	Water Sufficiency and Availability Act of 1999

APPENDIX B

DATA TABLES AND FIGURES REGARDING HISTORIC OPERATIONS

Table B-1 - Phoenix AMA Member Lands (Enrollment Through 2003)

Table B-2 - Pinal AMA Member Lands (Enrollment Through 2003)

Table B-3 - Tucson AMA Member Lands (Enrollment Through 2003)

Table B-4 - Historic Parcel Replenishment Obligations – West Portion of Phx AMA

Table B-5 - Historic Parcel Replenishment Obligations – East Portion of Phx AMA

Table B-6 - Historic Parcel Replenishment Obligations – Pinal AMA

Table B-7 - Historic Parcel Replenishment Obligations – Tucson AMA

Table B-8 - Historic Service Area Replenishment Obligations

Figure B-1 - Scottsdale WAS Replenishment Area

Figure B-2 - Location of CAWCD State Demonstration Recharge Facilities

**TABLE B-1
Phoenix AMA Member Lands
(Enrollment Through 2003)**

CAGR Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrlmt Year	No. of Lots
17-14-001	Villa Rica Subdivision	City of Tolleson	27-300032	Mar	WPhx	1995	132
02-14-002	Ranchos Hacienda De Caballos, 1	Queen Creek Water Company	27-300014	Mar	EPhx	1995	16
06-14-003	Estates North, Unit II	Desert Hills Water Company	27-300074	Mar	EPhx	1996	23
02-14-006	Circle G at Queen Creek, Unit I	Queen Creek Water Company	27-300057	Mar	EPhx	1996	40
01-14-007	Meridian Hills	Arizona Water Company	27-300078	Mar	EPhx	1996	451
02-14-008	Crismon Ranch Estates	Queen Creek Water Company	27-300073	Mar	EPhx	1996	19
06-14-011	Apache Peak Ranch	Desert Hills Water Company	27-300034	Mar	EPhx	1996	28
02-14-012	Ranchos Hacienda De Caballos, 2	Queen Creek Water Company	27-300062	Mar	EPhx	1996	8
01-15-014	Superstition Highlands	Arizona Water Company	27-300102	Pinal	EPhx	1996	104
18-14-015	Fox Hill Run	City of El Mirage	27-300103	Mar	WPhx	1996	100
04-14-016	Lincoln at Tatum Subdivision	Arizona-American Water Company (PVWC)	27-300063	Mar	EPhx	1996	7
01-15-017	Gold Canyon East	Arizona Water Company	27-300119	Pinal	EPhx	1996	123
18-14-018	5th Ave. Subdivision	City of El Mirage	27-300125	Mar	WPhx	1996	30
04-14-019	Lincoln Place	Arizona-American Water Company (PVWC)	27-300112	Mar	EPhx	1996	56
03-14-020	Arizona Traditions I	Arizona-American Water Company	27-300100	Mar	WPhx	1996	26
01-15-021	Mountainbrook Village Parcel II	Arizona Water Company	27-300099	Pinal	EPhx	1996	106
16-14-025	Mountain Vista Ranch Parcel 6	City of Surprise	27-300137	Mar	WPhx	1996	266
01-15-026	Renaissance Point, Prcl. 1, Phs. 1	Arizona Water Company	27-300108	Pinal	EPhx	1996	76
01-15-027	Renaissance Point, Prcl. 1, Phs. 2	Arizona Water Company	27-300145	Pinal	EPhx	1996	6
03-14-029	Kingswood Parke, Phs 1, 8-11, +	Arizona-American Water Company	27-300104	Mar	WPhx	1996	394
08-14-030	Tonto Verde Unit 4	Rio Verde Utility, Inc.	27-300151	Mar	EPhx	1996	82
02-14-031	South Creek Ranch	Queen Creek Water Company	27-300138	Mar	EPhx	1996	24
12-14-032	Deer Village	Rose Valley Water Company	27-300061	Mar	WPhx	1997	387
01-15-034	Renaissance Point, Parcel 2	Arizona Water Company	27-300107	Pinal	EPhx	1996	216
01-15-035	Broadway Homes	Arizona Water Company	27-300171	Pinal	EPhx	1996	11
11-14-036	Pinnacle West Ranch, Phase I	Beardsley Water Company	27-300015	Mar	WPhx	1996	48
02-14-037	Orchard Ranchettes Phase I&2	Queen Creek Water Company	27-300176	Mar	EPhx	1997	64
02-14-039	Circle G at Queen Creek, Unit II	Queen Creek Water Company	27-300191	Mar	EPhx	1996	37
03-14-045	Arizona Traditions IV, V, VI, VII	Arizona-American Water Company	27-300177	Mar	WPhx	1996	398
15-14-047	Silverton, Parcel I, II, III	New River Utility Company	27-300186	Mar	WPhx	1996	179
18-14-048	Montana Blanca Estates	City of El Mirage	27-300187	Mar	WPhx	1998	153
03-14-050	Villages at West Point	Arizona-American Water Company	27-300203	Mar	WPhx	1996	427
03-14-051	Homes by D. Brown at W. Point	Arizona-American Water Company	27-300204	Mar	WPhx	1996	491
15-14-052	Sunrise at Desert Mountian	New River Utility Company	27-300193	Mar	WPhx	1996	99
22-14-053	Palm Valley Parcel 4	Litchfield Park Service Company	27-300195	Mar	WPhx	1997	95
03-14-054	Dave Brown at West Pt.-Mdl. Com	Arizona-American Water Company	27-300208	Mar	WPhx	1996	17
12-14-055	Dove Valley Ranch Parcel 6	Rose Valley Water Company	27-300172	Mar	WPhx	1997	254
01-15-056	Vista Del Corazon	Arizona Water Company	27-300226	Pinal	EPhx	1997	153
01-15-057	Meridian Manor	Arizona Water Company	27-300165	Pinal	EPhx	1996	445
12-14-058	Dove Valley Ranch Parcel 3	Rose Valley Water Company	27-300188	Mar	WPhx	1996	638
02-14-059	San Marqui Estates	Queen Creek Water Company	27-300218	Mar	EPhx	1997	45
01-15-060	Gold Canyon East Phs. 4, par.1-3	Arizona Water Company	27-300220	Pinal	EPhx	1997	143
03-14-061	Arizona Traditions II & III	Arizona-American Water Company	27-300101	Mar	WPhx	1996	106
23-14-062	Primrose Estates, Phase I, II, III	Water Utility of Greater Buckeye	27-300206	Mar	WPhx	1997	54
01-14-066	Ryland Homes at W. Point & Mdl.	Arizona-American Water Company	27-300228	Mar	WPhx	1997	226
03-14-067	Kaufman & Broad at W. Point	Arizona-American Water Company	27-300227	Mar	WPhx	1997	180
12-14-068	Deer Village II	Rose Valley Water Company	27-300189	Mar	WPhx	1997	148
12-14-069	Dove Valley Ranch Parcel 5	Rose Valley Water Company	27-300219	Mar	WPhx	1997	148
25-15-070	Golf View Estates	H2O, Inc.	27-300134	Pinal	EPhx	1997	86
18-14-071	Sunrize at Surprise	City of El Mirage	27-300235	Mar	WPhx	1997	16
26-14-072	Eagle Canyon	Sunrise Water Company	27-300555	Mar	WPhx	1998	71
15-14-073	Fletcher Heights	New River Utility Company	27-300237	Mar	WPhx	1997	2086
02-14-074	Circle G at Queen Creek Unit II A	Queen Creek Water Company	27-300245	Mar	EPhx	1997	16

**TABLE B-1
Phoenix AMA Member Lands
(Enrollment Through 2003)**

CAGR Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrlmt Year	No. of Lots
01-15-076	Foothills at Gold Canyon Ranch	Arizona Water Company	27-300246	Pinal	EPHx	1997	108
01-15-077	Parcel 24 E. at Gold Canyon Ran.	Arizona Water Company	27-300255	Pinal	EPHx	1997	103
26-14-081	Calle Lejos Estates	Sunrise Water Company	27-300265	Mar	WPhx	1997	56
01-15-084	Mountainbrook Village Prcl. 16A&17	Arizona Water Company	27-300278	Pinal	EPHx	1997	106
11-14-088	Vida Del Sol Estates	Beardsley Water Company	27-300223	Mar	WPhx	1997	122
18-14-089	Pueblo Futura Subdivision	City of El Mirage	27-300270	Mar	WPhx	1997	119
01-15-090	Sunrise Canyon	Arizona Water Company	27-300293	Pinal	EPHx	1997	562
01-15-092	Parcel 24 W. at Gold Canyon Ran.	Arizona Water Company	27-300358	Pinal	EPHx	1997	103
01-15-093	Parcel 22 W. at Gold Canyon Ran.	Arizona Water Company	27-300301	Pinal	EPHx	1997	70
02-14-094	Will Rogers Equestrian Ran. Unit 1-3	Queen Creek Water Company	27-300297	Mar	EPHx	1997	125
03-14-095	Litchfield Subdivision	Arizona-American Water Company	27-300291	Mar	WPhx	1997	142
25-15-096	Vinwood Estates	H2O, Inc.	27-300295	Pinal	EPHx	1997	60
29-14-097	Litchfield Vista Views II	Tierra Buena Water Company	27-300310	Mar	WPhx	1997	76
30-14-098	Buckeye Ranch, Phase I	Water Utility of Greater Tonopah	27-300290	Mar	WPhx	1997	201
01-15-100	Parcel 22 E. at Gold Canyon Ran.	Arizona Water Company	27-300315	Pinal	EPHx	1997	94
01-15-101	Parcel 25 N. at Gold Canton Ranch	Arizona Water Company	27-300314	Pinal	EPHx	1997	79
02-14-102	Emans Estates	Queen Creek Water Company	27-300318	Mar	EPHx	1998	8
01-14-104	University East	Arizona Water Company	27-300300	Mar	EPHx	1997	170
01-15-105	Renaissance Park	Arizona Water Company	27-300319	Pinal	EPHx	1997	140
08-14-106	Tonto Verde Unit 5	Rio Verde Utility, Inc.	27-300324	Mar	EPHx	1997	42
01-15-108	Parcel 25 S. at Gold Canyon Ranch	Arizona Water Company	27-300332	Pinal	EPHx	1997	72
01-15-109	Wilderness at Superstition Foothills	Arizona Water Company	27-300269	Pinal	EPHx	1998	32
02-14-110	Queen Creek Ranchettes III	Queen Creek Water Company	27-300339	Mar	EPHx	1997	59
01-14-112	Litchfield Heights	Arizona Water Company	27-300252	Mar	WPhx	1997	12
01-15-114	Parcel 18 at Mountainbrook Village	Arizona Water Company	27-300349	Pinal	EPHx	1998	94
01-15-115	Parcel 19 at Mountainbrook Village	Arizona Water Company	27-300350	Pinal	EPHx	1998	197
01-15-116	Prcl 10,14B&14C at Mountainbrook	Arizona Water Company	27-300348	Pinal	EPHx	1998	199
01-15-119	Sunrise at Gold Canyon	Arizona Water Company	27-300373	Pinal	EPHx	1997	161
01-15-120	Tesoro at Gold Canyon East	Arizona Water Company	27-300357	Pinal	EPHx	1998	92
03-14-121	U.S. Home at W. Point Towne Cntr.	Arizona-American Water Company	27-300356	Mar	WPhx	1997	281
01-15-124	Ponderosa at Superstition Foothills	Arizona Water Company	27-300362	Pinal	EPHx	1998	81
01-15-125	Acacia at Superstition Foothills	Arizona Water Company	27-300363	Pinal	EPHx	1997	18
01-15-129	Ironwood Estates	Arizona Water Company	27-300378	Pinal	EPHx	1998	210
01-14-130	Vista Mountain Estates	Arizona Water Company	27-400574	Mar	WPhx	1998	45
02-14-133	Roman Estates Phase I & II	Queen Creek Water Company	27-300391	Mar	EPHx	1998	52
02-14-134	Arroyo De La Reina	Queen Creek Water Company	27-300395	Mar	EPHx	1998	30
08-14-135	Rio Verde Estates	Rio Verde Utility, Inc.	27-300399	Mar	EPHx	1998	30
03-14-136	Arizona Traditions VIII, IX & X	Arizona-American Water Company	27-300402	Mar	WPhx	1998	263
01-14-137	Parkwood East	Arizona Water Company	27-300381	Mar	EPHx	1998	322
01-14-138	Parkwood East II	Arizona Water Company	27-300383	Mar	EPHx	1998	178
01-15-140	Ironwood Cove II	Arizona Water Company	27-300415	Pinal	EPHx	1998	34
02-14-141	Circle G at Queen Creek Unit III	Queen Creek Water Company	27-300417	Mar	EPHx	1998	37
01-15-142	Vista Grande	Arizona Water Company	27-300425	Pinal	EPHx	1998	96
01-15-146	Wildflower Village @ Spstn Fthlls	Arizona Water Company	27-300396	Pinal	EPHx	1998	9
01-15-147	Pinyon Village @ Spstn Fthlls	Arizona Water Company	27-300398	Pinal	EPHx	1998	49
01-15-148	Greythorn Village @ Spstn Fthlls	Arizona Water Company	27-300403	Pinal	EPHx	1998	24
01-15-149	Juniper Village @ Spstn Fthlls	Arizona Water Company	27-300397	Pinal	EPHx	1998	55
22-14-150	Sunrise at Palm Valley	Litchfield Park Service Company	27-300447	Mar	WPhx	1998	397
33-15-151/158	Johnson Ranch 1,2,3A,3B,4A,4B,6,7	Johnson Utilities, LLC, Inc.	27-300457	Pinal	EPHx	1998	1086
01-15-159	Parcel 26-1A at Gold Canyon Ranch	Arizona Water Company	27-400122	Pinal	EPHx	1998	17
01-15-159	Parcel 26-2A at Gold Canyon Ranch	Arizona Water Company	27-400114	Pinal	EPHx	1998	46
01-15-159	Parcel 26B at Gold Canyon Ranch	Arizona Water Company	27-400120	Pinal	EPHx	1998	96
01-15-159	Parcel 26C at Gold Canyon Ranch	Arizona Water Company	27-400119	Pinal	EPHx	1998	51
01-15-163	Vista Point at Gold Canyon Ranch	Arizona Water Company	27-300449	Pinal	EPHx	1998	85

**TABLE B-1
Phoenix AMA Member Lands
(Enrollment Through 2003)**

CAGR Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrlmt Year	No. of Lots
01-15-164	Aldea en la Colina del Cascabel	Arizona Water Company	27-300135	Pinal	EPHx	1998	54
01-15-166	Superior Highlands	Arizona Water Company	27-300459	Pinal	EPHx	1998	110
08-14-167	Tonto Verde Unit 6	Rio Verde Utility, Inc.	27-300473	Mar	EPHx	1998	62
02-14-168	Queen Creek Ranch Estates	Queen Creek Water Company	27-300472	Mar	EPHx	1998	8
01-14-169	Mountain Ranch	Arizona Water Company	27-300476	Mar	WPhx	1998	324
22-14-170	Palm Valley Phase IIIA	Litchfield Park Service Company	27-300481	Mar	WPhx	1998	310
03-14-171	Citrus Point	Arizona-American Water Company	27-300474	Mar	WPhx	1998	332
02-14-172	Ranchos Paseo de Caballos	Queen Creek Water Company	27-300486	Mar	EPHx	1998	16
18-14-173	Arizona Brisas - Phase 1	City of El Mirage	27-300491	Mar	WPhx	1998	454
18-14-174	Arizona Brisas - Phase 2	City of El Mirage	27-300495	Mar	WPhx	1998	211
18-14-175	Arizona Brisas - Phase 3	City of El Mirage	27-300496	Mar	WPhx	1998	275
01-15-176	Estates at Gold Canyon	Arizona Water Company	27-300479	Pinal	EPHx	1998	33
01-14-177	Camberley Place	Arizona Water Company	27-300465	Mar	EPHx	1998	128
01-15-178	Sierra Vista at Gold Canyon Ranch	Arizona Water Company	27-300458	Pinal	EPHx	1998	116
26-14-179	Silvercrest at Treasure Canyon	Sunrise Water Company	27-400492	Mar	WPhx	1999	59
26-14-180	Salida Del Sol	Sunrise Water Company	27-300504	Mar	WPhx	1998	26
01-15-181	Parcel 15 at Mountainbrook Village	Arizona Water Company	27-300519	Pinal	EPHx	1998	70
01-15-182	Quail Canyon	Arizona Water Company	27-300540	Pinal	EPHx	1999	40
03-14-183	Arizona Traditions - XI	Arizona-American Water Company	27-300529	Mar	WPhx	1998	108
03-14-184	Canyon Ridge West	Arizona-American Water Company	27-300530	Mar	WPhx	1999	367
03-14-185	Northwest Ranch	Arizona-American Water Company	27-300535	Mar	WPhx	1999	966
03-14-186	Bell West Ranch	Arizona-American Water Company	27-300537	Mar	WPhx	1999	974
01-14-187	Litchfield Heights Unit II	Arizona Water Company	27-300539	Mar	WPhx	1998	16
01-15-188	Mountain Whisper at Gold Canyon	Arizona Water Company	27-300546	Pinal	EPHx	1998	39
01-15-189	Cottonwood Village at Spstn Fthlls	Arizona Water Company	27-300544	Pinal	EPHx	1998	11
01-15-190	Sycamore Village at Spstn Fthlls	Arizona Water Company	27-300543	Pinal	EPHx	1998	34
06-14-191	Joy Ranch	Desert Hills Water Company	27-400490	Mar	EPHx	1999	30
17-14-192	Parkview Casitas	City of Tolleson	27-300531	Mar	WPhx	1999	27
25-14-193	Cloud Creek Ranch	H2O, Inc.	27-300560	Mar	EPHx	1998	17
17-14-194	Mercy Manor	City of Tolleson	27-300551	Mar	WPhx	1999	10
26-14-195	Clearview Estates	Sunrise Water Company	27-300554	Mar	WPhx	1999	55
01-14-196	Adobe Estates	Arizona Water Company	27-300570	Mar	EPHx	1999	123
01-15-198	Coyote Call	Arizona Water Company	27-400775	Pinal	EPHx	1999	125
01-15-199	Purple Sage II	Arizona Water Company	27-300578	Pinal	EPHx	1999	32
01-15-200	Purple Sage III	Arizona Water Company	27-300579	Pinal	EPHx	1999	12
02-14-201	Roman Estates Phase 4	Queen Creek Water Company	27-400321	Mar	EPHx	2000	29
03-14-202	Greenway Parc at Surprise - Phs 1 & 2	Arizona-American Water Company	27-300582	Mar	WPhx	1999	565
01-15-203	Peralta	Arizona Water Company	27-300593	Pinal	EPHx	2000	47
01-14-204	Litchfield Heights Unit III	Arizona Water Company	27-300597	Mar	WPhx	1999	19
22-14-205	Pebblecreek Unit 25	Litchfield Park Service Company	27-300550	Mar	WPhx	1999	22
33-15-206	Wild Horse Estates	Johnson Utilities, LLC, Inc.	27-300588	Pinal	EPHx	1999	81
01-15-207	Golden Eagle at Spstn Fthlls	Arizona Water Company	27-300605	Pinal	EPHx	1999	65
01-15-208	Parcel 12 at Spstn Fthlls	Arizona Water Company	27-300604	Pinal	EPHx	1999	41
34-14-209	H Bar H Estates	Chandler Heights Citrus Irr. District	27-300471	Mar	EPHx	1999	16
08-14-210	Tonto Verde Unit Seven	Rio Verde Utility, Inc.	27-400016	Mar	EPHx	1999	157
18-14-211	Sundial Unit I & II	City of El Mirage	27-400012	Mar	WPhx	1999	1018
33-15-213	Johnson Ranch Lakeview Gardens	Johnson Utilities, LLC, Inc.	27-400019	Pinal	EPHx	1999	58
02-14-214	Creek View Ranches	Queen Creek Water Company	27-400033	Mar	EPHx	1999	16
02-14-215	Circle G at Queen Creek IV	Queen Creek Water Company	27-400007	Mar	EPHx	1999	69
01-15-216	Sierra Entrada Garden Homes, Unit II	Arizona Water Company	27-400040	Pinal	EPHx	1999	8
15-14-217	Silverton Unit II	New River Utility Company	27-400032	Mar	WPhx	1999	162
01-14-218	Litchfield Heights Unit IV	Arizona Water Company	27-400024	Mar	WPhx	1999	20
01-15-219	Ranch 160	Arizona Water Company	27-400594	Pinal	EPHx	1999	521
03-14-220	Greenway Parc at Surprise Three	Arizona-American Water Company	27-400058	Mar	WPhx	1999	78

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CAGR Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrlmt Year	No. of Lots
01-15-222	Falcon Village at Superstition Foothills	Arizona Water Company	27-400696	Pinal	EPHx	1999	45
22-14-223	Bel Fleur	Litchfield Park Service Company	27-400031	Mar	WPhx	1999	105
02-14-224	Orchard Ranchettes II, Phase A	Queen Creek Water Company	27-400030	Mar	EPHx	1999	32
01-14-225	Signal Butte Manor	Arizona Water Company	27-300571	Mar	EPHx	1999	121
03-14-227	Montana Farms	Arizona-American Water Company	27-400041	Mar	WPhx	1999	19
35-14-228	Granite Mountain Ranch	Water Utility of Northern Scottsdale	27-400070	Mar	EPHx	1999	100
22-14-229	Palm Valley Phase I, Parcel 12	Litchfield Park Service Company	27-400075	Mar	WPhx	1999	56
15-14-230	New River Commerce Park	New River Utility Company	27-400076	Mar	WPhx	1999	13
03-14-231	Legacy Parc	Arizona-American Water Company	27-400079	Mar	WPhx	1999	1050
22-14-232	Palm Valley Phase II, Parcel 5	Litchfield Park Service Company	27-400125	Mar	WPhx	1999	84
36-15-233	Skyline Vista Ranch	Diversified Water Utilities	27-400046	Pinal	EPHx	1999	113
26-14-234	Summit at Sunrise	Sunrise Water Company	27-300541	Mar	WPhx	2000	16
08-14-236	Verde Village	Rio Verde Utility, Inc.	27-400106	Mar	EPHx	1999	19
01-15-238	Superstition Foothills, Parcel 23A	Arizona Water Company	27-400115	Pinal	EPHx	1999	31
01-15-239	Superstition Foothills, Parcel 23B	Arizona Water Company	27-400118	Pinal	EPHx	1999	26
01-15-240	Superstition Foothills, Parcel 27A	Arizona Water Company	27-400123	Pinal	EPHx	1999	58
01-15-241	Superstition Foothills, Parcel 27B	Arizona Water Company	27-400117	Pinal	EPHx	1999	43
01-15-242	Superstition Foothills, Parcel 28A	Arizona Water Company	27-400121	Pinal	EPHx	1999	75
01-15-243	Superstition Foothills, Parcel 28B	Arizona Water Company	27-400116	Pinal	EPHx	1999	103
01-15-249	Hieroglyphic Trails	Arizona Water Company	27-400128	Pinal	EPHx	1999	25
38-14-250	Santan Vista, Phases 1,2, & 3	Pima Utility Company	27-400129 & 27-400648	Mar	EPHx	1999	155
01-14-251	Signal Butte Manor II	Arizona Water Company	27-400136	Mar	EPHx	1999	237
12-14-254	Cantera Gates	Rose Valley Water Company	27-400130	Mar	WPhx	1999	9
02-14-255	Queenland Manor	Queen Creek Water Company	27-400141	Mar	EPHx	1999	366
25-15-257	Cambria	H2O, Inc.	27-400211	Pinal	EPHx	2000	871
02-14-260	San Tan Vistas Ranch	Queen Creek Water Company	27-400152	Mar	EPHx	1999	26
01-14-262	Merrill Ranch	Arizona Water Company	27-400158	Mar	EPHx	1999	79
01-15-263	Peralta Preserve Units I,II, & III	Arizona Water Company	27-400161	Pinal	EPHx	1999	832
01-15-264	Estates at Superstition Mountain	Arizona Water Company	27-401153	Pinal	EPHx	1999	30
08-14-267	Tonto Verde Unit 8	Rio Verde Utility, Inc.	27-400184	Mar	EPHx	1999	63
22-14-269	Palm Valley Parcel 17A & 17B	Litchfield Park Service Company	27-400177/8	Mar	WPhx	1999	240
22-14-275	PebbleCreek Units 26, 27, 28, 29, & 30	Litchfield Park Service Company	27-400185	Mar	WPhx	2000	538
01-14-276	Superstition Heights	Arizona Water Company	27-400182	Mar	EPHx	2000	77
01-14-277	Sagewood	Arizona Water Company	27-400156	Mar	EPHx	2000	34
01-14-278	Sagewood II	Arizona Water Company	27-400157	Mar	EPHx	2000	33
01-14-279	EDC Estates	Arizona Water Company	27-400212	Mar	WPhx	2000	8
01-15-280	Apache Dream Townhomes	Arizona Water Company	27-400511	Pinal	EPHx	2000	30
01-15-283	Barkley Hill	Arizona Water Company	27-400216	Pinal	EPHx	2000	26
02-14-287	Roman Estates Phase 3	Queen Creek Water Company	27-400147	Mar	EPHx	2000	20
03-14-289	Youngtown Gardens Condominiums	Arizona-American Water Company	27-400240	Mar	WPhx	2000	126
01-14-290	Silverwood Units I & II	Arizona Water Company	27-400077	Mar	EPHx	2000	129
22-14-292	Palm Valley Phase IIIB	Litchfield Park Service Company	27-400249	Mar	WPhx	2000	348
02-14-293	Roman Estates Phase 6	Queen Creek Water Company	27-400294	Mar	EPHx	2000	13
06-14-295	Softwinds Desert View Estates	Desert Hills Water Company	27-400261	Mar	EPHx	2000	17
41-14-296	Buckeye Park	Valencia Water Company	27-400265	Mar	WPhx	2000	117
03-14-297	Surprise Farms 1A North	Arizona-American Water Company	27-400267	Mar	WPhx	2000	398
03-14-298	Surprise Farms 1A South	Arizona-American Water Company	27-400269	Mar	WPhx	2000	605
03-14-299	Surprise Farms 1B North	Arizona-American Water Company	27-400270	Mar	WPhx	2000	435
03-14-300	Surprise Farms 1B South	Arizona-American Water Company	27-400268	Mar	WPhx	2000	638
22-14-301	Dreaming Summit Units 2A&2B	Litchfield Park Service Company	27-400254	Mar	WPhx	2000	830
01-15-302	Lost Dutchman Gardens	Arizona Water Company	27-400159	Pinal	EPHx	2000	35
02-14-303	Country Park Estates	Queen Creek Water Company	27-400272	Mar	EPHx	2000	22
22-14-304	Pebble Creek Units 31-65	Litchfield Park Service Company	27-400287	Mar	WPhx	2000	3618
03-14-305	Arizona Traditions Parcels XII & XIII	Arizona-American Water Company	27-400282 & 544	Mar	WPhx	2000	267

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CAGR Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrlmt Year	No. of Lots
02-14-306	Sossaman Estates	Queen Creek Water Company	27-400291	Mar	EPHx	2000	722
01-15-307	Lost Gold Estates Unit I	Arizona Water Company	27-300585	Pinal	EPHx	2000	26
01-15-308	Lost Gold Estates Unit II	Arizona Water Company	27-300587	Pinal	EPHx	2000	23
01-15-309	Lost Gold Estates Unit III	Arizona Water Company	27-400027	Pinal	EPHx	2000	15
42-14-313	Dreaming Summit Unit 1	Valley Utilities Water Company	27-400283-6	Mar	WPhx	2000	525
12-14-316	Hunter Field Estates	Rose Valley Water Company	27-400241	Mar	WPhx	2000	22
22-14-317	Veranda	Litchfield Park Service Company	27-400299	Mar	WPhx	2000	123
02-14-320	Ocotillo Heights	Queen Creek Water Company		Mar	EPHx	2000	187
25-14-321	Rittenhouse Ranch on the Creek	H2O, Inc.	27-401226.0000	Mar	EPHx	2000	308
02-14-322	Pegasus Airpark, Unit 1	Queen Creek Water Company	27-400317	Mar	EPHx	2000	49
02-14-323	TerraRanch at Queen Creek	Queen Creek Water Company	27-400508	Mar	EPHx	2000	56
01-15-324	Canyon View Estates at Superstition Foothills	Arizona Water Company	27-400310	Pinal	EPHx	2000	21
01-15-325	Petroglyph Estates at Superstition Foothills	Arizona Water Company	27-400315	Pinal	EPHx	2000	55
23-14-329	Sonoran Ridge Estates Unit 1	Water Utility of Greater Buckeye	27-400327	Mar	WPhx	2000	33
44-14-331	Ironwood Vista	Town of Buckeye	27-400346	Mar	WPhx	2000	113
35-14-332	Rio Mountain Estates	Water Utility of Northern Scottsdale	27-400347	Mar	EPHx	2000	109
03-14-333	Happy Trails Resort No. 10	Arizona-American Water Company	27-400350	Mar	WPhx	2000	55
45-14-334	99th Avenue & Southern	Tres Rios Homeowners Association, Inc.	27-400338	Mar	WPhx	2000	118
06-14-335	Greer Ranch	Desert Hills Water Company	27-400362	Mar	EPHx	2000	156
02-14-336	Egyptian Valley Phases 1 & 2	Queen Creek Water Company	27-400358 & 359	Mar	EPHx	2001	170
02-14-337	Sonokai Ranch, The Equestrian	Queen Creek Water Company	27-400356	Mar	EPHx	2000	26
02-14-338	Sonokai Ranch, The Meadows	Queen Creek Water Company	27-400355	Mar	EPHx	2000	24
02-14-339	Sonokai Ranch, San Tan Vistas	Queen Creek Water Company	27-400354	Mar	EPHx	2000	30
08-14-340	Tonto Verde Unit Nine	Rio Verde Utility, Inc.	27-400364	Mar	EPHx	2000	96
44-14-342	Norte Vista	Town of Buckeye	27-400292	Mar	WPhx	2001	39
02-14-345	Villages at Queen Creek - Phase 1	Queen Creek Water Company	27-400373	Mar	EPHx	2000	679
41-14-347	Sunset Point	Valencia Water Company	27-400374	Mar	WPhx	2000	408
02-14-351	Orchard Ranchettes II, Ph B,C&D	Queen Creek Water Company	27-400357	Mar	EPHx	2001	99
01-14-352	Camelback Garden Farms	Arizona Water Company	27-400322	Mar	WPhx	2001	64
01-14-357	Salerno Ranch	Arizona Water Company	27-400251	Mar	EPHx	2000	134
44-14-358	Parkside at Buckeye	Town of Buckeye	27-400395	Mar	WPhx	2000	214
36-15-362	Valley of the Sun Estates	Diversified Water Utilities	27-400436	Pinal	Ephx	2001	9
22-14-364/5	Wigwam Creek Par 1-12	Litchfield Park Service Company	27-400410,411,707,706	Mar	WPhx	2001	1205
48-14-366	Southwest Desert Estates	Clearwater Utilities Company, Inc.	27-400205	Mar	WPhx	2000	32
50-14-367	Judson Estates	Arizona-American Water Company (PVWC)	27-400403	Mar	EPHx	2001	32
03-14-368	Russell Ranch	Arizona-American Water Company	27-400414	Mar	WPhx	2001	493
25-15-369	The Links Estates Unit 2	H2O, Inc.	27-400191	Pinal	EPHx	2003	76
03-14-370	Tash Property	Arizona-American Water Company	27-400404	Mar	WPhx	2001	251
01-14-371	Blue Horizon Villages, Parcels 1-4	Arizona Water Company	27-400422	Mar	WPhx	2001	309
41-14-372	Blue Hills	Valencia Water Company	27-400421	Mar	WPhx	2001	470
41-14-373	Dove Cove	Valencia Water Company	27-400423	Mar	WPhx	2001	345
01-14-374	Parkman Ranch	Arizona Water Company	27-400440	Mar	WPhx	2001	633
01-14-376	Jackrabbit Trails	Arizona Water Company	27-400439	Mar	WPhx	2001	347
02-15-378	Goldmine Mountain	Queen Creek Water Company	27-400444	Pinal	EPHx	2001	114
01-14-381	Signal Butte Manor III	Arizona Water Company	27-400462	Mar	EPHx	2001	78
35-14-385	Verde Estates	Water Utility of Northern Scottsdale	27-400468	Mar	EPHx	2001	50
41-41-386	Rancho Vista	Valencia Water Company	27-400461	Mar	WPhx	2001	376
44-14-387	Terravista	Town of Buckeye	27-400465	Mar	WPhx	2001	317
02-14-389	Citrus Cove	Queen Creek Water Company	27-400469	Mar	EPHx	2001	17
22-14-390	Palm Valley Phase II, Parcel 1	Litchfield Park Service Company	27-400541	Mar	WPhx	2001	302
22-14-391	Palm Valley Phase II, Parcel 6	Litchfield Park Service Company	27-400474	Mar	WPhx	2001	49
22-14-392	Palm Valley Phase II, Parcel 10	Litchfield Park Service Company	27-400472	Mar	WPhx	2001	115
22-14-395	Dreaming Summit Unit 3A,Par.1-5 & Unit 3B, Par. 1-3	Litchfield Park Service Company	27-400487	Mar	WPhx	2001	441
06-14-397	Apache Peak III	Desert Hills Water Company	27-400502	Mar	EPHx	2001	33

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CAGR Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrlmt Year	No. of Lots
23-14-398	Sonoran Ridge Estates Unit 2	Water Utility of Greater Buckeye	27-400506	Mar	WPhx	2001	36
03-14-400	Montana Farms II	Arizona-American Water Company	27-400512	Mar	WPhx	2001	33
26-14-401	Camino De Oro Ranch	Sunrise Water Company	27-400522	Pima	WPhx	2001	23
00-14-403	Sarival Farms Phase 1	Adaman Mutual Water Company	27-400525	Mar	WPhx	2001	14
22-14-405	Wigwam Creek N. Phase 1	Litchfield Park Service Company	27-400453	Mar	WPhx	2001	351
25-15-406	Castlegate	H2O, Inc.	27-401001	Pinal	EPhx	2002	930
25-15-408	Kenworthy & Ocotillo	H2O, Inc.	27-400549	Pinal	EPhx	2001	271
22-14-409	The Village @ Litchfield Park, Phase I	Litchfield Park Service Company	27-400540	Mar	WPhx	2001	278
01-14-412	Wigwam Creek N. Phase 2	Litchfield Park Service Company	27-400528	Mar	WPhx	2001	831
02-14-413	The Pecans	Queen Creek Water Company	27-400571	Mar	EPhx	2002	258
48-14-414	Rainbow Valley Ranch	Clearwater Utilities Company, Inc.	27-400561	Mar	WPhx	2001	49
01-14-415	Litchfield Farms IIA	Arizona Water Company	27-400576	Mar	WPhx	2001	94
01-14-416	Litchfield Farms IIB	Arizona Water Company	27-400575	Mar	WPhx	2001	98
02-14-417	Cortina	Queen Creek Water Company	27-400582	Mar	Ephx	2001	1195
11-14-421	Patton Place Estates	Beardsley Water Company	27-400591	Mar	WPhx	2001	92
02-14-422	Estrella Vista	Queen Creek Water Company	27-400607	Mar	EPhx	2001	30
44-14-423	Sundance Parcels 37B and 40	Town of Buckeye	27-400569 & 570	Mar	WPhx	2001	436
42-14-424	Bethany Estates	Valley Utilities Water Company	27-400624	Mar	WPhx	2002	62
02-14-426	The Villages @ Queen Creek, Phase IIA	Queen Creek Water Company	27-400645	Mar	EPhx	2002	902
01-15-429	Parcel 14A at Superstition Foothills	Arizona Water Company	27-400593	Pinal	EPhx	2002	72
15-14-430	Fletcher Heights Parcel 21	New River Utility Company	27-400652	Mar	WPhx	2002	110
03-14-433	Arizona Traditions North Parcel XVI	Arizona-American Water Company	27-400641	Mar	WPhx	2002	129
25-15-435	The Cottages at Castlegate Parcel 1 and Parcel 2	H2O, Inc.	27-400635	Pinal	EPhx	2003	261
25-15-436	The Villages at Castlegate	H2O, Inc.	27-400984	Pinal	EPhx	2003	218
26-14-437	Starlight Canyon	Sunrise Water Company	27-400611	Mar	WPhx	2002	18
52-14-438	Sarival Farms Phase 2	Adaman Mutual Water Company	27-400670	Mar	WPhx	2002	18
03-14-439	Sierra Montana	Arizona-American Water Company	27-400676	Mar	WPhx	2002	1396
44-14-440	Sundance Parcel 12	Town of Buckeye	27-400586	Mar	WPhx	2002	63
44-14-440	Sundance Parcel 13	Town of Buckeye	27-400588	Mar	WPhx	2002	103
44-14-440	Sundance Parcel 28A	Town of Buckeye	27-400589	Mar	WPhx	2002	104
44-14-440	Sundance Parcel 29	Town of Buckeye	27-400590	Mar	WPhx	2002	90
44-14-441	Sundance Parcel 37A	Town of Buckeye	27-401191/211	Mar	WPhx	2002	188
01-14-442	Tonto Forest Estates	Arizona Water Company	27-400807	Mar	EPhx	2002	52
22-14-443	Palm Valley Phase II, Parcel 2	Litchfield Park Service Company	27-400689	Mar	WPhx	2002	105
22-14-444	Palm Valley Phase II, Parcel 7	Litchfield Park Service Company	27-400690	Mar	WPhx	2002	67
22-14-445	Palm Valley Phase II, Parcel 24	Litchfield Park Service Company	27-400693	Mar	WPhx	2002	53
42-14-446	Dysart Ranch	Valley Utilities Water Company	27-400704	Mar	WPhx	2002	28
23-14-449	Sonoran Ridge Estates Unit 3	Water Utility of Greater Buckeye	27-400731	Mar	WPhx	2002	96
11-14-450	Peak View Ranch	Beardsley Water Company	27-400733	Mar	WPhx	2002	93
44-14-451	Sundance Parcel 18	Town of Buckeye	27-400719	Mar	WPhx	2002	108
44-14-451	Sundance Parcel 20	Town of Buckeye	27-400720	Mar	WPhx	2002	106
44-14-451	Sundance Parcel 21	Town of Buckeye	27-400721	Mar	WPhx	2002	101
44-14-452	Sundance Parcel 36	Town of Buckeye	27-400602	Mar	WPhx	2002	108
41-14-454	Estrella Vista	Valencia Water Company	27-400752	Mar	WPhx	2002	535
02-15-455	Encanto Real, at San Tan Vistas	Queen Creek Water Company	27-400756	Pinal	EPhx	2002	37
04-14-457	Paradise View Villas Condominiums	Arizona-American Water Company (PVWC)	27-400784	Mar	EPhx	2002	64
44-14-458	Sundance Parcel 2	Town of Buckeye	27-400742	Mar	WPhx	2002	309
03-14-459	Cottonwood Estates	Arizona-American Water Company	27-400734	Mar	WPhx	2003	50
02-14-460	Emperor Estates Phase 1 and 2	Queen Creek Water Company	27-401135	Mar	EPhx	2002	479
03-14-461	Phase I, Pleasant Valley Country Club	Arizona-American Water Company	27-400792	Mar	WPhx	2002	615
03-14-462	Arizona Traditions North Parcel XV	Arizona-American Water Company	27-400764	Mar	WPhx	2002	244
22-14-463	Veranda II	Litchfield Park Service Company	27-400743	Mar	WPhx	2002	49
44-14-464	Sundance Parcels 15 and 28B	Town of Buckeye	27-400748	Mar	WPhx	2002	411
03-14-465	Agua Fria Ranch	Arizona-American Water Company	27-400795	Mar	WPhx	2002	783

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44-14-466	Sundance Parcels 14 and 24	Town of Buckeye	27-400747 & 749	Mar	WPhx	2002	130
25-15-469	Pecan Creek North	H2O, Inc.	27-400833	Pinal	EPHx	2002	1319
22-14-472	Colter Commons	Litchfield Park Service Company	27-400837	Mar	WPhx	2003	29
25-14-473	The Villages at Queen Creek Phase II	H2O, Inc.	27-400840	Mar	EPHx	2003	75
03-14-474	Verrado Parcel 4.601	Arizona-American Water Company	27-400824	Mar	WPhx	2003	27
03-14-475	Verrado Parcel 4.602	Arizona-American Water Company	27-400825	Mar	WPhx	2003	44
03-14-476	Verrado Parcel 4.603	Arizona-American Water Company	27-400811	Mar	WPhx	2003	65
03-14-477	Verrado Parcel 4.604	Arizona-American Water Company	27-400812	Mar	WPhx	2003	13
03-14-478	Verrado Parcel 4.605	Arizona-American Water Company	27-400813	Mar	WPhx	2003	56
03-14-479	Verrado Parcel 4.606	Arizona-American Water Company	27-400826	Mar	WPhx	2003	46
03-14-480	Verrado Parcel 4.607	Arizona-American Water Company	27-400827	Mar	WPhx	2003	42
03-14-481	Verrado Parcel 4.608	Arizona-American Water Company	27-400814	Mar	WPhx	2003	36
03-14-482	Verrado Parcel 4.609	Arizona-American Water Company	27-400815	Mar	WPhx	2003	51
03-14-483	Verrado Parcel 4.610	Arizona-American Water Company	27-400816	Mar	WPhx	2003	51
03-14-484	Verrado Parcel 4.611	Arizona-American Water Company	27-400817	Mar	WPhx	2003	48
03-14-485	Verrado Parcel 4.612	Arizona-American Water Company	27-400818	Mar	WPhx	2003	55
03-14-486	Verrado Parcel 4.613	Arizona-American Water Company	27-400819	Mar	WPhx	2003	42
03-14-487	Verrado Parcel 4.614	Arizona-American Water Company	27-400820	Mar	WPhx	2003	40
03-14-488	Verrado Parcel 4.615	Arizona-American Water Company	27-400821	Mar	WPhx	2003	39
03-14-489	Verrado Parcel 5.702	Arizona-American Water Company	27-400822	Mar	WPhx	2003	47
03-14-490	Verrado Parcel 5.703	Arizona-American Water Company	27-400823	Mar	WPhx	2003	53
01-15-491	Parcel 21A at Superstition Foothills	Arizona Water Company	27-400828	Pinal	EPHx	2002	13
44-14-492	Sundance Parcel 31	Town of Buckeye	27-400806	Mar	WPhx	2003	310
22-14-493	Wigwam Creek North Phase 2B	Litchfield Park Service Company	27-401182	Mar	WPhx	2002	21
04-14-494	Sienna Condominiums	Arizona-American Water Company (PVWC)	27-400843	Mar	EPHx	2002	274
02-14-495	Orchard Ranchettes III, Phase A and B	Queen Creek Water Company	27-400789	Mar	EPHx	2003	56
44-14-496	Sundance Parcel 28B	Town of Buckeye	27-400750	Mar	WPhx	2003	174
41-14-498	Montana Vista	Valencia Water Company	27-400864	Mar	WPhx	2003	283
44-14-499	Sundance Parcel 19	Town of Buckeye	27-400855	Mar	WPhx	2003	235
44-14-500	Sundance Parcel 20A	Town of Buckeye	27-400856	Mar	WPhx	2003	33
22-14-501	Goodyear Planned Regional Ctr, Precls 9, 10 & 11	Litchfield Park Service Company	27-400870	Mar	WPhx	2003	383
11-14-502	Patton Place Estates, Unit III	Beardsley Water Company	27-400867	Mar	WPhx	2003	30
41-14-504	Riata West	Valencia Water Company	27-400874	Mar	WPhx	2003	889
03-14-506	Sierra Montana Phase 2	Arizona-American Water Company	27-400879	Mar	WPhx	2003	693
25-15-510	Vineyard Estates	H2O, Inc.	27-400884	Pinal	EPHx	2003	161
44-14-511	Sundance Parcel 16	Town of Buckeye	27-400888	Mar	WPhx	2003	136
44-14-512	Sundance Parcel 17	Town of Buckeye	27-400889	Mar	WPhx	2003	117
44-14-513	Sundance Parcel 22	Town of Buckeye	27-400890	Mar	WPhx	2003	157
44-14-514	Sundance Parcel 23a	Town of Buckeye	27-400891	Mar	WPhx	2003	161
44-14-515	Sundance Parcel 23b	Town of Buckeye	27-400892	Mar	WPhx	2003	50
44-14-516	Sundance Parcel 25	Town of Buckeye	27-400893	Mar	WPhx	2003	112
44-14-517	Sundance Parcel 26	Town of Buckeye	27-400894	Mar	WPhx	2003	111
44-14-518	Sundance Parcel 27	Town of Buckeye	27-400895	Mar	WPhx	2003	177
01-14-519	Vista de Montana	Arizona Water Company	27-400926	Mar	WPhx	2003	1100
57-14-520	Estates at Lakeside	Lake Pleasant Water Company	27-400672	Mar	WPhx	2003	1100
34-14-521	Brekanwood Estates	Chandler Heights Citrus Irr. District	27-400919	Mar	EPHx	2003	47
02-14-522	Pegasus Airpark, Unit II	Queen Creek Water Company	27-400901	Mar	EPHx	2003	55
44-14-523	Sundance Parcel 41	Town of Buckeye	27-400916	Mar	WPhx	2003	60
01-15-524	Phase I at Entrada Del Oro	Arizona Water Company	27-400810	Pinal	EPHx	2003	372
11-14-527	Patton Place Estates Unit IV	Beardsley Water Company	27-400940	Mar	WPhx	2003	45
11-14-528	Coyote Trails	Beardsley Water Company	27-400949	Mar	WPhx	2003	120
41-14-529	Miller Manor Phase 1	Valencia Water Company	27-400923	Mar	WPhx	2003	105
03-14-531	Rancho Cabrillo-Parcels A, B, D & F	Arizona-American Water Company	27-400922	Mar	WPhx	2003	713
02-14-532	Saddlewood	Queen Creek Water Company	27-400995	Mar	EPHx	2003	16

**TABLE B-1
Phoenix AMA Member Lands
(Enrollment Through 2003)**

CAGR Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrlmt Year	No. of Lots
03-14-533	Greer Ranch South	Arizona-American Water Company	27-400980	Mar	WPhx	2003	677
44-14-534	Sundance Parcel 32	Town of Buckeye	27-400941	Mar	WPhx	2003	85
44-14-535	Sundance Parcel 33	Town of Buckeye	27-400942	Mar	WPhx	2003	36
44-14-536	Sundance Parcel 35	Town of Buckeye	27-400943	Mar	WPhx	2003	44
44-14-538	Sundance Parcel 42	Town of Buckeye	27-400917	Mar	WPhx	2003	149
03-14-539	The Villages at Sun City Grand Condominiums	Arizona-American Water Company	27-400992	Mar	WPhx	2003	252
03-14-540	Verrado Parcel 5.801	Arizona-American Water Company	27-400970	Mar	WPhx	2003	56
03-14-541	Verrado Parcel 5.804	Arizona-American Water Company	27-400960	Mar	WPhx	2003	36
03-14-542	Bell Pointe I	Arizona-American Water Company	27-400939	Mar	WPhx	2003	405
41-14-543	Sonoran Vista	Valencia Water Company	27-400997	Mar	WPhx	2003	543
03-14-544	Verrado Parcel 5.803	Arizona-American Water Company	27-400959	Mar	WPhx	2003	25
02-15-545	Creekside Estates	Queen Creek Water Company	27-401004	Mar	EPhx	2003	41
42-14-547	Luke Ranch Estates	Valley Utilities Water Company	27-400924	Mar	WPhx	2003	38
41-14-548	Sunset Pointe II	Valencia Water Company	27-400974	Mar	WPhx	2003	304
25-15-549	Wayne Ranch	H2O, Inc.	27-401015	Mar	EPhx	2003	423
03-14-550	Verrado Parcel 5.701	Arizona-American Water Company	27-401000	Mar	WPhx	2003	15
44-14-553	Acacia Crossing	Town of Buckeye	27-401034	Mar	WPhx	2003	241
25-15-554	Meadow Vista	H2O, Inc.	27-401035	Pinal	EPhx	2003	253
03-14-555	Twelve Oaks Estates	Arizona-American Water Company	27-401040	Mar	WPhx	2003	130
03-14-556	Tara Estates	Arizona-American Water Company	27-401039	Mar	WPhx	2003	23
11-14-557	Patton Place Estates Unit V	Beardsley Water Company	27-401041	Mar	WPhx	2003	45
01-15-558	Sierra Entrada Garden Homes	Arizona Water Company	27-401057	Pinal	EPhx	2003	15
03-14-559	Verrado Parcel 4.624	Arizona-American Water Company	27-401026	Mar	WPhx	2003	5
03-14-560	Verrado Parcel 5.704	Arizona-American Water Company	27-401025	Mar	WPhx	2003	20
02-14-561	Victoria Phase 2, Parcel 1	Queen Creek Water Company	27-401058	Mar	EPhx	2003	50
59-36-563	Tierra Linda Nueva	Tierra Linda Homeowners Association	27-401063	Mar	WPhx	2003	199
44-14-564	Windmill Village	Town of Buckeye	27-401008	Mar	WPhx	2003	517
03-14-565	Phase 2, Corte Bella Country Club	Arizona-American Water Company	27-401005	Mar	WPhx	2003	876
02-14-566	Montelena	Queen Creek Water Company	27-401074	Mar	EPhx	2003	404
01-15-570	Parcel 16 at Superstition Foothills	Arizona Water Company	27-401066	Pinal	EPhx	2003	88
03-14-572	Verrado Parcel 5.802	Arizona-American Water Company	27-400959	Mar	WPhx	2003	45
41-14-576	Buckeye 320, Phase I	Valencia Water Company	27-401127	Mar	WPhx	2003	311
22-14-578	The Village at Litchfield Park, Phase II, Parcel 6	Litchfield Park Service Company	27-401145	Mar	WPhx	2003	61
02-14-579	Langley Gateway Estates Unit II	Queen Creek Water Company	27-401147	Mar	EPhx	2003	338
03-14-580	Savannah	Arizona-American Water Company	27-401146	Mar	WPhx	2003	319
44-14-581	Sun City Festival, Phase 1	Town of Buckeye	27-401140	Mar	WPhx	2003	3473
03-14-582	Canyon Ridge West Parcel 5	Arizona-American Water Company	27-401138	Mar	WPhx	2003	152
03-14-583	Coldwater Ranch	Arizona-American Water Company	27-401148	Mar	WPhx	2003	600
03-14-584	Arizona Traditions North Parcel XIV	Arizona-American Water Company	27-401177	Mar	WPhx	2003	240
44-14-585	Sundance Parcel 38	Town of Buckeye	27-401162	Mar	WPhx	2003	49
44-14-586	Sundance Parcel 45A	Town of Buckeye	27-401161	Mar	WPhx	2003	70
42-14-587	Capistrano North	Valley Utilities Water Company	27-401183	Mar	WPhx	2003	112
42-14-588	Capistrano South	Valley Utilities Water Company	27-401184	Mar	WPhx	2003	50

**TABLE B-2
Pinal AMA Member Lands
(Enrollment Through 2003)**

CAGRD Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrlmt Year	No. of Lots
01-25-022	Casa De Ensueno	Arizona Water Company	27-300095	Pinal	Pinal	1996	11
01-25-064	Desert Views, Unit 1	Arizona Water Company	27-300224	Pinal	Pinal	1997	10
01-25-082	Val Vista Estates	Arizona Water Company	27-300267	Pinal	Pinal	1997	126
01-25-091	Desert Sky Ranch, Unit III, Phase I	Arizona Water Company	27-300261	Pinal	Pinal	1997	108
01-25-103	Quail Run at Coyote Ranch	Arizona Water Company	27-300316	Pinal	Pinal	1997	38
01-25-111	Ridge at Black Butte, The	Arizona Water Company	27-300342	Pinal	Pinal	1997	122
01-25-131	Saguaro Estates	Arizona Water Company	27-300389	Pinal	Pinal	1998	9
01-25-132	Echeverria Estates	Arizona Water Company	27-300353	Pinal	Pinal	1998	12
01-25-144	Casa Mirage	Arizona Water Company	27-300421	Pinal	Pinal	1998	80
01-25-145	Pebble Trail	Arizona Water Company	27-300432	Pinal	Pinal	1998	51
01-25-165	Santa Rosa	Arizona Water Company	27-300446	Pinal	Pinal	1998	201
01-25-197	Casa Grande Medical Campus	Arizona Water Company	27-300538	Pinal	Pinal	1999	9
01-25-221	Coolidge Country Village Estates	Arizona Water Company	27-300351	Pinal	Pinal	1999	150
01-25-226	NorthView Estates	Arizona Water Company	27-400044	Pinal	Pinal	1999	198
01-25-235	Rancho Palo Verde Estates	Arizona Water Company	27-400088	Pinal	Pinal	1999	108
01-25-237	Tierra Rica Estates	Arizona Water Company	27-400028	Pinal	Pinal	2000	16
01-25-259	Mesquite Tree Ranch	Arizona Water Company	27-400150	Pinal	Pinal	1999	150
01-25-261	Desert Views Unit 2	Arizona Water Company	27-400153	Pinal	Pinal	1999	26
01-25-265	Acacia Landing	Arizona Water Company	27-400168	Pinal	Pinal	2000	350
01-25-266	Smoke Tree 1C	Arizona Water Company	27-400171	Pinal	Pinal	1999	30
01-25-270	Pebble Trail Units 3,4 & 5	Arizona Water Company	27-400108	Pinal	Pinal	1999	80
01-25-271	Cornerstone	Arizona Water Company	27-400176	Pinal	Pinal	1999	26
01-25-272	Manor Vista	Arizona Water Company	27-400200	Pinal	Pinal	2000	7
01-25-273	McCartney Ranch	Arizona Water Company	27-400202	Pinal	Pinal	2000	2334
01-25-274	Sunland Ranches	Arizona Water Company	27-400203	Pinal	Pinal	2000	84
01-25-284	Gadsden Greens	Arizona Water Company	27-400193	Pinal	Pinal	2000	391
01-25-285	Ironwood Commons	Arizona Water Company	27-400214	Pinal	Pinal	2000	267
01-25-286	Silverhawk	Arizona Water Company	27-400234	Pinal	Pinal	2000	158
01-25-288	Sonoran Heights	Arizona Water Company	27-400237	Pinal	Pinal	2000	1055
01-25-291	Lancaster Estates	Arizona Water Company	27-400248	Pinal	Pinal	2000	11
01-25-310	Ironwood Village	Arizona Water Company	27-400281	Pinal	Pinal	2000	264
01-25-311	Park Homes	Arizona Water Company	27-400293	Pinal	Pinal	2000	115
01-25-314	Cottonwood Ranch	Arizona Water Company	27-400323	Pinal	Pinal	2000	1086
01-25-315	Weaver Ranch	Arizona Water Company	27-400273	Pinal	Pinal	2000	31
43-25-318	Sun Lakes Casa Grande	Picacho Water Company	27-400614	Pinal	Pinal	2000	8000
01-25-326	Cottonwood Village	Arizona Water Company	27-400313	Pinal	Pinal	2001	16
01-25-327	Trekell Estates	Arizona Water Company	27-400312	Pinal	Pinal	2001	40
01-25-328	Black Mountain Estates	Arizona Water Company	27-400305	Pinal	Pinal	2000	102
01-25-346	Valley Vista Estates	Arizona Water Company	27-400370	Pinal	Pinal	2000	115
01-25-348	Carter Ranch	Arizona Water Company	27-400377	Pinal	Pinal	2001	176
01-25-353	Garrett Estates	Arizona Water Company	27-400311	Pinal	Pinal	2000	6
01-25-355	Mountain View Ranch, Parcels B-H	Arizona Water Company	27-400195	Pinal	Pinal	2000	439
01-25-356	Kenilworth Gardens	Arizona Water Company	27-400393	Pinal	Pinal	2000	1272
01-25-359	Safeway	Arizona Water Company	27-400419	Pinal	Pinal	2001	1
01-25-360	McCartney Center	Arizona Water Company	27-400384	Pinal	Pinal	2001	617
01-25-361	Chaparral Estates	Arizona Water Company	27-400399	Pinal	Pinal	2001	204
01-25-375	Desert Sky Ranch Unit II and IV	Arizona Water Company	27-400429	Pinal	Pinal	2001	262
01-25-380	Jardines de Esperanzas	Arizona Water Company	27-400402	Pinal	Pinal	2001	16

TABLE B-2
Pinal AMA Member Lands
(Enrollment Through 2003)

CAGRD Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrllmt Year	No. of Lots
01-25-388	Highland Manor	Arizona Water Company	27-400495	Pinal	Pinal	2001	305
01-25-402	Mission Royale Parcels A, H, I & Golf Tracts F, H, J	Arizona Water Company	27-400797	Pinal	Pinal	2003	308
01-25-404	Bel Aire Estates	Arizona Water Company	27-400529	Pinal	Pinal	2001	44
01-25-407	Hacienda Palo Verde	Arizona Water Company	27-400531	Pinal	Pinal	2001	21
01-25-411	Arroyo	Arizona Water Company	27-400560	Pinal	Pinal	2001	356
01-25-419	Wildwood	Arizona Water Company	27-400605	Pinal	Pinal	2002	97
01-25-427	Mandalay Ranch	Arizona Water Company	27-400643	Pinal	Pinal	2002	32
01-25-428	Desert Crossing	Arizona Water Company	27-400646	Pinal	Pinal	2002	249
01-25-432	Cota Ranch	Arizona Water Company	27-400667	Pinal	Pinal	2002	67
42-25-448	McCartney Estates	Signal Peak Water Company	27-400684	Pinal	Pinal	2002	30
01-25-471	Sunset View Units 1 & 2	Arizona Water Company	27-400836	Pinal	Pinal	2002	45
01-25-497	Sunrise at Wildhorse	Arizona Water Company	27-400882	Pinal	Pinal	2003	95
01-25-552	Landmark Ranch - Phase 1	Arizona Water Company	27-400938	Pinal	Pinal	2003	655
01-25-568	Saddle Creek Ranch	Arizona Water Company	27-400936	Pinal	Pinal	2003	130
61-25-569	Montana del Sol	Silverbell Irrigation and Drainage District	27-401098	Pinal	Pinal	2003	203
01-25-574	Mission Ranch	Arizona Water Company	27-401122	Pinal	Pinal	2003	344

**TABLE B-3
Tucson AMA Member Lands
(Enrollment Through 2003)**

CAGR Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrllmt Year	No. of Lots
10-36-004	Mountain Cove Estates, Lots 1-18	MDWID (Formerly: Hub Water Company)	27-300016	Pima	Tucson	1995	18
09-36-005	Garden of Eden, Lots 1-18	Lago Del Oro Water Company	27-300044	Pima	Tucson	1995	18
07-36-013	Las Campanas, Block K	Community Water Company of G.V.	27-300082	Pima	Tucson	1996	113
05-36-023	Madera Foothills Estates, Lots 1-25	Farmers Water Company	27-300116	Pima	Tucson	1996	25
07-36-024	Las Campanas, Block G	Community Water Company of G.V.	27-300098	Pima	Tucson	1996	95
05-36-028	Madera Reserve, Lots 131-263 & Exp.	Farmers Water Company	27-300142	Pima	Tucson	1996	159
19-36-040	Voyager Homes Phase B	Voyager Water Company	27-300185	Pima	Tucson	1996	72
13-36-044	San Ignacio Villas	Green Valley DWID	27-300181	Pima	Tucson	1996	45
21-36-046	Tucson Avra West, Lots 1-168	Anway Manville L.L.C. Water Co.	27-300234	Pima	Tucson	1997	168
13-36-049	San Ignacio Vistas II, 71-92, 119-128	Green Valley DWID	27-300192	Pima	Tucson	1996	32
05-36-063	Greens at Santa Rita Springs, 168-214	Farmers Water Company	27-300233	Pima	Tucson	1997	47
27-36-078	Silver Moon Estates	Ray Water Company	27-400467	Pima	Tucson	1997	40
28-36-079	Forty Niners Country Club Estates II	49er Water Company	27-300263	Pima	Tucson	1997	17
05-36-080	Links at Santa Rita Springs	Farmers Water Company	27-300266	Pima	Tucson	1997	94
13-36-083	San Ignacio Heights Resub	Green Valley DWID	27-300275	Pima	Tucson	1997	11
13-36-085	San Ignacio Vistas II, Lots 1-70, 117-118	Green Valley DWID	27-300279	Pima	Tucson	1997	72
07-36-086	Duval Commerce Park	Community Water Company of G.V.	27-300244	Pima	Tucson	1997	9
01-35-087	Coronado Ridge	Arizona Water Company	27-300280	Pinal	Tucson	1997	60
07-36-099	La Joya Verde II	Community Water Company of G.V.	27-300311	Pima	Tucson	1997	105
09-36-107	Twin Lakes Subdivision, Lots 232-254	Lago Del Oro Water Company	27-300307	Pima	Tucson	1997	23
05-36-113	Springs II at Santa Rita	Farmers Water Company	27-300344	Pima	Tucson	1997	114
13-36-117	San Ignacio Vistas II, Phase 2,	Green Valley DWID	27-300347	Pima	Tucson	1997	130
07-36-118	Las Campanas, Block G-2	Community Water Company of G.V.	27-300346	Pima	Tucson	1997	121
05-36-122	Greens at Santa Rita Springs, 226-234	Farmers Water Company	27-300365	Pima	Tucson	1997	9
19-36-123	Voyager Homes Phase C	Voyager Water Company	27-300359	Pima	Tucson	1997	78
27-36-126	Desert Vista Estates	Ray Water Company	27-300361	Pima	Tucson	1997	157
31-36-127	Roger Square Townhomes	Flowing Wells Irrigation District	27-300366	Pima	Tucson	1997	10
32-36-128	Colonias La Canada, Lots 83-219	Las Quintas Serenas Water Company	27-400488	Pima	Tucson	1998	137
05-36-143	Presidio at Santa Rita Springs	Farmers Water Company	27-300424	Pima	Tucson	1998	252
37-36-248	Coyote Creek	Saguaro Water Company	27-400095	Pima	Tucson	1999	395
07-36-252	Paseo Tierra Townhomes	Community Water Company of G.V.	27-400131	Pima	Tucson	1999	9
13-36-256	Canoa Northwest Lots 1-167	Green Valley DWID	27-400144	Pima	Tucson	1999	167
05-36-258	Parcel E at Santa Rita Springs	Farmers Water Company	27-400148	Pima	Tucson	1999	35
07-36-268	Las Campanas Block H	Community Water Company of G.V.	27-400186	Pima	Tucson	1999	84
39-36-282	Mountain Creek Ranch	Rincon Water Company	27-400201	Pima	Tucson	2000	64
01-35-294	SaddleBrooke Ranch	Arizona Water Company	27-400263	Pinal	Tucson	2000	6000
13-36-312	Canoa Northwest Lots 167-329, CAs A,B,&C	Green Valley DWID	27-400289	Pima	Tucson	2000	161
31-36-330	Sagewood	Flowing Wells Irrigation District	27-400348	Pima	Tucson	2000	58
05-36-341	La Posada II	Farmers Water Company	27-400365	Pima	Tucson	2001	288
07-36-343	Santo Tomas Villas	Community Water Company of G.V.	27-400369	Pima	Tucson	2000	354
46-36-344	Tucson Mountain Ranch	Diablo Village Water Company	27-400503	Pima	Tucson	2000	50
07-36-349	Las Campanas Village, Block M, w half of Block N	Community Water Company of G.V.	27-400376	Pima	Tucson	2000	219
05-36-350	Pasadera	Farmers Water Company	27-400380	Pima	Tucson	2000	20
47-35-354	Eagle Crest Ranch	Goodman Water Company	27-400387	Pinal	Tucson	2001	975
46-36-377	Tucson Mountain Ranch - Lots 51-182	Diablo Village Water Company	27-400442	Pima	Tucson	2001	132
07-36-382	Las Campanas Block F, Lots 1-93 & CA A&B	Community Water Company of G.V.	27-400455	Pima	Tucson	2002	93
09-35-383	SaddleBrooke Unit 21	Lago Del Oro Water Company	27-400413	Pinal	Tucson	2001	215
05-36-384	Madera Foothills Estates, Lots 26-67 & CA A&B	Farmers Water Company	27-400456	Pima	Tucson	2001	42

**TABLE B-3
Tucson AMA Member Lands
(Enrollment Through 2003)**

CAGR Number	SUBDIVISION	WATER PROVIDER	ADWR Certificate #	Cnty	AMA	Enrllmt Year	No. of Lots
51-35-393	SaddleBrooke Units 42-45	Ridgeview Utility Company	27-400478	Pinal	Tucson	2001	525
37-36-394	Rincon Trails	Saguaro Water Company	27-400492	Pima	Tucson	2001	505
19-36-396	Voyager Homes, Phs D, Lots 232-289 & CA A&B	Voyager Water Company	27-400491	Pima	Tucson	2001	58
09-35-410	SaddleBrooke Units 46-50	Lago Del Oro Water Company	27-400552	Pinal	Tucson	2001	770
53-36-418	Avra Vista, Phase 1	Marana DWID	27-401073	Pima	Tucson	2003	64
46-36-431	Eagle Point Estates	Diablo Village Water Company	27-400664	Pima	Tucson	2002	273
10-36-434	Canyon Ranch Estates II	Metropolitan DWID	27-400666	Pima	Tucson	2002	20
54-35-447	Quail Creek Phase II	Quail Creek Water Company	27-400699	Pinal	Tucson	2002	1504
56-36-453	Black Horse	Los Cerros Water Company, Inc.	27-400705	Pima	Tucson	2002	414
27-36-456	Desert Vista Terrace	Ray Water Company	27-400777	Pima	Tucson	2002	183
37-36-467	Whisper Ranch	Saguaro Water Company	27-400803	Pima	Tucson	2002	46
07-36-468	Los Arroyos Del Este	Community Water Company of G.V.	27-400808	Pima	Tucson	2003	503
27-36-470	Drexel Manor	Ray Water Company	27-400841	Pima	Tucson	2003	140
13-36-503	Canoa Ranch Block 21, Lots 1-60 and CAs A&B	Green Valley DWID	27-400875	Pima	Tucson	2003	60
37-36-505	Spanish Trail Estates	Saguaro Water Company	27-400871	Pima	Tucson	2003	121
13-36-507	Canoa Ranch Blocks 19 & 20, Lots 61-160, A & B	Green Valley DWID	27-400883	Pima	Tucson	2003	100
07-36-508	La Joya Verde III, Lots 1-226	Community Water Company of G.V.	27-400885-7	Pima	Tucson	2003	226
13-36-509	Canoa Ranch Block 11, Lots 161-177, and CA A	Green Valley DWID	27-400896	Pima	Tucson	2003	17
05-36-525	The Estates at Madera Highlands	Farmers Water Company	27-400930	Pima	Tucson	2003	157
13-36-526	Canoa Ranch Block 28	Green Valley DWID	27-400935	Pima	Tucson	2003	193
46-36-530	Sonoran Ranch Estates	Diablo Village Water Company	27-400971	Pima	Tucson	2003	214
46-36-537	Sonoran Ranch Villages	Diablo Village Water Company	27-400994	Pima	Tucson	2003	110
32-36-546	Estates at La Cañada Norte, Lots 1-41	Las Quintas Serenas Water Company	27-401012	Pima	Tucson	2003	41
58-36-551	The Estates at Tortolita Preserve	Tortolita Water Company, Inc.	27-400982	Pima	Tucson	2003	25
37-36-573	Rancho Loma Alta	Saguaro Water Company	27-401121	Pima	Tucson	2003	24
05-36-577	De Anza Links	Farmers Water Company	27-401136	Pima	Tucson	2003	22

**TABLE B-4
Historic Parcel Replenishment Obligations
West Portion of the Phoenix AMA**

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)								
			1995	1996	1997	1998	1999	2000	2001	2002	2003
17-14-001	Villa Rica Subdivision	1995	0.10	1.58	4.21	13.48	19.66	22.98	0.00	0.00	0.00
18-14-015	Fox Hill Run	1996	--	0.15	4.53	7.12	--	--	--	--	--
18-14-018	5th Ave. Subdivision	1996	--	1.45	1.48	4.30	--	--	--	--	--
03-14-020	Arizona Traditions I	1996	--	5.41	13.35	14.34	10.22	0.00	4.73	5.91	3.40
16-14-025	Mountain Vista Ranch Parcel 6	1996	--	9.54	0.00	--	--	--	--	--	--
03-14-029	Kingswood Parke, Phs 1, 8-11, +	1996	--	2.25	22.30	83.25	45.70	44.24	26.06	33.08	23.48
11-14-036	Pinnacle West Ranch, Phase I	1996	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03-14-045	Arizona Traditions IV, V, VI, VII	1996	--	0.00	19.33	52.21	22.17	0.00	13.02	16.99	12.58
15-14-047	Silverton, Parcel I, II, III	1996	--	0.00	13.70	10.96	30.41	52.75	58.27	69.30	73.12
03-14-050	Villages at West Point	1996	--	0.00	20.53	78.97	31.60	31.94	23.55	34.76	25.02
03-14-051	Homes by D. Brown at W. Point	1996	--	0.00	17.98	64.88	63.37	52.08	31.87	51.96	36.63
15-14-052	Sunrise at Desert Mountian	1996	--	0.00	0.00	0.22	6.07	10.48	13.55	13.73	15.38
03-14-054	Dave Brown at West Pt.-Mdl. Com	1996	--	0.00	5.11	11.13	2.52	0.00	1.61	2.16	1.51
12-14-058	Dove Valley Ranch Parcel 3	1996	--	0.00	0.00	49.32	71.45	115.94	197.00	265.98	291.19
03-14-061	Arizona Traditions II & III	1996	--	18.75	26.67	35.98	6.73	0.00	3.86	5.85	4.16
12-14-032	Deer Village	1997	--	--	69.03	96.18	182.03	205.62	198.65	216.00	201.84
22-14-053	Palm Valley Parcel 4	1997	--	--	1.53	3.38	10.82	15.77	19.99	22.92	24.69
12-14-055	Dove Valley Ranch Parcel 6	1997	--	--	0.00	0.00	37.97	9.33	34.10	101.91	137.33
23-14-062	Primrose Estates, Phase I, II, III	1997	--	--	0.00	0.29	2.40	4.85	7.92	10.33	10.98
01-14-066	Ryland Homes at W. Point & Mdl.	1997	--	--	10.64	46.84	23.63	19.25	11.87	15.81	11.91
03-14-067	Kaufman & Broad at W. Point	1997	--	--	8.39	32.84	19.62	12.34	8.41	15.72	11.26
12-14-068	Deer Village II	1997	--	--	26.01	24.83	21.89	39.88	52.33	64.31	70.94
12-14-069	Dove Valley Ranch Parcel 5	1997	--	--	0.00	24.58	13.86	47.32	64.35	73.18	70.69
18-14-071	Sunrise at Surprise	1997	--	--	0.01	0.31	--	--	--	--	--
15-14-073	Fletcher Heights	1997	--	--	29.42	59.63	102.16	214.84	330.28	514.75	625.71
03-14-075	Parke Row	1997	--	--	0.00	3.56	6.59	7.19	4.91	7.94	5.44
26-14-081	Calle Lejos Estates	1997	--	--	0.74	1.34	5.77	11.11	17.44	24.53	28.36
11-14-088	Vida Del Sol Estates	1997	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.29
18-14-089	Pueblo Futura Subdivision	1997	--	--	0.00	0.07	--	--	--	--	--
03-14-095	Litchfield Subdivision	1997	--	--	0.00	4.11	11.85	11.12	8.34	10.96	8.06
29-14-097	Litchfield Vista Views II	1997	--	--	0.00	0.07	4.18	12.19	22.05	33.19	39.37
30-14-098	Buckeye Ranch, Phase I	1997	--	--	0.00	0.00	0.00	0.00	0.22	0.38	0.52
01-14-112	Litchfield Heights	1997	--	--	0.00	0.00	0.14	1.49	2.91	4.16	4.80
03-14-121	U.S. Home at W. Point Towne Cntr.	1997	--	--	0.00	31.10	21.05	19.72	19.03	18.88	14.05
18-14-048	Montana Blanca Estates	1998	--	--	--	0.00	--	--	--	--	--
26-14-072	Eagle Canyon	1998	--	--	--	2.48	0.41	11.46	26.74	36.71	40.14
01-14-130	Vista Mountain Estates	1998	--	--	--	0.00	0.00	0.00	0.00	0.00	0.23
03-14-136	Arizona Traditions VIII, IX & X	1998	--	--	--	0.00	5.76	0.00	7.50	11.05	11.12
22-14-150	Sunrise at Palm Valley	1998	--	--	--	0.13	0.05	13.95	48.88	109.40	113.71
01-14-169	Mountain Ranch	1998	--	--	--	0.00	0.00	0.00	0.00	0.00	4.08
22-14-170	Palm Valley Phase IIIA	1998	--	--	--	1.56	13.17	41.95	72.02	99.84	82.13
03-14-171	Citrus Point	1998	--	--	--	0.00	6.86	6.79	19.92	22.60	20.21
18-14-173	Arizona Brisas - Phase 1	1998	--	--	--	0.00	--	--	--	--	--
18-14-174	Arizona Brisas - Phase 2	1998	--	--	--	0.00	--	--	--	--	--
18-14-175	Arizona Brisas - Phase 3	1998	--	--	--	0.00	--	--	--	--	--
26-14-180	Salida Del Sol	1998	--	--	--	0.00	0.00	0.37	4.05	9.18	10.25
03-14-183	Arizona Traditions - XI	1998	--	--	--	0.00	2.38	0.00	7.01	11.15	7.28
01-14-187	Litchfield Heights Unit II	1998	--	--	--	0.00	0.01	1.94	6.43	6.18	6.30

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Historic Parcel Replenishment Obligations
West Portion of the Phoenix AMA

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)								
			1995	1996	1997	1998	1999	2000	2001	2002	2003
03-14-184	Canyon Ridge West	1999	--	--	--	--	8.37	8.22	31.58	65.80	74.00
03-14-185	Northwest Ranch	1999	--	--	--	--	0.00	0.00	0.00	0.75	22.87
03-14-186	Bell West Ranch	1999	--	--	--	--	14.50	0.00	10.48	19.06	19.33
17-14-192	Parkview Casitas	1999	--	--	--	--	0.00	0.99	0.00	0.00	0.00
17-14-194	Mercy Manor	1999	--	--	--	--	2.86	2.89	0.00	0.00	0.00
26-14-195	Clearview Estates	1999	--	--	--	--	0.56	10.10	33.20	45.70	53.60
03-14-202	Greenway Parc at Surprise - Phs 1 & 2	1999	--	--	--	--	6.02	0.00	12.59	26.73	29.11
01-14-204	Litchfield Heights Unit III	1999	--	--	--	--	0.00	0.35	2.94	5.68	7.79
22-14-205	Pebblecreek Unit 25	1999	--	--	--	--	0.00	0.08	1.39	2.19	2.64
18-14-211	Sundial Unit I & II	1999	--	--	--	--	--	--	--	--	--
15-14-217	Silverton Unit II	1999	--	--	--	--	0.00	29.35	41.37	75.99	82.84
01-14-218	Litchfield Heights Unit IV	1999	--	--	--	--	0.00	0.00	1.59	4.88	6.12
03-14-220	Greenway Parc at Surprise Three	1999	--	--	--	--	0.00	0.00	0.00	0.13	4.01
22-14-223	Bel Fleur	1999	--	--	--	--	0.53	8.84	28.24	46.04	40.44
03-14-227	Montana Farms	1999	--	--	--	--	0.03	0.00	1.13	1.43	1.29
22-14-229	Palm Valley Phase 1, Parcel 12	1999	--	--	--	--	0.08	3.40	11.52	16.42	17.55
15-14-230	New River Commerce Park	1999	--	--	--	--	0.00	0.00	0.00	3.62	5.79
03-14-231	Legacy Parc	1999	--	--	--	--	0.00	0.00	0.00	5.27	27.22
22-14-232	Palm Valley Phase II, Parcel 5	1999	--	--	--	--	0.00	1.67	4.40	9.20	11.51
12-14-254	Cantera Gates	1999	--	--	--	--	0.00	0.00	0.70	3.39	6.26
22-14-269	Palm Valley Parcel 17A & 17B	1999	--	--	--	--	0.00	0.24	15.25	32.30	38.89
26-14-234	Summit at Sunrise	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
22-14-275	PebbleCreek Units 26, 27, 28, 29, & 30	2000	--	--	--	--	--	0.03	5.25	19.00	70.28
01-14-279	EDC Estates	2000	--	--	--	--	--	0.00	1.70	1.87	1.96
03-14-289	Youngtown Gardens Condominiums	2000	--	--	--	--	--	0.00	0.00	3.81	5.08
22-14-292	Palm Valley Phase IIIB	2000	--	--	--	--	--	0.31	11.38	71.85	106.79
41-14-296	Buckeye Park	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
03-14-297	Surprise Farms 1A North	2000	--	--	--	--	--	0.00	0.00	0.00	11.67
03-14-298	Surprise Farms 1A South	2000	--	--	--	--	--	0.00	0.00	0.00	7.74
03-14-299	Surprise Farms 1B North	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
03-14-300	Surprise Farms 1B South	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
22-14-301	Dreaming Summit Units 2A&2B	2000	--	--	--	--	--	0.00	31.19	74.00	130.95
22-14-304	Pebble Creek Units 31-65	2000	--	--	--	--	--	0.00	0.00	297.55	321.32
03-14-305	Arizona Traditions Parcels XII & XIII	2000	--	--	--	--	--	0.00	0.46	3.44	12.63
42-14-313	Dreaming Summit Unit 1	2000	--	--	--	--	--	0.00	0.44	66.91	152.43
12-14-316	Hunter Field Estates	2000	--	--	--	--	--	0.00	11.50	1.50	1.00
22-14-317	Veranda	2000	--	--	--	--	--	0.00	2.08	29.01	41.33
23-14-329	Sonoran Ridge Estates Unit 1	2000	--	--	--	--	--	0.00	0.00	0.00	0.23
44-14-331	Ironwood Vista	2000	--	--	--	--	--	0.00	0.00	0.00	3.65
03-14-333	Happy Trails Resort No. 10	2000	--	--	--	--	--	0.00	0.00	3.10	6.20
45-14-334	99th Avenue & Southern	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
41-14-347	Sunset Point	2000	--	--	--	--	--	0.00	0.00	0.00	0.74
44-14-358	Parkside at Buckeye	2000	--	--	--	--	--	0.00	0.00	0.00	3.56
48-14-366	Southwest Desert Estates	2000	--	--	--	--	--	0.00	0.00	0.18	2.77
44-14-342	Norte Vista	2001	--	--	--	--	--	--	0.00	0.00	0.00
01-14-352	Camelback Garden Farms	2001	--	--	--	--	--	--	0.00	0.00	19.61
22-14-364/5	Wigwam Creek Par 1-12	2001	--	--	--	--	--	--	0.00	46.02	214.54
03-14-368	Russell Ranch	2001	--	--	--	--	--	--	0.00	0.00	1.80
03-14-370	Tash Property	2001	--	--	--	--	--	--	0.00	0.00	5.25

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CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)								
			1995	1996	1997	1998	1999	2000	2001	2002	2003
01-14-371	Blue Horizon Villages, Parcels 1-4	2001	--	--	--	--	--	--	0.00	0.00	0.00
41-14-372	Blue Hills	2001	--	--	--	--	--	--	0.00	0.00	0.00
41-14-373	Dove Cove	2001	--	--	--	--	--	--	0.00	0.00	0.00
01-14-374	Parkman Ranch	2001	--	--	--	--	--	--	0.00	0.00	0.00
01-14-376	Jackrabbit Trails	2001	--	--	--	--	--	--	0.00	0.00	0.00
41-41-386	Rancho Vista	2001	--	--	--	--	--	--	0.00	0.00	0.00
44-14-387	Terravista	2001	--	--	--	--	--	--	0.00	0.00	0.00
22-14-390	Palm Valley Phase II, Parcel 1	2001	--	--	--	--	--	--	0.00	0.65	49.00
22-14-391	Palm Valley Phase II, Parcel 6	2001	--	--	--	--	--	--	0.00	2.68	4.65
22-14-392	Palm Valley Phase II, Parcel 10	2001	--	--	--	--	--	--	0.16	10.68	23.65
22-14-395	Dreaming Summit Unit 3A,Par.1-5 & Unit 3B, Par. 1-3	2001	--	--	--	--	--	--	0.00	14.10	92.96
23-14-398	Sonoran Ridge Estates Unit 2	2001	--	--	--	--	--	--	0.00	0.00	0.34
03-14-400	Montana Farms II	2001	--	--	--	--	--	--	0.00	0.00	3.47
26-14-401	Camino De Oro Ranch	2001	--	--	--	--	--	--	0.00	0.02	0.90
00-14-403	Sarival Farms Phase I	2001	--	--	--	--	--	--	0.00	9.94	0.00
22-14-405	Wigwam Creek N. Phase 1	2001	--	--	--	--	--	--	0.00	15.84	83.37
22-14-409	The Village @ Litchfield Park, Phase I	2001	--	--	--	--	--	--	0.00	2.82	4.55
01-14-412	Wigwam Creek N. Phase 2	2001	--	--	--	--	--	--	0.00	0.00	7.87
48-14-414	Rainbow Valley Ranch	2001	--	--	--	--	--	--	0.00	0.00	0.12
01-14-415	Litchfield Farms IIA	2001	--	--	--	--	--	--	0.00	0.00	0.10
01-14-416	Litchfield Farms IIB	2001	--	--	--	--	--	--	0.00	0.00	16.58
11-14-421	Patton Place Estates	2001	--	--	--	--	--	--	0.00	0.00	5.44
44-14-423	Sundance Parcels 37B and 40	2001	--	--	--	--	--	--	0.00	0.00	28.67
42-14-424	Bethany Estates	2002	--	--	--	--	--	--	--	0.00	0.00
15-14-430	Fletcher Heights Parcel 21	2002	--	--	--	--	--	--	--	0.00	5.86
03-14-433	Arizona Traditions North Parcel XVI	2002	--	--	--	--	--	--	--	0.00	0.69
26-14-437	Starlight Canyon	2002	--	--	--	--	--	--	--	0.00	0.02
52-14-438	Sarival Farms Phase 2	2002	--	--	--	--	--	--	--	0.00	0.00
03-14-439	Sierra Montana	2002	--	--	--	--	--	--	--	0.00	3.73
44-14-440	Sundance Parcel 12	2002	--	--	--	--	--	--	--	0.00	0.00
44-14-440	Sundance Parcel 13	2002	--	--	--	--	--	--	--	0.00	0.02
44-14-440	Sundance Parcel 28A	2002	--	--	--	--	--	--	--	0.00	0.01
44-14-440	Sundance Parcel 29	2002	--	--	--	--	--	--	--	0.00	4.80
44-14-441	Sundance Parcel 37A	2002	--	--	--	--	--	--	--	0.00	0.00
22-14-443	Palm Valley Phase II, Parcel 2	2002	--	--	--	--	--	--	--	0.00	2.66
22-14-444	Palm Valley Phase II, Parcel 7	2002	--	--	--	--	--	--	--	0.00	0.00
22-14-445	Palm Valley Phase II, Parcel 24	2002	--	--	--	--	--	--	--	0.00	2.20
42-14-446	Dysart Ranch	2002	--	--	--	--	--	--	--	0.00	0.08
23-14-449	Sonoran Ridge Estates Unit 3	2002	--	--	--	--	--	--	--	0.00	0.00
11-14-450	Peak View Ranch	2002	--	--	--	--	--	--	--	0.00	0.00
44-14-451	Sundance Parcel 18	2002	--	--	--	--	--	--	--	0.00	0.16
44-14-451	Sundance Parcel 20	2002	--	--	--	--	--	--	--	0.00	0.70
44-14-451	Sundance Parcel 21	2002	--	--	--	--	--	--	--	0.00	9.20
44-14-452	Sundance Parcel 36	2002	--	--	--	--	--	--	--	0.00	6.48
41-14-454	Estrella Vista	2002	--	--	--	--	--	--	--	0.00	0.00
44-14-458	Sundance Parcel 2	2002	--	--	--	--	--	--	--	0.00	0.41
03-14-461	Phase 1, Pleasant Valley Country Club	2002	--	--	--	--	--	--	--	0.00	2.61
03-14-462	Arizona Traditions North Parcel XV	2002	--	--	--	--	--	--	--	0.00	0.00
22-14-463	Veranda II	2002	--	--	--	--	--	--	--	0.00	3.26

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			1995	1996	1997	1998	1999	2000	2001	2002	2003
44-14-464	Sundance Parcels 15 and 28B	2002	--	--	--	--	--	--	--	0.00	0.00
03-14-465	Agua Fria Ranch	2002	--	--	--	--	--	--	--	0.00	0.20
44-14-466	Sundance Parcels 14 and 24	2002	--	--	--	--	--	--	--	0.00	0.00
22-14-493	Wigwam Creek North Phase 2B	2002	--	--	--	--	--	--	--	0.00	0.00
03-14-459	Cottonwood Estates	2003	--	--	--	--	--	--	--	--	0.00
22-14-472	Colter Commons	2003	--	--	--	--	--	--	--	--	0.00
03-14-474	Verrado Parcel 4.601	2003	--	--	--	--	--	--	--	--	0.00
03-14-475	Verrado Parcel 4.602	2003	--	--	--	--	--	--	--	--	0.00
03-14-476	Verrado Parcel 4.603	2003	--	--	--	--	--	--	--	--	0.00
03-14-477	Verrado Parcel 4.604	2003	--	--	--	--	--	--	--	--	0.00
03-14-478	Verrado Parcel 4.605	2003	--	--	--	--	--	--	--	--	0.00
03-14-479	Verrado Parcel 4.606	2003	--	--	--	--	--	--	--	--	0.00
03-14-480	Verrado Parcel 4.607	2003	--	--	--	--	--	--	--	--	0.00
03-14-481	Verrado Parcel 4.608	2003	--	--	--	--	--	--	--	--	0.00
03-14-482	Verrado Parcel 4.609	2003	--	--	--	--	--	--	--	--	0.00
03-14-483	Verrado Parcel 4.610	2003	--	--	--	--	--	--	--	--	0.00
03-14-484	Verrado Parcel 4.611	2003	--	--	--	--	--	--	--	--	0.00
03-14-485	Verrado Parcel 4.612	2003	--	--	--	--	--	--	--	--	0.00
03-14-486	Verrado Parcel 4.613	2003	--	--	--	--	--	--	--	--	0.00
03-14-487	Verrado Parcel 4.614	2003	--	--	--	--	--	--	--	--	0.00
03-14-488	Verrado Parcel 4.615	2003	--	--	--	--	--	--	--	--	0.00
03-14-489	Verrado Parcel 5.702	2003	--	--	--	--	--	--	--	--	0.00
03-14-490	Verrado Parcel 5.703	2003	--	--	--	--	--	--	--	--	0.00
44-14-492	Sundance Parcel 31	2003	--	--	--	--	--	--	--	--	0.00
44-14-496	Sundance Parcel 28B	2003	--	--	--	--	--	--	--	--	0.00
41-14-498	Montana Vista	2003	--	--	--	--	--	--	--	--	0.00
44-14-499	Sundance Parcel 19	2003	--	--	--	--	--	--	--	--	0.00
44-14-500	Sundance Parcel 20A	2003	--	--	--	--	--	--	--	--	0.00
22-14-501	Goodyear Planned Regional Ctr, Prcls 9, 10 & 11	2003	--	--	--	--	--	--	--	--	0.00
11-14-502	Patton Place Estates, Unit III	2003	--	--	--	--	--	--	--	--	0.00
41-14-504	Riata West	2003	--	--	--	--	--	--	--	--	0.00
03-14-506	Sierra Montana Phase 2	2003	--	--	--	--	--	--	--	--	0.00
44-14-511	Sundance Parcel 16	2003	--	--	--	--	--	--	--	--	0.00
44-14-512	Sundance Parcel 17	2003	--	--	--	--	--	--	--	--	0.00
44-14-513	Sundance Parcel 22	2003	--	--	--	--	--	--	--	--	0.00
44-14-514	Sundance Parcel 23a	2003	--	--	--	--	--	--	--	--	0.00
44-14-515	Sundance Parcel 23b	2003	--	--	--	--	--	--	--	--	0.00
44-14-516	Sundance Parcel 25	2003	--	--	--	--	--	--	--	--	0.00
44-14-517	Sundance Parcel 26	2003	--	--	--	--	--	--	--	--	0.00
44-14-518	Sundance Parcel 27	2003	--	--	--	--	--	--	--	--	0.00
01-14-519	Vista de Montana	2003	--	--	--	--	--	--	--	--	0.00
57-14-520	Estates at Lakeside	2003	--	--	--	--	--	--	--	--	0.00
44-14-523	Sundance Parcel 41	2003	--	--	--	--	--	--	--	--	0.00
11-14-527	Patton Place Estates Unit IV	2003	--	--	--	--	--	--	--	--	0.00
11-14-528	Coyote Trails	2003	--	--	--	--	--	--	--	--	0.00
41-14-529	Miller Manor Phase 1	2003	--	--	--	--	--	--	--	--	0.00
03-14-531	Rancho Cabrillo-Parcels A, B, D & F	2003	--	--	--	--	--	--	--	--	0.00
03-14-533	Greer Ranch South	2003	--	--	--	--	--	--	--	--	0.00
44-14-534	Sundance Parcel 32	2003	--	--	--	--	--	--	--	--	0.00

TABLE B-4
Historic Parcel Replenishment Obligations
West Portion of the Phoenix AMA

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)								
			1995	1996	1997	1998	1999	2000	2001	2002	2003
44-14-535	Sundance Parcel 33	2003	--	--	--	--	--	--	--	--	0.00
44-14-536	Sundance Parcel 35	2003	--	--	--	--	--	--	--	--	0.00
44-14-538	Sundance Parcel 42	2003	--	--	--	--	--	--	--	--	0.00
03-14-539	The Villages at Sun City Grand Condominiums	2003	--	--	--	--	--	--	--	--	25.30
03-14-540	Verrado Parcel 5.801	2003	--	--	--	--	--	--	--	--	0.00
03-14-541	Verrado Parcel 5.804	2003	--	--	--	--	--	--	--	--	0.00
03-14-542	Bell Pointe I	2003	--	--	--	--	--	--	--	--	0.00
41-14-543	Sonoran Vista	2003	--	--	--	--	--	--	--	--	0.00
03-14-544	Verrado Parcel 5.803	2003	--	--	--	--	--	--	--	--	0.00
42-14-547	Luke Ranch Estates	2003	--	--	--	--	--	--	--	--	0.00
41-14-548	Sunset Pointe II	2003	--	--	--	--	--	--	--	--	0.00
03-14-550	Verrado Parcel 5.701	2003	--	--	--	--	--	--	--	--	0.00
44-14-553	Acacia Crossing	2003	--	--	--	--	--	--	--	--	0.00
03-14-555	Twelve Oaks Estates	2003	--	--	--	--	--	--	--	--	0.00
03-14-556	Tara Estates	2003	--	--	--	--	--	--	--	--	0.00
11-14-557	Patton Place Estates Unit V	2003	--	--	--	--	--	--	--	--	0.00
03-14-559	Verrado Parcel 4.624	2003	--	--	--	--	--	--	--	--	0.00
03-14-560	Verrado Parcel 5.704	2003	--	--	--	--	--	--	--	--	0.00
59-36-563	Tierra Linda Nueva	2003	--	--	--	--	--	--	--	--	0.00
44-14-564	Windmill Village	2003	--	--	--	--	--	--	--	--	0.00
03-14-565	Phase 2, Corte Bella Country Club	2003	--	--	--	--	--	--	--	--	0.00
03-14-572	Verrado Parcel 5.802	2003	--	--	--	--	--	--	--	--	0.00
41-14-576	Buckeye 320, Phase I	2003	--	--	--	--	--	--	--	--	0.00
22-14-578	The Village at Litchfield Park, Phase II, Parcel 6	2003	--	--	--	--	--	--	--	--	0.00
03-14-580	Savannah	2003	--	--	--	--	--	--	--	--	0.00
44-14-581	Sun City Festival, Phase I	2003	--	--	--	--	--	--	--	--	0.00
03-14-582	Canyon Ridge West Parcel 5	2003	--	--	--	--	--	--	--	--	0.00
03-14-583	Coldwater Ranch	2003	--	--	--	--	--	--	--	--	0.00
03-14-584	Arizona Traditions North Parcel XIV	2003	--	--	--	--	--	--	--	--	0.00
44-14-585	Sundance Parcel 38	2003	--	--	--	--	--	--	--	--	0.00
44-14-586	Sundance Parcel 45A	2003	--	--	--	--	--	--	--	--	0.00
42-14-587	Capistrano North	2003	--	--	--	--	--	--	--	--	0.00
42-14-588	Capistrano South	2003	--	--	--	--	--	--	--	--	0.00
Total			0.10	39.12	294.96	759.48	835.45	1105.46	1644.94	3018.73	4054.54

TABLE B-5
Historic Parcel Replenishment Obligations
East Portion of the Phoenix AMA

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)								
			1995	1996	1997	1998	1999	2000	2001	2002	2003
02-14-002	Ranchos Hacienda De Caballos, 1	1995		0.21		2.19	2.82	3.58	4.62	6.16	6.41
06-14-003	Estates North, Unit II	1996	--			0.11	0.82	2.89	4.10	5.36	6.69
02-14-006	Circle G at Queen Creek, Unit I	1996	--	0.08	1.33	2.85	6.24	9.89	12.15	16.00	17.09
01-14-007	Meridian Hills	1996	--			34.38	71.81	91.89	103.94	122.61	136.49
02-14-008	Crison Ranch Estates	1996	--	0.00	0.08	1.66	2.64	6.06	6.95	9.23	10.23
06-14-011	Apache Peak Ranch	1996	--	0.00	0.05	0.68	2.65	4.09	4.57	5.87	6.73
02-14-012	Ranchos Hacienda De Caballos, 2	1996	--			0.92	2.21	3.59	4.56	5.43	5.36
01-15-014	Superstition Highlands	1996	--			0.59	1.36	2.56	4.13	6.58	8.80
04-14-016	Lincoln at Tatum Subdivision	1996	--			0.15	1.56	3.97	5.62	6.33	7.10
01-15-017	Gold Canyon East	1996	--	0.00	3.97	9.40	17.14	21.92	21.26	23.95	24.45
04-14-019	Lincoln Place	1996	--	0.81	5.15	11.49	15.17	20.49	23.15	22.42	25.35
01-15-021	Mountainbrook Village Parcel II	1996	--	0.00	1.89	10.56	13.48	15.43	15.40	16.64	17.47
01-15-026	Renaissance Point, Prcl. 1, Phs. 1	1996	--	0.35	10.91	14.33	16.18	17.20	15.59	17.83	17.15
01-15-027	Renaissance Point, Prcl. 1, Phs. 2	1996	--	0.00	0.53	1.05	1.12	0.99	0.80	0.89	1.29
08-14-030	Tonto Verde Unit 4	1996	--	0.00	1.27	1.45	4.85	4.85	6.16	7.92	8.84
02-14-031	South Creek Ranch	1996	--	0.00	0.04	1.03	3.82	4.84	5.86	7.02	8.12
01-15-034	Renaissance Point, Parcel 2	1996	--	0.00	8.25	33.88	40.21	43.29	40.59	43.38	45.66
01-15-035	Broadway Homes	1996	--	0.07	0.88	0.94	1.04	1.17	1.08	1.24	1.89
02-14-039	Circle G at Queen Creek, Unit II	1996	--	0.00	0.12	2.40	5.45	9.88	14.57	17.95	19.57
01-15-057	Meridian Manor	1996	--	0.00	0.91	4.75	9.93	13.37	19.97	14.77	16.49
02-14-037	Orchard Ranchettes Phase I&2	1997	--	--		3.06	7.40	16.00	28.78	44.89	50.95
01-15-056	Vista Del Corazon	1997	--	--		0.00	0.49	1.47	1.53	5.30	6.78
02-14-059	San Marqui Estates	1997	--	--		0.00	0.54	3.44	10.02	19.99	25.09
01-15-060	Gold Canyon East Phs. 4, par.1-3	1997	--	--	0.00	0.09	1.64	6.32	12.03	18.95	22.40
25-15-070	Golf View Estates	1997	--	--	0.35	1.28	5.74	7.53	24.43	28.11	25.49
02-14-074	Circle G at Queen Creek Unit II A	1997	--	--	0.00	0.34	3.57	5.08	6.16	7.40	9.10
01-15-076	Foothills at Gold Canyon Ranch	1997	--	--		1.94	10.21	16.23	17.35	19.46	20.10
01-15-077	Parcel 24 E. at Gold Canyon Ran.	1997	--	--		0.20	4.73	14.30	20.15	22.85	27.15
01-15-084	Mountianbrook Village Prcl. 16A&17	1997	--	--	0.00	5.22	6.65	9.45	9.69	8.85	11.25
01-15-090	Sunrise Canyon	1997	--	--		9.61	52.52	100.57	111.11	119.15	122.34
01-15-092	Parcel 24 W. at Gold Canyon Ran.	1997	--	--		2.62	14.67	22.92	22.14	27.32	28.92
01-15-093	Parcel 22 W. at Gold Canyon Ran.	1997	--	--		0.00	3.71	6.81	10.66	13.07	14.95
02-14-094	Will Rogers Equestrian Ran. Unit 1-3	1997	--	--		0.16	2.66	8.09	11.17	17.22	20.23
25-15-096	Vinwood Estates	1997	--	--		0.00	3.03	4.22	15.20	23.37	28.42
01-15-100	Parcel 22 E. at Gold Canyon Ran.	1997	--	--		0.00	6.46	14.95	20.20	24.75	30.91
01-15-101	Parcel 25 N. at Gold Canton Ranch	1997	--	--		0.00	0.40	5.69	12.51	16.73	20.14
01-14-104	University East	1997	--	--		2.72	31.51	44.80	42.70	47.36	52.79
01-15-105	Renaissance Park	1997	--	--	0.00	1.06	19.02	30.83	33.09	35.49	37.89

TABLE B-5
Historic Parcel Replenishment Obligations
East Portion of the Phoenix AMA

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)								
			1995	1996	1997	1998	1999	2000	2001	2002	2003
08-14-106	Tonto Verde Unit 5	1997	--	--		0.27	2.73	2.44	3.27	3.54	3.73
01-15-108	Parcel 25 S. at Gold Canyon Ranch	1997	--	--		0.25	3.46	11.79	15.75	17.81	20.17
02-14-110	Queen Creek Ranchettes III	1997	--	--		0.17	0.98	4.43	9.75	13.75	20.05
01-15-119	Sunrise at Gold Canyon	1997	--	--		1.09	14.70	31.53	33.95	37.43	39.84
01-15-125	Acacia at Superstition Foothills	1997	--	--		0.00	0.05	0.60	2.47	3.56	4.78
02-14-102	Emans Estates	1998	--	--	--	0.03	0.71	1.37	2.62	4.75	5.09
01-15-109	Wilderness at Superstition Foothills	1998	--	--	--	0.02	0.63	1.70	3.59	4.09	6.29
01-15-114	Parcel 18 at Mountainbrook Village	1998	--	--	--	1.12	6.91	10.68	11.88	12.42	14.66
01-15-115	Parcel 19 at Mountainbrook Village	1998	--	--	--	1.32	5.96	16.23	23.38	29.21	36.63
01-15-116	Prcel 10,14B&14C at Mountainbrook	1998	--	--	--	0.96	8.45	14.57	16.76	19.92	21.58
01-15-120	Tesoro at Gold Canyon East	1998	--	--	--	0.00	0.00	0.02	0.75	3.87	5.74
01-15-124	Ponderosa at Superstition Foothills	1998	--	--	--	0.01	2.76	7.46	12.16	16.16	20.26
01-15-129	Ironwood Estates	1998	--	--	--	0.00	22.16	61.48	66.25	73.81	78.41
02-14-133	Roman Estates Phase I & II	1998	--	--	--	0.00	0.01	0.42	1.69	3.26	13.41
02-14-134	Arroyo De La Reina	1998	--	--	--	0.00	0.03	0.62	1.94	3.11	8.58
08-14-135	Rio Verde Estates	1998	--	--	--	0.00	0.13	0.48	0.73	1.04	1.16
01-14-137	Parkwood East	1998	--	--	--	0.00	35.28	69.62	78.74	81.30	86.17
01-14-138	Parkwood East II	1998	--	--	--	0.00	1.30	22.82	38.11	49.33	55.54
01-15-140	Ironwood Cove II	1998	--	--	--	0.02	4.06	8.51	8.64	9.26	10.74
02-14-141	Circle G at Queen Creek Unit III	1998	--	--	--	0.07	2.46	6.59	11.33	17.11	20.27
01-15-142	Vista Grande	1998	--	--	--	0.00	5.78	14.89	21.21	23.72	24.35
01-15-146	Wildflower Village @ Spstn Fthlls	1998	--	--	--	0.00	0.00	0.00	0.02	0.55	1.72
01-15-147	Pinyon Village @ Spstn Fthlls	1998	--	--	--	0.00	0.01	0.43	1.07	3.34	3.30
01-15-148	Greythorn Village @ Spstn Fthlls	1998	--	--	--	0.00	0.00	0.00	0.00	0.00	0.00
01-15-149	Juniper Village @ Spstn Fthlls	1998	--	--	--	0.00	0.07	0.83	3.03	4.94	7.72
33-15-151/158	Johnson Ranch 1,2,3A,3B,4A,4B,6,7	1998	--	--	--	0.00	3.07	13.70	--	--	--
01-15-159	Parcel 26-1A at Gold Canyon Ranch	1998	--	--	--	0.00	0.00	0.00	0.00	0.14	1.86
01-15-159	Parcel 26-2A at Gold Canyon Ranch	1998	--	--	--		0.00	0.82	14.09	11.26	14.38
01-15-159	Parcel 26B at Gold Canyon Ranch	1998	--	--	--		0.00	0.00	0.27	5.43	14.60
01-15-159	Parcel 26C at Gold Canyon Ranch	1998	--	--	--		0.00	0.26	3.93	9.77	13.31
01-15-163	Vista Point at Gold Canyon Ranch	1998	--	--	--	0.00	2.06	10.74	11.48	12.29	13.44
01-15-164	Aldea en la Colina del Cascabel	1998	--	--	--	0.00	0.00	0.00	7.19	6.96	1.80
01-15-166	Superior Highlands	1998	--	--	--	0.00	0.00	0.00	0.34	2.79	4.04
08-14-167	Tonto Verde Unit 6	1998	--	--	--	0.00	0.47	1.26	2.34	3.52	4.49
02-14-168	Queen Creek Ranch Estates	1998	--	--	--	0.00	0.20	1.42	1.83	3.01	7.39
02-14-172	Ranchos Paseo de Caballos	1998	--	--	--	0.00	0.00	0.00	0.00	0.00	0.00
01-15-176	Estates at Gold Canyon	1998	--	--	--	0.00	0.00	0.20	0.94	1.88	4.70
01-14-177	Camberley Place	1998	--	--	--	0.01	25.29	34.17	41.95	43.29	44.83

TABLE B-5
Historic Parcel Replenishment Obligations
East Portion of the Phoenix AMA

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)								
			1995	1996	1997	1998	1999	2000	2001	2002	2003
01-15-178	Sierra Vista at Gold Canyon Ranch	1998	--	--	--	0.00	0.00	0.94	3.65	15.30	19.01
01-15-181	Parcel 15 at Mountainbrook Village	1998	--	--	--	0.00	0.00	0.14	3.45	7.09	10.74
01-15-188	Mountain Whisper at Gold Canyon	1998	--	--	--	0.00	0.00	1.87	0.85	1.48	1.56
01-15-189	Cottonwood Village at Spstn Fthlls	1998	--	--	--	0.00	0.00	0.00	0.00	0.02	0.07
01-15-190	Sycamore Village at Spstn Fthlls	1998	--	--	--	0.00	0.00	0.15	1.70	2.00	2.79
25-14-193	Cloud Creek Ranch	1998	--	--	--	0.00	0.03	0.82	2.98	4.93	6.51
01-15-182	Quail Canyon	1999	--	--	--	--	0.00	0.02	0.05	0.33	1.20
06-14-191	Joy Ranch	1999	--	--	--	--	0.00	0.00	0.17	0.97	3.63
01-14-196	Adobe Estates	1999	--	--	--	--	0.00	0.13	6.44	19.81	39.06
01-15-198	Coyote Call	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.86
01-15-199	Purple Sage II	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
01-15-200	Purple Sage III	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
33-15-206	Wild Horse Estates	1999	--	--	--	--	0.00	0.00	--	--	--
01-15-207	Golden Eagle at Spstn Fthlls	1999	--	--	--	--	0.00	1.19	2.68	4.61	4.68
01-15-208	Parcel 12 at Spstn Fthlls	1999	--	--	--	--	0.00	0.01	1.06	2.32	3.52
34-14-209	H Bar H Estates	1999	--	--	--	--	0.00	0.00	0.32	9.08	14.61
08-14-210	Tonto Verde Unit Seven	1999	--	--	--	--	0.00	0.69	3.36	5.82	8.17
33-15-213	Johnson Ranch Lakeview Gardens	1999	--	--	--	--	0.00	0.00	--	--	--
02-14-214	Creek View Ranches	1999	--	--	--	--	0.11	1.33	2.47	5.59	5.93
02-14-215	Circle G at Queen Creek IV	1999	--	--	--	--	0.00	0.01	3.42	9.96	16.75
01-15-216	Sierra Entrada Garden Homes, Unit II	1999	--	--	--	--	0.00	0.00	0.17	0.65	1.58
01-15-219	Ranch 160	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
01-15-222	Falcon Village at Superstition Foothills	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
02-14-224	Orchard Ranchettes II, Phase A	1999	--	--	--	--	0.00	0.07	2.75	10.78	17.67
01-14-225	Signal Butte Manor	1999	--	--	--	--	1.50	23.29	30.11	31.73	35.26
35-14-228	Granite Mountain Ranch	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.07
36-15-233	Skyline Vista Ranch	1999	--	--	--	--	0.00	0.00	1.37	2.63	5.48
08-14-236	Verde Village	1999	--	--	--	--	0.00	0.03	0.07	0.20	0.92
01-15-238	Superstition Foothills, Parcel 23A	1999	--	--	--	--	0.00	0.00	0.01	0.33	3.31
01-15-239	Superstition Foothills, Parcel 23B	1999	--	--	--	--	0.00	0.00	0.49	3.22	4.01
01-15-240	Superstition Foothills, Parcel 27A	1999	--	--	--	--	0.00	0.00	1.14	5.23	13.35
01-15-241	Superstition Foothills, Parcel 27B	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.47
01-15-242	Superstition Foothills, Parcel 28A	1999	--	--	--	--	0.00	0.00	2.00	3.19	12.06
01-15-243	Superstition Foothills, Parcel 28B	1999	--	--	--	--	0.00	0.00	4.29	11.72	21.73
01-15-249	Hieroglyphic Trails	1999	--	--	--	--	0.00	0.00	0.27	0.12	0.00
38-14-250	Santan Vista, Phases 1,2, & 3	1999	--	--	--	--	0.00	1.14	3.06	4.74	18.13
01-14-251	Signal Butte Manor II	1999	--	--	--	--	0.00	0.00	25.33	61.58	65.34
02-14-255	Queenland Manor	1999	--	--	--	--	0.00	2.46	32.91	55.36	63.92

TABLE B-5
Historic Parcel Replenishment Obligations
East Portion of the Phoenix AMA

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)								
			1995	1996	1997	1998	1999	2000	2001	2002	2003
02-14-260	San Tan Vistas Ranch	1999	--	--	--	--	0.00	2.58	8.36	7.01	8.22
01-14-262	Merrill Ranch	1999	--	--	--	--	0.00	0.00	0.09	2.09	7.46
01-15-263	Peralta Preserve Units I,II, & III	1999	--	--	--	--	0.00	0.00	26.83	69.33	104.87
01-15-264	Estates at Superstition Mountain	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
08-14-267	Tonto Verde Unit 8	1999	--	--	--	--	0.00	0.61	2.17	3.10	3.35
02-14-201	Roman Estates Phase 4	2000	--	--	--	--	--	0.13	0.64	0.75	0.00
01-15-203	Peralta	2000	--	--	--	--	--	0.00	0.00	3.46	4.73
25-15-257	Cambria	2000	--	--	--	--	--	0.78	63.22	95.92	162.15
01-14-276	Superstition Heights	2000	--	--	--	--	--	0.00	6.44	19.04	22.90
01-14-277	Sagewood	2000	--	--	--	--	--	0.00	0.00	1.59	9.22
01-14-278	Sagewood II	2000	--	--	--	--	--	0.00	0.00	0.43	6.51
01-15-280	Apache Dream Townhomes	2000	--	--	--	--	--	0.00	0.00	0.00	1.25
01-15-283	Barkley Hill	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
02-14-287	Roman Estates Phase 3	2000	--	--	--	--	--	0.04	0.72	3.79	7.08
01-14-290	Silverwood Units I & II	2000	--	--	--	--	--	0.00	2.51	12.77	26.66
02-14-293	Roman Estates Phase 6	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
06-14-295	Softwinds Desert View Estates	2000	--	--	--	--	--	0.00	0.09	1.39	4.76
01-15-302	Lost Dutchman Gardens	2000	--	--	--	--	--	0.46	3.21	5.49	9.62
02-14-303	Country Park Estates	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
02-14-306	Sossaman Estates	2000	--	--	--	--	--	0.00	0.00	22.99	79.71
01-15-307	Lost Gold Estates Unit I	2000	--	--	--	--	--	0.00	0.00	2.28	5.64
01-15-308	Lost Gold Estates Unit II	2000	--	--	--	--	--	0.00	0.00	0.00	0.12
01-15-309	Lost Gold Estates Unit III	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
02-14-320	Ocotillo Heights	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
25-14-321	Rittenhouse Ranch on the Creek	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
02-14-322	Pegasus Airpark, Unit 1	2000	--	--	--	--	--	0.00	0.06	4.43	8.12
02-14-323	TerraRanch at Queen Creek	2000	--	--	--	--	--	0.00	0.46	6.50	6.20
01-15-324	Canyon View Estates at Superstition Foothills	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-15-325	Petroglyph Estates at Superstition Foothills	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
35-14-332	Rio Mountain Estates	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
06-14-335	Greer Ranch	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
02-14-337	Sonokai Ranch, The Equestrian	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
02-14-338	Sonokai Ranch, The Meadows	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
02-14-339	Sonokai Ranch, San Tan Vistas	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
08-14-340	Tonto Verde Unit Nine	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
02-14-345	Villages at Queen Creek - Phase 1	2000	--	--	--	--	--	0.00	0.01	7.24	68.81
01-14-357	Salerno Ranch	2000	--	--	--	--	--	0.00	0.00	0.06	19.81
02-14-336	Egyptian Valley Phases 1 & 2	2001	--	--	--	--	--	--	0.00	0.00	0.00

TABLE B-5
Historic Parcel Replenishment Obligations
East Portion of the Phoenix AMA

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)									
			1995	1996	1997	1998	1999	2000	2001	2002	2003	
02-14-351	Orchard Ranchettes II, Ph B,C&D	2001	--	--	--	--	--	--	--	3.15	5.27	23.09
36-15-362	Valley of the Sun Estates	2001	--	--	--	--	--	--	--	0.00	0.00	0.02
50-14-367	Judson Estates	2001	--	--	--	--	--	--	--	0.00	0.00	13.09
02-15-378	Goldmine Mountain	2001	--	--	--	--	--	--	--	0.04	11.77	25.69
01-14-381	Signal Butte Manor III	2001	--	--	--	--	--	--	--	0.00	3.81	17.16
35-14-385	Verde Estates	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
02-14-389	Citrus Cove	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
06-14-397	Apache Peak III	2001	--	--	--	--	--	--	--	0.00	0.00	0.05
25-15-408	Kenworthy & Ocotillo	2001	--	--	--	--	--	--	--	0.00	0.04	24.16
02-14-417	Cortina	2001	--	--	--	--	--	--	--	0.00	6.98	91.62
02-14-422	Estrella Vista	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
25-15-406	Castlegate	2002	--	--	--	--	--	--	--	--	0.00	5.74
02-14-413	The Pecans	2002	--	--	--	--	--	--	--	--	0.00	0.00
02-14-426	The Villages @ Queen Creek, Phase IIA	2002	--	--	--	--	--	--	--	--	0.00	0.60
01-15-429	Parcel 14A at Superstition Foothills	2002	--	--	--	--	--	--	--	--	0.00	0.12
01-14-442	Tonto Forest Estates	2002	--	--	--	--	--	--	--	--	0.00	0.00
02-15-455	Encanto Real, at San Tan Vistas	2002	--	--	--	--	--	--	--	--	0.00	0.00
04-14-457	Paradise View Villas Condominiums	2002	--	--	--	--	--	--	--	--	0.00	44.20
02-14-460	Emperor Estates Phase 1 and 2	2002	--	--	--	--	--	--	--	--	0.00	5.54
25-15-469	Pecan Creek North	2002	--	--	--	--	--	--	--	--	0.00	2.95
01-15-491	Parcel 21A at Superstition Foothills	2002	--	--	--	--	--	--	--	--	0.00	0.00
04-14-494	Sienna Condominiums	2002	--	--	--	--	--	--	--	--	0.00	27.50
25-15-369	The Links Estates Unit 2	2003	--	--	--	--	--	--	--	--	--	0.00
25-15-435	The Cottages at Castlegate Parcel 1 and Parcel 2	2003	--	--	--	--	--	--	--	--	--	1.72
25-15-436	The Villages at Castlegate	2003	--	--	--	--	--	--	--	--	--	1.27
25-14-473	The Villages at Queen Creek Phase II	2003	--	--	--	--	--	--	--	--	--	0.00
02-14-495	Orchard Ranchettes III, Phase A and B	2003	--	--	--	--	--	--	--	--	--	0.00
25-15-510	Vineyard Estates	2003	--	--	--	--	--	--	--	--	--	0.00
34-14-521	Brekanwood Estates	2003	--	--	--	--	--	--	--	--	--	109.22
02-14-522	Pegasus Airpark, Unit II	2003	--	--	--	--	--	--	--	--	--	0.00
01-15-524	Phase 1 at Entrada Del Oro	2003	--	--	--	--	--	--	--	--	--	0.00
02-14-532	Saddlewood	2003	--	--	--	--	--	--	--	--	--	0.00
02-15-545	Creekside Estates	2003	--	--	--	--	--	--	--	--	--	0.00
25-15-549	Wayne Ranch	2003	--	--	--	--	--	--	--	--	--	0.00
25-15-554	Meadow Vista	2003	--	--	--	--	--	--	--	--	--	0.00
01-15-558	Sierra Entrada Garden Homes	2003	--	--	--	--	--	--	--	--	--	0.00
02-14-561	Victoria Phase 2, Parcel 1	2003	--	--	--	--	--	--	--	--	--	0.00
02-14-566	Montelena	2003	--	--	--	--	--	--	--	--	--	0.00

TABLE B-5
Historic Parcel Replenishment Obligations
East Portion of the Phoenix AMA

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)									
			1995	1996	1997	1998	1999	2000	2001	2002	2003	
01-15-570	Parcel 16 at Superstition Foothills	2003	--	--	--	--	--	--	--	--	--	0.00
02-14-579	Langley Gateway Estates Unit II	2003	--	--	--	--	--	--	--	--	--	0.00
Total			0.00	1.52	35.72	168.44	546.81	991.62	1432.01	1973.78	2944.43	

TABLE B-6
Historic Parcel Replenishment Obligations
Pinal AMA

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)								
			1995	1996	1997	1998	1999	2000	2001	2002	2003
01-25-022	Casa De Ensueno	1996	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-25-064	Desert Views, Unit 1	1997	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-25-082	Val Vista Estates	1997	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-25-091	Desert Sky Ranch, Unit III, Phase I	1997	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-25-103	Quail Run at Coyote Ranch	1997	--	--	0.00	0.00	0.00	15.66	24.80	10.77	12.00
01-25-111	Ridge at Black Butte, The	1997	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-25-131	Saguaro Estates	1998	--	--	--	0.00	0.00	0.00	0.00	0.00	0.00
01-25-132	Echeverria Estates	1998	--	--	--	0.00	0.00	0.00	0.00	0.00	0.00
01-25-144	Casa Mirage	1998	--	--	--	0.00	0.00	0.00	3.30	4.76	6.62
01-25-145	Pebble Trail	1998	--	--	--	0.00	0.00	12.69	22.36	34.15	19.45
01-25-165	Santa Rosa	1998	--	--	--	0.00	0.00	0.00	0.00	0.00	0.00
01-25-197	Casa Grande Medical Campus	1999	--	--	--	--	0.00	0.00	0.13	0.22	0.32
01-25-221	Coolidge Country Village Estates	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
01-25-226	NorthView Estates	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
01-25-235	Rancho Palo Verde Estates	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
01-25-259	Mesquite Tree Ranch	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
01-25-261	Desert Views Unit 2	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
01-25-266	Smoke Tree 1C	1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
01-25-270	Pebble Trail Units 3,4 & 5	1999	--	--	--	--		0.00	0.00	0.00	0.00
01-25-271	Cornerstone	1999	--	--	--	--		0.00	0.00	3.88	1.05
01-25-237	Tierra Rica Estates	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-265	Acacia Landing	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-272	Manor Vista	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-273	McCartney Ranch	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-274	Sunland Ranches	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-284	Gadsden Greens	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-285	Ironwood Commons	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-286	Silverhawk	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-288	Sonoran Heights	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-291	Lancaster Estates	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-310	Ironwood Village	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-311	Park Homes	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-314	Cottonwood Ranch	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-315	Weaver Ranch	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
43-25-318	Sun Lakes Casa Grande	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-328	Black Mountain Estates	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-346	Valley Vista Estates	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-353	Garrett Estates	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-355	Mountain View Ranch, Parcels B-H	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-356	Kenilworth Gardens	2000	--	--	--	--	--	0.00	0.00	0.00	0.00
01-25-326	Cottonwood Village	2001	--	--	--	--	--	--	0.00	0.00	0.00
01-25-327	Trekell Estates	2001	--	--	--	--	--	--	0.00	0.00	0.00
01-25-348	Carter Ranch	2001	--	--	--	--	--	--	0.00	0.00	0.00

**TABLE B-6
Historic Parcel Replenishment Obligations
Pinal AMA**

CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)									
			1995	1996	1997	1998	1999	2000	2001	2002	2003	
01-25-359	Safeway	2001	--	--	--	--	--	--	--	10.55	12.06	13.15
01-25-360	McCartney Center	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
01-25-361	Chaparral Estates	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
01-25-375	Desert Sky Ranch Unit II and IV	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
01-25-380	Jardines de Esperanzas	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
01-25-388	Highland Manor	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
01-25-404	Bel Aire Estates	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
01-25-407	Hacienda Palo Verde	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
01-25-411	Arroyo Grande	2001	--	--	--	--	--	--	--	0.00	0.00	0.00
01-25-419	Wildwood	2002	--	--	--	--	--	--	--	--	0.00	0.00
01-25-427	Mandalay Ranch	2002	--	--	--	--	--	--	--	--	0.00	0.00
01-25-428	Desert Crossing	2002	--	--	--	--	--	--	--	--	0.00	0.00
01-25-432	Cota Ranch	2002	--	--	--	--	--	--	--	--	0.00	0.00
42-25-448	McCartney Estates	2002	--	--	--	--	--	--	--	--	0.00	0.00
01-25-471	Sunset View Units 1 & 2	2002	--	--	--	--	--	--	--	--	0.00	0.00
01-25-402	Mission Royale Parcels A, H, I & Golf Tracts F, H, J	2003	--	--	--	--	--	--	--	--	--	0.00
01-25-497	Sunrise at Wildhorse	2003	--	--	--	--	--	--	--	--	--	0.00
01-25-552	Landmark Ranch - Phase 1	2003	--	--	--	--	--	--	--	--	--	0.00
01-25-568	Saddle Creek Ranch	2003	--	--	--	--	--	--	--	--	--	0.00
61-25-569	Montana del Sol	2003	--	--	--	--	--	--	--	--	--	0.00
01-25-574	Mission Ranch	2003	--	--	--	--	--	--	--	--	--	0.00
Total			0.00	0.00	0.00	0.00	0.00	0.00	28.35	61.14	65.84	52.59

**TABLE B-7
Historic Parcel Replenishment Obligations
Tucson AMA**

CAGR Number	SUBDIVISION	Enrlmnt Year	Replenishment Obligation by Report Year(AF)								
			1995	1996	1997	1998	1999	2000	2001	2002	2003
10-36-004	Mountain Cove Estates, Lots 1-18	1995	0	0.059	0.22	0.353	0.6	0.8	1.53	1.98	2.72
09-36-005	Garden of Eden, Lots 1-18	1995	0	0.001	0.034	0.042	0.24	0.69	0.91	1.2	1.61
07-36-013	Las Campanas, Block K	1996	--	0.085	1.066	1.863	2.78	3.99	2.48	4.85	4.99
05-36-023	Madera Foothills Estates, Lots 1-25	1996	--			0.051	0.28	0.48	1.23	1.92	2.03
07-36-024	Las Campanas, Block G	1996	--	0.003	0.321	1.076	1.77	2.853	2.69	4.69	5.05
05-36-028	Madera Reserve, Lots 131-263 & Exp.	1996	--			0.009	0.4	1.77	3.25	5.69	7.38
19-36-040	Voyager Homes Phase B	1996	--	0	0.13	0.5	1	1.53	2.01	2.32	5.56
13-36-044	San Ignacio Villas	1996	--	2	0.7246	2.08	2.54	2.72	2.68	3.31	3.36
13-36-049	San Ignacio Vistas II, 71-92, 119-128	1996	--	1.992	0.005	0.427	0.71	1.39	1.49	1.54	1.59
21-36-046	Tucson Avra West, Lots 1-168	1997	--	--	0.085	1.076	1.89	3.41	5.14	7.73	7.57
05-36-063	Greens at Santa Rita Springs, 168-214	1997	--	--	0.103	1.927	2.77	3.46	3.96	5.08	5.12
27-36-078	Silver Moon Estates	1997	--	--		0	0	0	0.15	0.97	2.2
28-36-079	Forty Niners Country Club Estates II	1997	--	--		0.015	0.63	1.42	2.59	3.87	2.37
05-36-080	Links at Santa Rita Springs	1997	--	--		0.107	1.26	3.03	4.48	5.79	6.13
13-36-083	San Ignacio Heights Resub	1997	--	--	0	0.23	0.21	0.3	0.38	0.53	0
13-36-085	San Ignacio Vistas II, Lots 1-70, 117-118	1997	--	--	0.032	0.61	1.19	1.94	3.32	3.83	4.31
07-36-086	Duval Commerce Park	1997	--	--		0	0	0	0.32	0.69	0.37
01-35-087	Coronado Ridge	1997	--	--		0	0	0	0	0	0
07-36-099	La Joya Verde II	1997	--	--		0.094	0.29	0.41	0.77	0.69	0.8
09-36-107	Twin Lakes Subdivision, Lots 232-254	1997	--	--		0.399	1.09	1.34	1.68	2.16	2.41
05-36-113	Springs II at Santa Rita	1997	--	--		0.062	1.65	2.53	3.37	4.49	4.29
13-36-117	San Ignacio Vistas II, Phase 2,	1997	--	--	0	0.05	1.03	2.44	4.42	6.25	7.4
07-36-118	Las Campanas, Block G-2	1997	--	--		0.019	0.62	2.11	3.95	5.11	5.88
05-36-122	Greens at Santa Rita Springs, 226-234	1997	--	--		0.143	0.43	0.6	0.73	0.89	0.87
19-36-123	Voyager Homes Phase C	1997	--	--		0	0.05	0.59	1.41	2.39	5.51
27-36-126	Desert Vista Estates	1997	--	--		0.02	0.24	1.52	3.01	2.99	3.52
31-36-127	Roger Square Townhomes	1997	--	--	0.026	0.021	0	0.23	0.23	0.31	0.46
32-36-128	Colonias La Canada, Lots 83-219	1998	--	--	--	0.008	0.65	2.16	5.09	7.91	10.97
05-36-143	Presidio at Santa Rita Springs	1998	--	--	--	0	0.3	1.6	3.61	5.51	7.41
37-36-248	Coyote Creek	1999	--	--	--	--	0	0.01	0.45	1.23	2.71
07-36-252	Paseo Tierra Townhomes	1999	--	--	--	--	0	0	0	0	0
13-36-256	Canoa Northwest Lots 1-167	1999	--	--	--	--	0	0.47	4.77	8.17	12.23
05-36-258	Parcel E at Santa Rita Springs	1999	--	--	--	--	0	0.35	0.81	1.82	2.53
07-36-268	Las Campanas Block H	1999	--	--	--	--	0	1.09	2.78	4.6	
39-36-282	Mountain Creek Ranch	2000	--	--	--	--	--	0	0	0	0.07
01-35-294	SaddleBrooke Ranch	2000	--	--	--	--	--	0	0	0	0
13-36-312	Canoa Northwest Lots 167-329, CAs A,B,&C	2000	--	--	--	--	--	0	0	0.09	2.67
31-36-330	Sagewood	2000	--	--	--	--	--	0	0.3	2.01	3.26
07-36-343	Santo Tomas Villas	2000	--	--	--	--	--	0	0	0	0
46-36-344	Tucson Mountain Ranch	2000	--	--	--	--	--	0	0.38	2.57	3.46
07-36-349	Las Campanas Village, Block M, w half of Block N	2000	--	--	--	--	--	0	0.01	5.55	8.8
05-36-350	Pasadera	2000	--	--	--	--	--	0	0	0.31	1.09
05-36-341	La Posada II	2001	--	--	--	--	--	--	0	2.55	3.18
47-35-354	Eagle Crest Ranch	2001	--	--	--	--	--	--	0	34.02	5.78
46-36-377	Tucson Mountain Ranch - Lots 51-182	2001	--	--	--	--	--	--	0	0	0.08
09-35-383	SaddleBrooke Unit 21	2001	--	--	--	--	--	--	0	0	4.6

TABLE B-7
Historic Parcel Replenishment Obligations
Tucson AMA

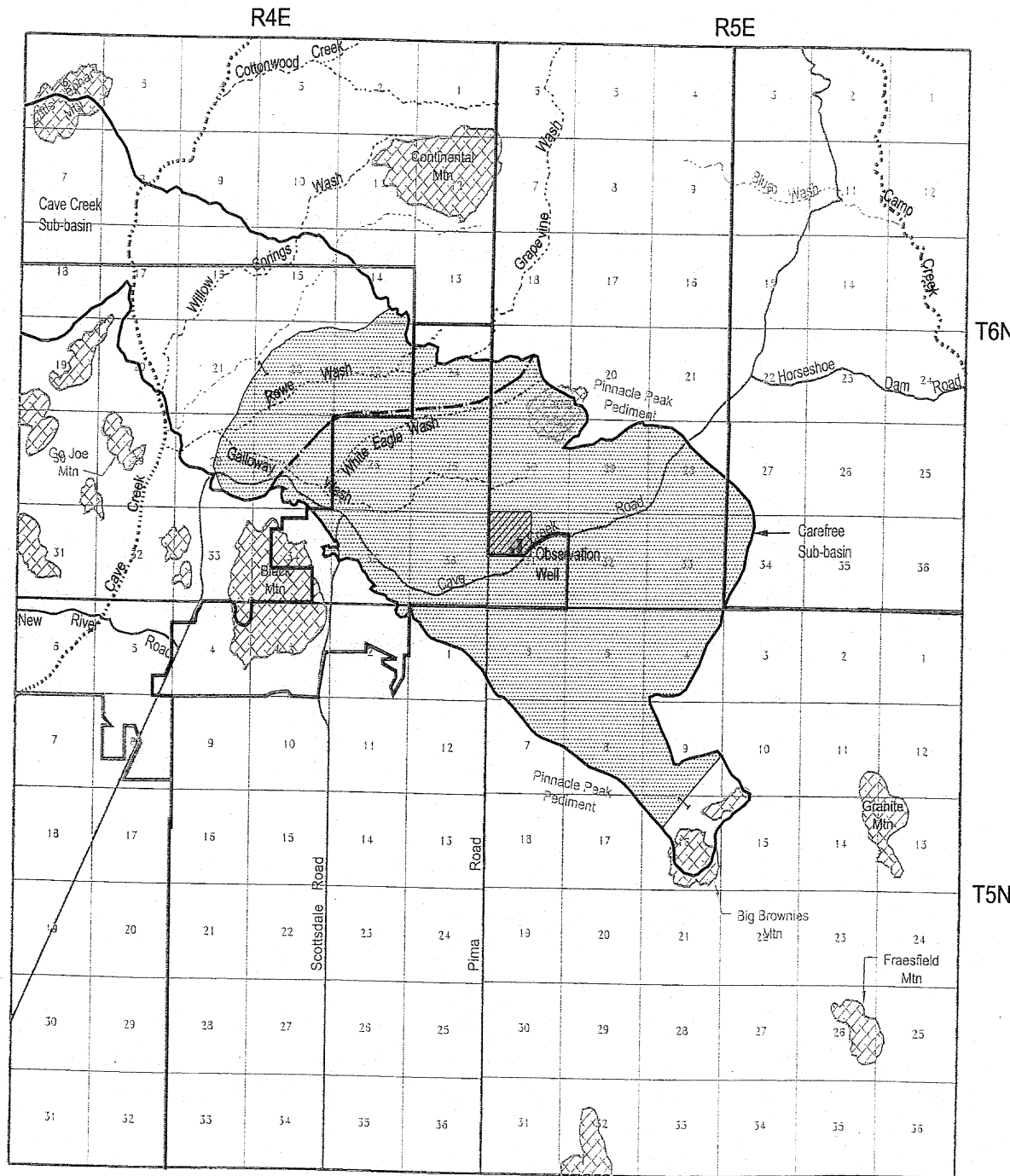
CAGR Number	SUBDIVISION	Enrlmt Year	Replenishment Obligation by Report Year(AF)									
			1995	1996	1997	1998	1999	2000	2001	2002	2003	
05-36-384	Madera Foothills Estates, Lots 26-67 & CA A&B	2001	--	--	--	--	--	--	--	0	0	0.2
51-35-393	SaddleBrooke Units 42-45	2001	--	--	--	--	--	--	--	0	10.08	34.67
37-36-394	Rincon Trails	2001	--	--	--	--	--	--	--	0	0	0.71
19-36-396	Voyager Homes, Phs D, Lots 232-289 & CA A&B	2001	--	--	--	--	--	--	--	0	0.11	0.94
09-35-410	SaddleBrooke Units 46-50	2001	--	--	--	--	--	--	--	0	0	0
07-36-382	Las Campanas Block F, Lots 1-93 & CA A&B	2002	--	--	--	--	--	--	--	--	0	0.56
46-36-431	Eagle Point Estates	2002	--	--	--	--	--	--	--	--	0	0
10-36-434	Canyon Ranch Estates II	2002	--	--	--	--	--	--	--	--	0	0
54-35-447	Quail Creek Phase II	2002	--	--	--	--	--	--	--	--	0	0
56-36-453	Black Horse	2002	--	--	--	--	--	--	--	--	0	0.1
27-36-456	Desert Vista Terrace	2002	--	--	--	--	--	--	--	--	0	0.13
37-36-467	Whisper Ranch	2002	--	--	--	--	--	--	--	--	0	0
53-36-418	Avra Vista, Phase 1	2003	--	--	--	--	--	--	--	--	--	0
07-36-468	Los Arroyos Del Este	2003	--	--	--	--	--	--	--	--	--	0
27-36-470	Drexel Manor	2003	--	--	--	--	--	--	--	--	--	0
13-36-503	Canoa Ranch Block 21, Lots 1-60 and CAs A&B	2003	--	--	--	--	--	--	--	--	--	0.08
37-36-505	Spanish Trail Estates	2003	--	--	--	--	--	--	--	--	--	0
13-36-507	Canoa Ranch Blocks 19 & 20, Lots 61-160, A & B	2003	--	--	--	--	--	--	--	--	--	0
07-36-508	La Joya Verde III, Lots 1-226	2003	--	--	--	--	--	--	--	--	--	0
13-36-509	Canoa Ranch Block 11, Lots 161-177, and CA A	2003	--	--	--	--	--	--	--	--	--	0
05-36-525	The Estates at Madera Highlands	2003	--	--	--	--	--	--	--	--	--	0
13-36-526	Canoa Ranch Block 28	2003	--	--	--	--	--	--	--	--	--	0
46-36-530	Sonoran Ranch Estates	2003	--	--	--	--	--	--	--	--	--	0
46-36-537	Sonoran Ranch Villages	2003	--	--	--	--	--	--	--	--	--	0
32-36-546	Estates at La Cañada Norte, Lots 1-41	2003	--	--	--	--	--	--	--	--	--	0
58-36-551	The Estates at Tortolita Preserve	2003	--	--	--	--	--	--	--	--	--	0
37-36-573	Rancho Loma Alta	2003	--	--	--	--	--	--	--	--	--	0
05-36-577	De Anza Links	2003	--	--	--	--	--	--	--	--	--	0
Total			0.00	4.14	2.75	11.18	24.62	46.14	74.69	165.98	204.33	











TABLE B-8
Historic Service Area Replenishment Obligations

Member Service Area		Cnty	AMA	Enrollment Date	Replenishment Obligation in Acre-feet (by Report Year)								
					1995	1996	1997	1998	1999	2000	2001	2002	2003
1	Vail Water Company	Pima	Tucson	11/20/1995	0.00	0.00	0.00	0.00	7.00	16.00	39.00	60.00	102.00
2	Marana	Pima	Tucson	12/12/1995	0.00	0.00	0.00	0.00	15.32	28.36	58.70	86.42	63.82
3	Metropolitan Domestic Water Improvement District	Pima	Tucson	12/13/1995	0.00	0.00	0.00	0.00	198.00	149.70	292.00	375.30	116.60
4	Apache Junction WUCFD	Mar	East Phx	2/15/1996	--	0.00	0.00	0.00	82.00	176.00	0.00	411.84	472.42
5	Tucson	Pima	Tucson	12/19/1996	--	0.00	0.00	0.00	0.00	0.00	5,000.00	5,000.00	5,000.00
6	Oro Valley	Pima	Tucson	3/18/1997	--	0.00	0.00	0.00	265.97	593.00	878.00	1,304.82	1,739.56
7	Peoria	Mar	West Phx	9/16/1997	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Spanish Trail Water Company	Pima	Tucson	12/14/1997	--	--	4.23	3.59	4.61	8.72	12.67	19.26	25.83
9	Avondale	Mar	West Phx	1/16/1998	--	--	--	0.00	0.00	0.00	65.00	0.00	0.00
10	Surprise	Mar	West Phx	7/21/1998	--	--	--	0.00	30.69	100.09	1,332.20	1,061.26	1,514.51
11	Florence	Pinal	Pinal	1/11/1999	--	--	--	--	0.00	0.00	0.00	0.00	0.00
12	Rancho Sahuarita Water Company	Pima	Tucson	7/26/1999	--	--	--	--	0.96	14.40	18.00	29.26	73.90
13	El Mirage	Mar	West Phx	8/23/1999	--	--	--	--	185.57	604.32	732.79	1,101.18	1,528.16
14	Eloy	Pinal	Pinal	2/3/2000	--	--	--	--	--	0.00	0.00	0.00	0.00
15	Johnson Utilities, LLC	Pinal	East Phx	5/18/2000	--	--	--	--	--	395.02	1,330.80	1,236.39	654.78
16	City of Goodyear	Mar	West Phx	10/4/2001	--	--	--	--	--	--	123.04	2.17	183.35
17	City of Scottsdale *	Mar	East Phx	11/21/2001	--	--	--	--	--	--	0.00	0.00	0.00
18	Copper Mountain Ranch WUCFD	Pinal	Pinal	6/20/2002	--	--	--	--	--	--	--	0.00	0.00
19	Santa Rosa Water Company	Pinal	Pinal	12/5/2002	--	--	--	--	--	--	--	0.00	0.00
Total Service Area Replenishment Obligations - West Portion of the Phoenix AMA					0.00	0.00	0.00	0.00	216.26	704.41	2,253.03	2,164.61	3,226.02
Total Service Area Replenishment Obligations - East Portion of the Phoenix AMA					0.00	0.00	0.00	0.00	82.00	571.02	1,330.80	1,648.23	1,127.20
Total Service Area Replenishment Obligations - Pinal AMA					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Service Area Replenishment Obligations - Tucson AMA					0.00	0.00	4.23	3.59	491.86	810.18	6,298.37	6,875.06	7,121.71
Total					0.00	0.00	4.23	3.59	790.12	2,085.61	9,882.20	10,687.90	11,474.93

* These figures do not include Scottsdale's Contract Replenishment Obligations

FIGURE B-1



-  Carefree Basin Boundary (not congruent with AMA Sub-basin boundary)
-  Sub-basin Boundary
-  Roads
-  IWDs Storage and Recovery Facility
-  Washes
-  Town of Cave-Creek
-  Town of Carefree
-  City of Scottsdale Incorporated Boundary
-  Area of replenishment
-  Outcropping

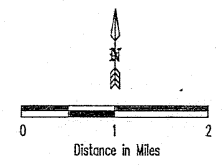





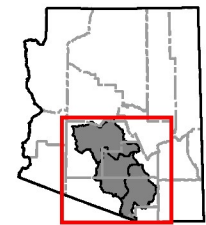
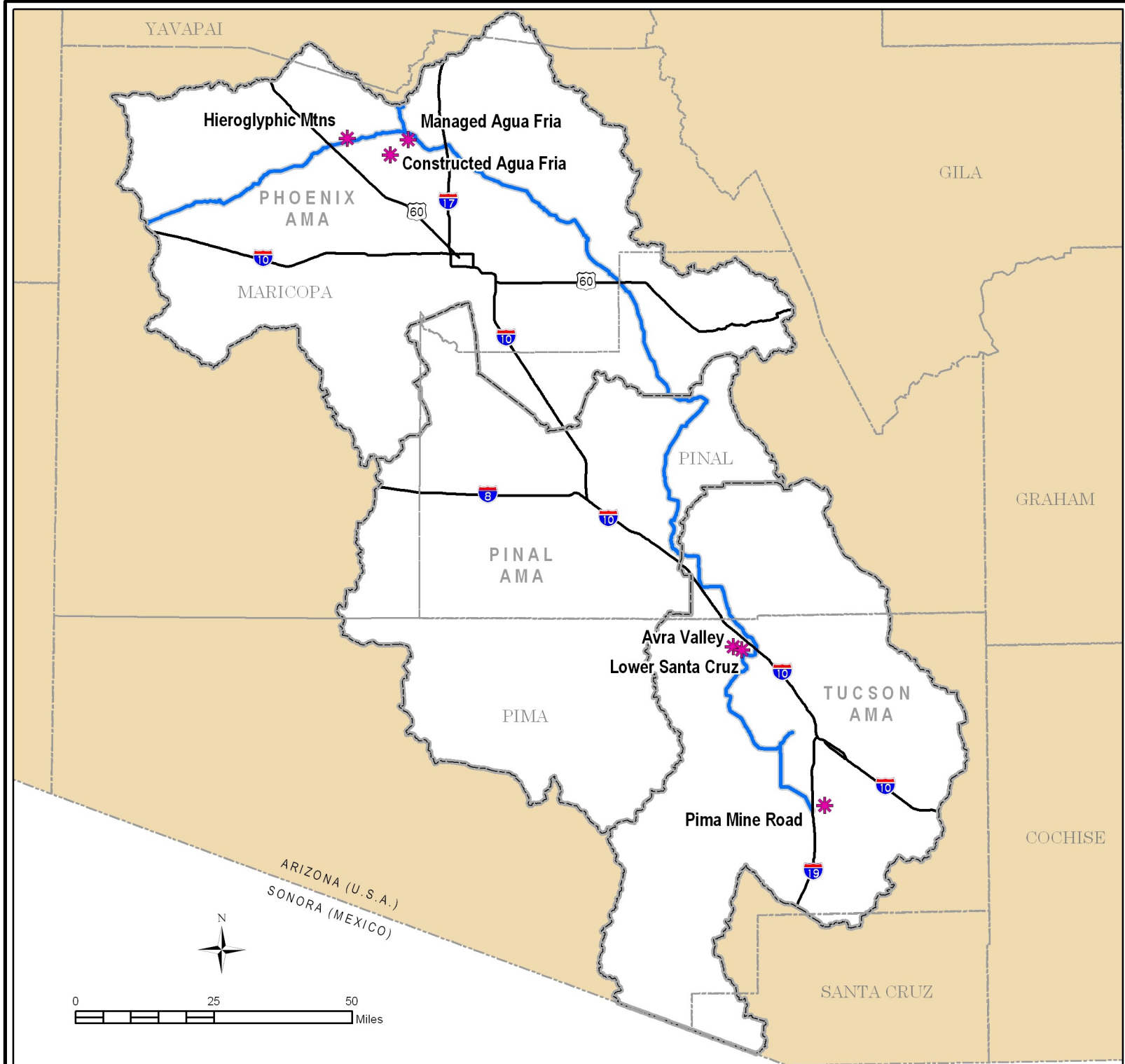


Exhibit A

Figure B-2

**Location of
CAWCD State
Demonstration
Recharge
Facilities**

-  CAWCD Recharge Facilities
-  CAP Canal
-  AMA Boundary
-  County Boundary
-  Major Highways



Map Area in Red



APPENDIX C

DATA TABLES REGARDING OUTLOOK 2003 STUDY

- Table C-1 - Estimated Demand by Water Provider
- Table C-2 - Estimated Demand Excluding Pre-95 Subdivisions by Member Land Water Providers
- Table C-3 - Projected Delivery Schedule for CAP M&I Water
- Table C-4 - Estimated Groundwater Demand by Water Provider
- Table C-5 - Projection of Constructed Member Land Housing Units

- Text - Description of Review of Original Outlook Results

**TABLE C-1
Estimated Demand by Water Provider**

Provider Name	Division	Type	Total Demand (AF/YR)						
			AF 2005	AF 2010	AF 2015	AF 2020	AF 2025	AF 2030	AF 2035
Allenville Water Company		Future ML	29	44	81	117	125	135	142
Arivaca Townsite Co-op Water Company		Future ML	13	13	13	13	13	13	13
Arizona Water Company	Stanfield	Future ML	289	462	510	558	749	808	862
Arizona-American Water Company	Sun City West	Future ML	5,846	6,065	6,287	6,508	6,508	6,515	6,543
Avra Water Corporation		Future ML	590	612	637	663	689	715	740
Berneil Water Company		Future ML	825	842	843	845	845	845	845
Carefree Valley Water Company		Future ML	0	0	1	1	1	1	1
Carter Water Company		Future ML	0	0	1	1	1	2	2
Casa Grande West Water Company		Future ML	107	107	108	110	112	113	123
Cave Creek Water Company		Future ML	718	807	849	887	1,186	1,423	1,426
Chaparral Water Company		Future ML	242	351	352	352	436	446	657
Circle City Water Company		Future ML	76	152	163	173	177	187	192
Despoblado Water Company		Future ML	0	0	0	0	0	0	0
Dome Well Corporation		Future ML	0	0	0	0	1	1	1
E & T Water Company		Future ML	51	52	53	54	55	56	57
Golden Corridor Water Company		Future ML	35	67	109	150	164	179	187
Grandview Water Company		Future ML	11	11	11	11	11	11	11
Hacienda Acres Water System		Future ML	18	18	18	18	20	20	24
Halcyon Acres Water Company		Future ML	31	32	34	36	38	40	42
Hassayampa Water Co-op		Future ML	5	5	5	5	5	5	5
Homeowners Coop		Future ML	1	3	6	8	11	14	16
Isadore Water		Future ML	3	3	3	3	4	4	4
James Esposito		Future ML	10	10	11	11	11	12	12
La Casita Water Company		Future ML	18	18	19	20	20	21	21
Lake Pleasant Water Company		Future ML	0	0	0	0	160	161	162
Lazy C Water Service		Future ML	4	4	7	9	11	13	15
Loeffler Lane Homeowners Assoc		Future ML	7	7	7	7	8	8	8
Lyn Lee		Future ML	8	8	9	11	12	13	14
Mesaland Water Company		Future ML	31	33	35	36	38	40	42
Mirabell Water Company		Future ML	3	3	3	3	4	4	4
Mobile Water Company		Future ML	26	26	64	101	179	243	1,350
Mountain Pass Utility Company		Future ML	18	35	54	72	90	108	126
Mt. Lemmon Cooperative Water Company		Future ML	88	88	88	88	88	88	88
Orchid Valley MWP		Future ML	0	0	0	1	1	2	2
Park Water Company		Future ML	5	5	5	5	5	5	5
Picacho Water Improvement Corporation		Future ML	25	25	25	25	25	25	25
Pinal Water Company		Future ML	16	22	33	43	55	61	66
Rancho Del Conejo Water Community Co-op		Future ML	68	68	69	70	71	72	72
Red Rock Water Corporation		Future ML	2	2	2	2	2	2	2
Rigby Water Company		Future ML	144	173	305	438	529	562	562
Rillito Water Users		Future ML	26	29	33	36	40	43	47
Rincon Creek Water Company		Future ML	3	6	11	16	21	27	32
Rincon Ranch Water Company		Future ML	43	43	44	46	47	48	49
Sahuarita Village Water Company		Future ML	16	22	29	35	41	48	54
Sandario Water Company		Future ML	54	54	55	55	56	56	57
Santa Cruz Water Company		Future ML	101	200	267	334	483	529	531
Sasabe Water Company		Future ML	1	1	1	1	1	1	1
Silverbell IDD		Future ML	7	7	7	7	7	7	7
South Mountain Water Company		Future ML	23	23	25	26	30	31	44
South Rainbow Valley Water Co-op		Future ML	1	1	7	12	13	13	13

TABLE C-1
Estimated Demand by Water Provider

Provider Name	Division	Type	Total Demand (AF/YR)						
			AF 2005	AF 2010	AF 2015	AF 2020	AF 2025	AF 2030	AF 2035
Spring Branch Water Company		Future ML	0	0	0	0	1	1	1
Sun Valley Farms Unit VI Water Company		Future ML	44	61	90	119	119	119	119
Sunburst Farms Mutual Water & Ag Company		Future ML	105	105	105	105	105	105	105
Sunland Water Company		Future ML	0	0	0	0	0	0	0
Thim Utility Company		Future ML	66	66	68	69	70	71	73
Thim Water Corporation		Future ML	0	0	0	0	0	0	0
Thunderbird Farms Improvement District		Future ML	249	264	265	265	265	265	292
Thunderhead Water Company		Future ML	4	6	9	11	14	17	20
Tonto Hills Utility Company		Future ML	51	53	53	53	53	53	53
Town of Carefree		Future ML	827	954	1,068	1,179	1,179	1,197	1,206
Twin Hawks Utility, Inc.		Future ML	4	4	4	4	4	4	4
United Utilities Cactus Forest		Future ML	13	13	13	13	13	13	13
Valley View Water Company		Future ML	7	7	8	9	15	16	23
Viva Development Corporation		Future ML	13	27	41	55	70	84	98
West End Water Company		Future ML	166	179	640	1,099	1,465	1,848	2,079
West Phoenix Water Company		Future ML	17	19	19	19	19	19	57
Wilhoit Water Company		Future ML	65	130	189	247	247	250	250
Winterhaven Water Company		Future ML	228	228	228	229	229	229	229
Worden Water Company		Future ML	2	2	2	2	2	2	2
Adaman Mutual Water Company		ML	223	235	241	247	247	247	247
Anway Manville L.L.C.		ML	58	60	60	60	60	60	60
Arizona Water Company	Apache Junction	ML	8,014	9,474	11,714	13,933	15,441	16,523	16,872
Arizona Water Company	Casa Grande	ML	10,420	11,984	12,879	14,041	16,682	17,835	22,362
Arizona Water Company	Coolidge	ML	1,658	1,915	1,968	2,004	2,121	2,220	2,293
Arizona Water Company	Oracle	ML	545	1,327	1,995	2,049	2,087	2,125	2,163
Arizona Water Company	Superior	ML	651	892	1,729	2,563	3,685	4,259	4,340
Arizona Water Company	White Tanks	ML	2,166	2,804	3,670	4,524	5,136	5,694	5,961
Arizona Water Company	Arizona City	ML	488	493	499	505	512	516	519
Arizona Water Company	Tierra Grande	ML	143	154	155	155	158	158	159
Arizona-American Water Company	Agua Fria	ML	11,136	16,550	23,195	30,391	41,300	50,867	53,343
Arizona-American Water Company	Paradise Valley	ML	6,925	6,982	7,016	7,061	7,067	7,074	7,076
Arizona-American Water Company	Sun City	ML	11,978	12,377	12,630	12,880	14,901	17,007	17,046
Beardsley Water Company		ML	723	923	1,724	2,523	3,678	4,640	5,407
Chandler Heights Citrus Irrigation District		ML	157	188	339	489	489	490	490
City of Tolleson		ML	768	834	840	844	845	847	848
Clearwater Utilities Company, Inc.		ML	396	444	562	679	710	785	872
Community Water Company of G.V.		ML	2,082	2,246	2,362	2,477	2,592	2,706	2,821
Desert Hills Water Company		ML	877	1,154	1,208	1,258	1,264	1,420	1,446
Diablo Village Water Company		ML	178	224	263	302	340	379	418
Diversified Water Utilities, Inc.		ML	670	1,370	2,482	3,592	3,787	3,886	3,890
Farmers Water Company		ML	649	925	1,218	1,511	1,804	2,097	2,390
Flowing Wells Irrigation District		ML	1,901	1,916	1,938	1,959	1,981	2,002	2,024
Goodman Water Company		ML	364	538	614	689	765	841	916
Green Valley Water Company		ML	714	775	846	917	988	1,060	1,131
H2O, Inc.		ML	2,706	5,520	9,416	13,305	14,062	14,806	14,826
Lago Del Oro Water Company, Inc.		ML	1,487	1,686	1,894	2,102	2,310	2,518	2,725
Las Quintas Serenas Water Company		ML	225	248	276	305	333	362	390
Litchfield Park Service Company		ML	7,011	9,455	12,736	15,877	16,730	17,829	17,926
Los Cerros Water Company, Inc.		ML	190	248	266	284	303	321	339
New River Utility Company		ML	1,579	2,130	2,130	2,130	2,131	2,132	2,132

TABLE C-1
Estimated Demand by Water Provider

Provider Name	Division	Type	Total Demand (AF/YR)						
			AF 2005	AF 2010	AF 2015	AF 2020	AF 2025	AF 2030	AF 2035
Picacho Water Company		ML	185	423	670	1,074	1,145	1,215	1,255
Pima Utility Company		ML	2,748	2,903	2,936	2,968	2,980	2,994	2,994
Quail Creek Water Company		ML	373	792	1,164	1,359	1,538	1,716	1,895
Queen Creek Water Company		ML	6,764	9,064	14,616	20,092	23,591	27,514	27,628
Ray Water Company		ML	1,466	1,498	1,538	1,577	1,617	1,656	1,695
Ridgeview Utility Company		ML	433	668	711	718	725	732	740
Rincon Water Company		ML	88	95	97	99	102	104	107
Rio Verde Utilities, Inc.		ML	995	1,015	1,038	1,059	1,069	1,074	1,103
Rose Valley Water Company		ML	1,379	1,433	1,436	1,438	1,441	1,443	1,448
Saguaro Water Company		ML	374	568	663	758	852	947	1,042
Signal Peak Water Company		ML	119	127	129	130	136	137	140
Sunrise Water Company		ML	776	955	1,142	1,326	1,483	1,651	1,762
Tierra Buena Water Company		ML	84	93	102	111	111	111	111
Town of Buckeye		ML	2,819	4,944	10,564	16,166	30,244	42,385	59,215
Tres Rios Homeowners Association, Inc.		ML	54	63	84	105	113	113	113
Valencia Water Company		ML	1,531	2,426	2,988	3,554	6,212	8,371	9,529
Valley Utility Water Company, Inc.		ML	956	1,226	1,416	1,605	1,606	1,611	1,611
Voyager Water Company		ML	140	144	149	154	159	164	169
Water Utility of Greater Buckeye, Inc.		ML	290	415	940	1,462	1,463	1,558	1,909
Water Utility of Greater Tonopah, Inc.		ML	232	249	260	268	360	398	2,456
Water Utility of Northern Scottsdale, Inc.		ML	272	295	309	321	321	321	332
City of Avondale		MSA	10,220	13,899	17,016	20,127	21,971	23,893	23,923
City of El Mirage		MSA	5,937	7,817	7,942	8,065	8,065	8,066	8,066
City of Eloy		MSA	3,111	3,688	4,800	5,911	7,139	7,824	8,331
City of Goodyear		MSA	5,268	8,373	17,425	26,471	44,310	61,170	64,673
City of Peoria		MSA	25,891	30,356	37,960	45,552	54,362	60,987	69,529
City of Scottsdale		MSA	88,027	94,349	101,172	107,966	108,668	109,687	109,699
City of Surprise		MSA	3,242	5,516	8,181	10,834	20,278	28,063	42,354
City of Tucson		MSA	143,150	157,599	172,302	187,005	201,709	216,412	231,115
Copper Mountain Ranch Community Facilities District		MSA	108	173	563	951	2,033	2,462	2,620
Johnson Utilities, L.L.C.		MSA	5,278	9,908	17,722	25,528	28,340	30,332	30,783
Metropolitan Domestic Water Improvement District		MSA	9,945	10,204	10,496	10,788	11,080	11,373	11,665
Rancho Sahuarita Water Company		MSA	246	492	741	991	1,240	1,489	1,739
Santa Rosa Water Company		MSA	37	73	85	98	149	164	179
Spanish Trail Water Company		MSA	697	1,250	1,808	2,366	2,924	3,482	4,040
Town of Florence		MSA	2,295	2,443	3,020	3,595	4,081	4,372	4,933
Town of Marana		MSA	2,930	4,484	6,049	7,615	9,181	10,746	12,312
Town of Oro Valley	Main	MSA	8,926	9,541	10,176	10,812	11,447	12,083	12,718
Vail Water Company		MSA	941	1,425	1,916	2,407	2,898	3,389	3,880
Water Utilities Community Facilities District		MSA	1,508	1,667	1,998	2,328	2,705	2,966	3,059
No Water Provider	Eligible	Outside	9,056	14,625	29,761	44,860	59,202	67,624	75,973
Grand Total			437,473	516,022	627,049	737,775	860,624	964,571	1,052,201

TABLE C-2
Estimated Demand Excluding Pre-95 Subdivisions by Member Land Water Providers

Provider Name	Division	Type	Total Demand (AF/YR)						
			AF 2005	AF 2010	AF 2015	AF 2020	AF 2025	AF 2030	AF 2035
Allenville Water Company		Future ML	6	20	57	69	70	71	71
Arivaca Townsite Co-op Water Company		Future ML	0	0	0	0	0	0	0
Arizona Water Company	Stanfield	Future ML	71	240	288	303	335	340	343
Arizona-American Water Company	Sun City West	Future ML	90	302	524	594	594	595	597
Avra Water Corporation		Future ML	9	30	56	64	68	70	72
Berneil Water Company		Future ML	7	23	25	25	25	25	25
Carefree Valley Water Company		Future ML	0	0	1	1	1	1	1
Carter Water Company		Future ML	0	0	0	0	1	1	1
Casa Grande West Water Company		Future ML	0	0	1	2	2	2	3
Cave Creek Water Company		Future ML	37	123	165	177	226	246	246
Chaparral Water Company		Future ML	45	150	151	151	165	166	179
Circle City Water Company		Future ML	31	105	116	119	120	121	121
Despoblado Water Company		Future ML	0	0	0	0	0	0	0
Dome Well Corporation		Future ML	0	0	0	0	0	0	0
E & T Water Company		Future ML	1	2	3	3	3	3	3
Golden Corridor Water Company		Future ML	13	44	85	98	101	102	103
Grandview Water Company		Future ML	0	0	0	0	0	0	0
Hacienda Acres Water System		Future ML	0	0	0	0	1	1	1
Halcyon Acres Water Company		Future ML	1	2	4	4	5	5	5
Hassayampa Water Co-op		Future ML	0	0	0	0	0	0	0
Homeowners Coop		Future ML	1	2	5	6	7	7	7
Isadore Water		Future ML	0	0	0	0	0	0	0
James Esposito		Future ML	0	0	0	1	1	1	1
La Casita Water Company		Future ML	0	0	1	1	1	1	1
Lake Pleasant Water Company		Future ML	0	0	0	0	26	26	26
Lazy C Water Service		Future ML	0	0	2	3	3	3	3
Loeffler Lane Homeowners Assoc		Future ML	0	0	0	0	0	0	0
Lyn Lee		Future ML	0	0	1	1	2	2	2
Mesaland Water Company		Future ML	1	2	4	5	5	5	5
Mirabell Water Company		Future ML	0	0	0	0	0	0	0
Mobile Water Company		Future ML	0	0	38	50	63	68	138
Mountain Pass Utility Company		Future ML	7	25	43	48	51	53	54
Mt. Lemmon Cooperative Water Company		Future ML	0	0	0	0	0	0	0
Orchid Valley MWP		Future ML	0	0	0	1	1	1	1
Park Water Company		Future ML	0	0	0	0	0	0	0
Picacho Water Improvement Corporation		Future ML	0	0	0	0	0	0	0
Pinal Water Company		Future ML	2	8	19	22	24	24	25
Rancho Del Conejo Water Community Co-op		Future ML	0	0	1	1	1	1	1
Red Rock Water Corporation		Future ML	0	0	0	0	0	0	0
Rigby Water Company		Future ML	12	40	173	215	230	233	233
Rillito Water Users		Future ML	1	4	8	9	9	10	10
Rincon Creek Water Company		Future ML	1	4	9	11	12	12	13
Rincon Ranch Water Company		Future ML	0	0	1	2	2	2	2
Sahuarita Village Water Company		Future ML	2	8	15	17	18	18	19
Sandario Water Company		Future ML	0	0	1	1	1	1	1
Santa Cruz Water Company		Future ML	41	137	204	225	250	253	253
Sasabe Water Company		Future ML	0	0	0	0	0	0	0
Silverbell IDD		Future ML	0	0	0	0	0	0	0

TABLE C-2
Estimated Demand Excluding Pre-95 Subdivisions by Member Land Water Providers

Provider Name	Division	Type	Total Demand (AF/YR)						
			AF 2005	AF 2010	AF 2015	AF 2020	AF 2025	AF 2030	AF 2035
South Mountain Water Company		Future ML	0	0	2	2	3	3	4
South Rainbow Valley Water Co-op		Future ML	0	0	6	7	7	7	7
Spring Branch Water Company		Future ML	0	0	0	0	0	0	0
Sun Valley Farms Unit VI Water Company		Future ML	7	23	52	61	61	61	61
Sunburst Farms Mutual Water & Ag Company		Future ML	0	0	0	0	0	0	0
Sunland Water Company		Future ML	0	0	0	0	0	0	0
Thim Utility Company		Future ML	0	0	1	2	2	2	2
Thim Water Corporation		Future ML	0	0	0	0	0	0	0
Thunderbird Farms Improvement District		Future ML	6	20	21	21	21	21	23
Thunderhead Water Company		Future ML	1	3	6	7	7	7	7
Tonto Hills Utility Company		Future ML	1	4	4	4	4	4	4
Town of Carefree		Future ML	54	178	292	328	328	329	330
Twin Hawks Utility, Inc.		Future ML	0	0	0	0	0	0	0
United Utilities Cactus Forest		Future ML	0	0	0	0	0	0	0
Valley View Water Company		Future ML	0	0	1	2	3	3	3
Viva Development Corporation		Future ML	5	18	32	37	39	40	41
West End Water Company		Future ML	7	20	480	626	686	717	732
West Phoenix Water Company		Future ML	1	3	3	3	3	3	6
Wilhoit Water Company		Future ML	27	90	149	167	167	168	168
Winterhaven Water Company		Future ML	0	0	0	0	0	0	0
Worden Water Company		Future ML	0	0	0	0	0	0	0
Adaman Mutual Water Company		ML	142	154	161	162	162	162	162
Anway Manville L.L.C.		ML	47	49	49	49	49	49	49
Arizona Water Company	Apache Junction	ML	2,419	3,847	6,087	6,789	7,037	7,126	7,149
Arizona Water Company	Casa Grande	ML	3,417	4,981	5,876	6,246	6,680	6,775	7,063
Arizona Water Company	Coolidge	ML	912	1,168	1,221	1,232	1,252	1,260	1,264
Arizona Water Company	Oracle	ML	513	1,295	1,963	2,017	2,024	2,027	2,029
Arizona Water Company	Superior	ML	117	351	1,188	1,453	1,636	1,684	1,689
Arizona Water Company	White Tanks	ML	1,472	2,108	2,974	3,244	3,344	3,391	3,407
Arizona Water Company	Arizona City	ML	51	56	62	64	65	65	65
Arizona Water Company	Tierra Grande	ML	96	107	108	108	109	109	109
Arizona-American Water Company	Agua Fria	ML	5,396	10,727	17,372	19,660	21,450	22,242	22,399
Arizona-American Water Company	Paradise Valley	ML	123	179	213	228	229	229	229
Arizona-American Water Company	Sun City	ML	568	961	1,214	1,294	1,625	1,799	1,802
Beardsley Water Company		ML	548	744	1,545	1,798	1,987	2,067	2,115
Chandler Heights Citrus Irrigation District		ML	18	48	199	247	247	247	247
City of Tolleson		ML	103	168	173	175	175	175	175
Clearwater Utilities Company, Inc.		ML	155	202	320	357	362	368	374
Community Water Company of G.V.		ML	402	567	682	719	738	747	754
Desert Hills Water Company		ML	177	446	500	515	517	529	531
Diablo Village Water Company		ML	104	150	188	201	207	210	212
Diversified Water Utilities, Inc.		ML	308	987	2,099	2,451	2,483	2,491	2,491
Farmers Water Company		ML	283	553	846	939	987	1,012	1,030
Flowing Wells Irrigation District		ML	25	40	62	69	72	74	76
Goodman Water Company		ML	335	510	585	609	621	627	632
Green Valley Water Company		ML	160	220	291	314	325	331	336
H2O, Inc.		ML	1,911	4,673	8,570	9,810	9,934	9,996	9,997
Lago Del Oro Water Company, Inc.		ML	219	417	625	691	725	742	756

TABLE C-2
Estimated Demand Excluding Pre-95 Subdivisions by Member Land Water Providers

Provider Name	Division	Type	Total Demand (AF/YR)						
			AF 2005	AF 2010	AF 2015	AF 2020	AF 2025	AF 2030	AF 2035
Las Quintas Serenas Water Company		ML	38	60	89	98	102	105	107
Litchfield Park Service Company		ML	4,381	6,817	10,098	11,145	11,286	11,377	11,383
Los Cerros Water Company, Inc.		ML	86	144	162	167	170	172	173
New River Utility Company		ML	1,683	2,218	2,219	2,219	2,219	2,219	2,219
Picacho Water Company		ML	130	366	613	1,017	1,029	1,034	1,037
Pima Utility Company		ML	657	810	843	853	855	857	857
Quail Creek Water Company		ML	275	693	1,065	1,145	1,175	1,190	1,201
Queen Creek Water Company		ML	5,274	7,574	13,126	14,860	15,434	15,759	15,766
Ray Water Company		ML	187	219	258	271	278	281	284
Ridgeview Utility Company		ML	354	589	633	635	636	637	638
Rincon Water Company		ML	71	78	80	81	81	81	82
Rio Verde Utilities, Inc.		ML	103	124	146	153	154	155	156
Rose Valley Water Company		ML	1,454	1,506	1,509	1,510	1,511	1,511	1,511
Saguaro Water Company		ML	340	534	629	659	675	683	689
Signal Peak Water Company		ML	111	119	120	121	122	122	122
Sunrise Water Company		ML	262	436	624	682	707	721	728
Tierra Buena Water Company		ML	69	78	87	90	90	90	90
Town of Buckeye		ML	1,369	3,451	9,071	10,845	13,154	14,159	15,231
Tres Rios Homeowners Association, Inc.		ML	53	61	82	89	90	90	90
Valencia Water Company		ML	865	1,760	2,322	2,502	2,938	3,117	3,190
Valley Utility Water Company, Inc.		ML	421	685	874	935	935	935	935
Voyager Water Company		ML	25	30	35	36	37	38	38
Water Utility of Greater Buckeye, Inc.		ML	108	229	754	919	920	928	950
Water Utility of Greater Tonopah, Inc.		ML	41	59	69	72	87	90	221
Water Utility of Northern Scottsdale, Inc.		ML	272	295	309	313	313	313	314
No Water Provider	Eligible	Outside	2,292	7,693	22,829	27,611	29,962	30,658	31,190
Grand Total			41,430	73,967	126,874	143,966	153,756	157,693	160,299

**TABLE C-3
PROJECTED DELIVERY SCHEDULE FOR CAP MUNICIPAL AND INDUSTRIAL WATER (UNITS: AF/YR)**

Water Provider Name	Division	M&I Priority CAP Water				Hohokam Water		Indian Lease / Assignments	2005	2010	2015	2020	2025	2030	2035
		M&I Subcontract	M&I Subcontract Reallocation	M&I Subcontract Other	Total Entitlement	Pre-GRIC (Through 2007)	Post-GRIC (After 2007)								
Adaman Mutual Water Company					-			-	-	-	-	-	-	-	
Allenville Water Company					-			-	-	-	-	-	-	-	
Anway Manville L.L.C.					-			-	-	-	-	-	-	-	
Arivaca Townsite Co-op Water Company					-			-	-	-	-	-	-	-	
Arizona Water Company	Apache Junction	6,000			6,000			6,000	6,000	6,000	6,000	6,000	6,000	6,000	
Arizona Water Company	Casa Grande	8,884			8,884			2,000	2,000	2,000	2,000	2,000	2,000	2,000	
Arizona Water Company	Coolidge	2,000			2,000			-	-	-	-	-	-	-	
Arizona Water Company	Oracle				-			-	-	-	-	-	-	-	
Arizona Water Company	Stanfield				-			-	-	-	-	-	-	-	
Arizona Water Company	Superior				-			-	-	-	-	-	-	-	
Arizona Water Company	White Tanks	968			968			-	968	968	968	968	968	968	
Avra Water Corporation			808		808			-	-	-	-	-	-	-	
Beardsley Water Company					-			-	-	-	-	-	-	-	
Berneil Water Company		200			200			-	-	-	-	-	-	-	
Circle City Water Company		3,932			3,932			-	-	-	-	-	-	-	
Town of Oro Valley	Satellite				-			-	-	-	-	-	-	-	
Carefree Valley Water Company					-			-	-	-	-	-	-	-	
Carter Water Company					-			-	-	-	-	-	-	-	
Casa Grande West Water Company					-			-	-	-	-	-	-	-	
Cave Creek Water Company		1,600	806		2,406			1,448	1,698	1,948	2,198	2,406	2,406	2,406	
Chaparral City Water Company		6,978	1,931		8,909			4,530	4,915	5,428	5,936	5,936	5,940	5,943	
Chaparral Water Company					-			-	-	-	-	-	-	-	
Arizona-American Water Company	Agua Fria	11,093			11,093			7,600	11,093	11,093	11,093	11,093	11,093	11,093	
City of Avondale		4,746		670	5,416			4,746	4,746	4,746	4,746	4,746	4,746	4,746	
City of Chandler		3,668	4,986		8,654	4,563	2,952	16,736	12,380	24,008	28,342	28,342	28,342	28,342	
City of Goodyear		3,381	7,211	150	10,742			7,000	3,531	17,742	17,742	17,742	17,742	17,742	
City of Mesa		36,388	7,115		43,503	13,017	4,924	28,586	51,617	39,896	49,124	58,338	62,422	66,577	66,944
Clearwater Utilities Company, Inc.					-			-	-	-	-	-	-	-	
Community Water Company of G.V.		1,337	1,521		2,858			-	-	-	-	-	-	-	
Water Utilities Community Facilities District		2,919			2,919			50	50	50	50	50	50	50	
Vail Water Company		786	1,071		1,857			-	-	-	-	-	-	-	
Desert Hills Water Company					-			-	-	-	-	-	-	-	
Despoblado Water Company					-			-	-	-	-	-	-	-	
Diablo Village Water Company					-			-	-	-	-	-	-	-	
Diversified Water Utilities, Inc.					-			-	-	-	-	-	-	-	
Dome Well Corporation					-			-	-	-	-	-	-	-	
E & T Water Company					-			-	-	-	-	-	-	-	
Farmers Water Company					-			-	-	-	-	-	-	-	

**TABLE C-3
PROJECTED DELIVERY SCHEDULE FOR CAP MUNICIPAL AND INDUSTRIAL WATER (UNITS: AF/YR)**

Water Provider Name	Division	M&I Priority CAP Water				Hohokam Water		Indian Lease / Assignments	2005	2010	2015	2020	2025	2030	2035
		M&I Subcontract	M&I Subcontract Reallocation	M&I Subcontract Other	Total Entitlement	Pre-GRIC (Through 2007)	Post-GRIC (After 2007)								
Francisco Grande Utility Company								-	-	-	-	-	-	-	-
Golden Corridor Water Company								-	-	-	-	-	-	-	-
Goodman Water Company								-	-	-	-	-	-	-	-
Grandview Water Company								-	-	-	-	-	-	-	-
Green Valley Water Company		1,900			1,900			500	500	500	500	500	500	500	500
H20, Inc.			147		147			-	-	-	-	-	-	-	-
Hacienda Acres Water System								-	-	-	-	-	-	-	-
Halcyon Acres Water Company								-	-	-	-	-	-	-	-
Hassayampa Water Co-op								-	-	-	-	-	-	-	-
Rancho Sahuarita Water Company								-	-	-	-	-	-	-	-
Isadore Water								-	-	-	-	-	-	-	-
James Esposito								-	-	-	-	-	-	-	-
Johnson Utilities, L.L.C.								-	-	-	-	-	-	-	-
La Casita Water Company								-	-	-	-	-	-	-	-
Lago Del Oro Water Company, Inc.								-	-	-	-	-	-	-	-
Lake Pleasant Water Company								-	-	-	-	-	-	-	-
Las Quintas Serenas Water Company								-	-	-	-	-	-	-	-
Lazy C Water Service								-	-	-	-	-	-	-	-
Litchfield Park Service Company		5,580		(820)	4,760			-	-	-	-	-	-	-	-
Loeffler Lane Homeowners Assoc								-	-	-	-	-	-	-	-
Los Cerros Water Company, Inc.								-	-	-	-	-	-	-	-
Mesaland Water Company								-	-	-	-	-	-	-	-
Metropolitan Domestic Water Improvement District	Main	8,858	4,602		13,460			8,858	10,204	10,496	10,788	11,080	11,373	11,665	
Mirabell Water Company								-	-	-	-	-	-	-	-
Mobile Water Company								-	-	-	-	-	-	-	-
Mountain Pass Utility Company								-	-	-	-	-	-	-	-
Mt. Lemmon Cooperative Water Company								-	-	-	-	-	-	-	-
New River Utility Company		1,885			1,885			-	-	-	-	-	-	-	-
Arizona-American Water Company	Paradise Valley	3,231			3,231			3,231	3,231	3,231	3,231	3,231	3,231	3,231	3,231
Park Water Company								-	-	-	-	-	-	-	-
Picacho Water Company								-	-	-	-	-	-	-	-
Picacho Water Improvement Corporation								-	-	-	-	-	-	-	-
Pima Utility Company								-	-	-	-	-	-	-	-
Pinal Water Company								-	-	-	-	-	-	-	-
Quail Creek Water Company								-	-	-	-	-	-	-	-
Queen Creek Water Company		348			348			348	348	348	348	348	348	348	348
Rancho Del Conejo Water Community Co-op								-	-	-	-	-	-	-	-
Ray Water Company								-	-	-	-	-	-	-	-

**TABLE C-3
PROJECTED DELIVERY SCHEDULE FOR CAP MUNICIPAL AND INDUSTRIAL WATER (UNITS: AF/YR)**

Water Provider Name	Division	M&I Priority CAP Water				Hohokam Water		Indian Lease / Assignments	2005	2010	2015	2020	2025	2030	2035
		M&I Subcontract	M&I Subcontract Reallocation	M&I Subcontract Other	Total Entitlement	Pre-GRIC (Through 2007)	Post-GRIC (After 2007)								
Red Rock Water Corporation								-	-	-	-	-	-	-	
Ridgeview Utility Company								-	-	-	-	-	-	-	
Rigby Water Company								-	-	-	-	-	-	-	
Rillito Water Users								-	-	-	-	-	-	-	
Rincon Creek Water Company								-	-	-	-	-	-	-	
Rincon Ranch Water Company								-	-	-	-	-	-	-	
Rincon Water Company								-	-	-	-	-	-	-	
Rio Verde Utilities, Inc.		812			812			431	812	812	812	812	812	812	
Rose Valley Water Company								-	-	-	-	-	-	-	
Saguaro Water Company								-	-	-	-	-	-	-	
Sahuarita Village Water Company								-	-	-	-	-	-	-	
Sandario Water Company								-	-	-	-	-	-	-	
Santa Cruz Water Company								-	-	-	-	-	-	-	
Sasabe Water Company								-	-	-	-	-	-	-	
Signal Peak Water Company, Inc.								-	-	-	-	-	-	-	
South Mountain Water Company								-	-	-	-	-	-	-	
South Rainbow Valley Water Co-op								-	-	-	-	-	-	-	
Spanish Trail Water Company		3,037			3,037			-	-	-	-	-	-	-	
Spring Branch Water Company								-	-	-	-	-	-	-	
Arizona-American Water Company	Sun City	4,189			4,189			4,189	4,189	4,189	4,189	4,189	4,189	4,189	
Arizona-American Water Company	Sun City West	2,372			2,372			2,372	2,372	2,372	2,372	2,372	2,372	2,372	
Sun Valley Farms Unit VI Water Company								-	-	-	-	-	-	-	
Sunburst Farms Mutual Water & Ag Company								-	-	-	-	-	-	-	
Sunland Water Company								-	-	-	-	-	-	-	
Sunrise Water Company		944			944			-	-	-	-	-	-	-	
Thim Utility Company								-	-	-	-	-	-	-	
Thim Water Corporation								-	-	-	-	-	-	-	
Thunderhead Water Company								-	-	-	-	-	-	-	
Tierra Buena Water Company								-	-	-	-	-	-	-	
Tonto Hills Utility Company		71			71			-	-	-	-	-	-	-	
Twin Hawks Utility, Inc.								-	-	-	-	-	-	-	
United Utilities Cactus Forest								-	-	-	-	-	-	-	
Valencia Water Company								-	-	-	-	-	-	-	
Valley Utility Water Company, Inc.			250		250			-	-	-	-	-	-	-	
Valley View Water Company								-	-	-	-	-	-	-	
Viva Development Corporation								-	-	-	-	-	-	-	
Voyager Water Company								-	-	-	-	-	-	-	
Water Utility of Greater Buckeye, Inc.		43			43			-	-	-	-	-	-	-	

**TABLE C-3
PROJECTED DELIVERY SCHEDULE FOR CAP MUNICIPAL AND INDUSTRIAL WATER (UNITS: AF/YR)**

Water Provider Name	Division	M&I Priority CAP Water				Hohokam Water		Indian Lease / Assignments	2005	2010	2015	2020	2025	2030	2035
		M&I Subcontract	M&I Subcontract Reallocation	M&I Subcontract Other	Total Entitlement	Pre-GRIC (Through 2007)	Post-GRIC (After 2007)								
Water Utility of Greater Tonopah, Inc.		64			64			-	-	-	-	-	-	-	
Water Utility of Northern Scottsdale, Inc.								-	-	-	-	-	-	-	
West End Water Company		157			157			-	-	-	-	-	-	-	
West Phoenix Water Company								-	-	-	-	-	-	-	
Wilhoit Water Company								-	-	-	-	-	-	-	
Worden Water Company								-	-	-	-	-	-	-	
Town of Buckeye		25			25			-	-	-	-	-	-	-	
City of El Mirage			508		508			-	-	-	-	-	-	-	
Town of Gilbert		7,235			7,235		12,387	17,993	19,622	19,622	19,622	19,622	19,622	19,622	
City of Glendale		14,183	3,053		17,236		5,496	19,679	19,679	19,679	19,679	19,679	19,679	19,679	
City of Peoria		19,709	5,527		25,236		7,000	12,628	15,583	23,075	30,556	32,236	32,236	32,236	
City of Phoenix		113,914	8,206	12,000	134,120	55,637	36,144	28,459	160,350	189,732	198,723	198,723	198,723	198,723	
City of Scottsdale		49,829	2,981		52,810	8,678	3,283	25,183	59,190	77,455	81,276	81,276	81,276	81,276	
City of Surprise		7,373	2,876		10,249				-	5,516	8,181	10,249	10,249	10,249	
City of Tempe		4,315			4,315			183	4,498	4,498	4,498	4,498	4,498	4,498	
City of Tolleson									-	-	-	-	-	-	
Town of Oro Valley	Main	6,748	3,557		10,305				-	9,541	10,176	10,305	10,305	10,305	
City of Tucson		135,966	8,206		144,172			65,000	96,250	131,372	142,672	142,672	142,672	142,672	
City of Eloy		2,171			2,171			2,171	2,171	2,171	2,171	2,171	2,171	2,171	
Town of Florence		2,048			2,048			2,048	2,048	2,048	2,048	2,048	2,048	2,048	
Town of Marana		47			47				-	-	-	-	-	-	
Arizona Water Company	Arizona City								-	-	-	-	-	-	
Flowing Wells Irrigation District		4,354			4,354				-	-	-	-	-	-	
Arizona Water Company	Tierra Grande								-	-	-	-	-	-	
Arizona-American Water Company	Anthem						7,246	2,152	3,637	3,977	4,315	5,802	6,473	6,478	
DMAFB Water System									-	-	-	-	-	-	
Arizona State Prison									-	-	-	-	-	-	
Friendly Village Mobile Home Park									-	-	-	-	-	-	
Park Shadows Country Homes									-	-	-	-	-	-	
U of A									-	-	-	-	-	-	
Santa Rosa Water Company									-	-	-	-	-	-	
Lyn Lee									-	-	-	-	-	-	
Winterhaven Water Company									-	-	-	-	-	-	
Copper Mountain Ranch Community Facilities District									-	-	-	-	-	-	
Homeowners Coop									-	-	-	-	-	-	
Maricopa Domestic Water Improvement District									-	-	-	-	-	-	
Orchid Valley MWP									-	-	-	-	-	-	
Queen Valley Domestic Water Improvement District									-	-	-	-	-	-	

**TABLE C-3
PROJECTED DELIVERY SCHEDULE FOR CAP MUNICIPAL AND INDUSTRIAL WATER (UNITS: AF/YR)**

Water Provider Name	Division	M&I Priority CAP Water				Hohokam Water		Indian Lease / Assignments	2005	2010	2015	2020	2025	2030	2035
		M&I Subcontract	M&I Subcontract Reallocation	M&I Subcontract Other	Total Entitlement	Pre-GRIC (Through 2007)	Post-GRIC (After 2007)								
Silverbell IDD					-			-	-	-	-	-	-	-	-
Thunderbird Farms Improvement District					-			-	-	-	-	-	-	-	-
Chandler Heights Citrus Irrigation District		315			315			-	-	-	-	-	-	-	-
Tres Rios Homeowners Association, Inc.					-			-	-	-	-	-	-	-	-
Metropolitan Domestic Water Improvement District	Hub Satellite				-			-	-	-	-	-	-	-	-
Luke Air Force Base					-			-	-	-	-	-	-	-	-
Town of Carefree		1,300			1,300			400	400	400	400	400	400	400	400
Del Webb								2,754	7,848	6,363	6,023	5,685	4,198	3,527	3,522
San Carlos Apaches - Phelps-Dodge Exchange								14,000	4,166	4,166	4,166	4,166	4,166	4,166	4,166
		497,903	65,362	12,000	575,265	81,895	47,303	155,030	471,955	591,432	664,776	696,018	702,282	706,733	707,396

TABLE C-4
Estimated Groundwater Demand by Water Provider

Provider Name	Division	Type	Total Groundwater Demand (AF/YR)						
			AF 2005	AF 2010	AF 2015	AF 2020	AF 2025	AF 2030	AF 2035
Allenville Water Company		Future ML	6	20	57	69	70	71	71
Arivaca Townsite Co-op Water Company		Future ML	0	0	0	0	0	0	0
Arizona Water Company	Stanfield	Future ML	71	240	288	303	335	340	343
Arizona-American Water Company	Sun City West	Future ML	61	206	364	418	418	419	421
Avra Water Corporation		Future ML	9	30	56	64	68	70	72
Berneil Water Company		Future ML	7	23	25	25	25	25	25
Carefree Valley Water Company		Future ML	0	0	1	1	1	1	1
Carter Water Company		Future ML	0	0	0	0	1	1	1
Casa Grande West Water Company		Future ML	0	0	1	2	2	2	3
Cave Creek Water Company		Future ML	37	123	165	177	226	246	246
Chaparral Water Company		Future ML	45	150	151	151	165	166	179
Circle City Water Company		Future ML	31	105	116	119	120	121	121
Despoblado Water Company		Future ML	0	0	0	0	0	0	0
Dome Well Corporation		Future ML	0	0	0	0	0	0	0
E & T Water Company		Future ML	1	2	3	3	3	3	3
Golden Corridor Water Company		Future ML	13	44	85	98	101	102	103
Grandview Water Company		Future ML	0	0	0	0	0	0	0
Hacienda Acres Water System		Future ML	0	0	0	0	1	1	1
Halcyon Acres Water Company		Future ML	1	2	4	4	5	5	5
Hassayampa Water Co-op		Future ML	0	0	0	0	0	0	0
Homeowners Coop		Future ML	1	2	5	6	7	7	7
Isadore Water		Future ML	0	0	0	0	0	0	0
James Esposito		Future ML	0	0	0	1	1	1	1
La Casita Water Company		Future ML	0	0	1	1	1	1	1
Lake Pleasant Water Company		Future ML	0	0	0	0	26	26	26
Lazy C Water Service		Future ML	0	0	2	3	3	3	3
Loeffler Lane Homeowners Assoc		Future ML	0	0	0	0	0	0	0
Lyn Lee		Future ML	0	0	1	1	2	2	2
Mesaland Water Company		Future ML	1	2	4	5	5	5	5
Mirabell Water Company		Future ML	0	0	0	0	0	0	0
Mobile Water Company		Future ML	0	0	38	50	63	68	138
Mountain Pass Utility Company		Future ML	7	25	43	48	51	53	54
Mt. Lemmon Cooperative Water Company		Future ML	0	0	0	0	0	0	0
Orchid Valley MWP		Future ML	0	0	0	1	1	1	1
Park Water Company		Future ML	0	0	0	0	0	0	0
Picacho Water Improvement Corporation		Future ML	0	0	0	0	0	0	0
Pinal Water Company		Future ML	2	8	19	22	24	24	25
Rancho Del Conejo Water Community Co-op		Future ML	0	0	1	1	1	1	1
Red Rock Water Corporation		Future ML	0	0	0	0	0	0	0
Rigby Water Company		Future ML	12	40	173	215	230	233	233
Rillito Water Users		Future ML	1	4	8	9	9	10	10
Rincon Creek Water Company		Future ML	1	4	9	11	12	12	13
Rincon Ranch Water Company		Future ML	0	0	1	2	2	2	2
Sahuarita Village Water Company		Future ML	2	8	15	17	18	18	19
Sandario Water Company		Future ML	0	0	1	1	1	1	1
Santa Cruz Water Company		Future ML	41	137	204	225	250	253	253
Sasabe Water Company		Future ML	0	0	0	0	0	0	0
Silverbell IDD		Future ML	0	0	0	0	0	0	0
South Mountain Water Company		Future ML	0	0	2	2	3	3	4
South Rainbow Valley Water Co-op		Future ML	0	0	6	7	7	7	7

TABLE C-4
Estimated Groundwater Demand by Water Provider

Provider Name	Division	Type	Total Groundwater Demand (AF/YR)						
			AF 2005	AF 2010	AF 2015	AF 2020	AF 2025	AF 2030	AF 2035
Spring Branch Water Company		Future ML	0	0	0	0	0	0	0
Sun Valley Farms Unit VI Water Company		Future ML	7	23	52	61	61	61	61
Sunburst Farms Mutual Water & Ag Company		Future ML	0	0	0	0	0	0	0
Sunland Water Company		Future ML	0	0	0	0	0	0	0
Thim Utility Company		Future ML	0	0	1	2	2	2	2
Thim Water Corporation		Future ML	0	0	0	0	0	0	0
Thunderbird Farms Improvement District		Future ML	6	20	21	21	21	21	23
Thunderhead Water Company		Future ML	1	3	6	7	7	7	7
Tonto Hills Utility Company		Future ML	1	4	4	4	4	4	4
Town of Carefree		Future ML	54	178	292	328	328	329	330
Twin Hawks Utility, Inc.		Future ML	0	0	0	0	0	0	0
United Utilities Cactus Forest		Future ML	0	0	0	0	0	0	0
Valley View Water Company		Future ML	0	0	1	2	3	3	3
Viva Development Corporation		Future ML	5	18	32	37	39	40	41
West End Water Company		Future ML	7	20	480	626	686	717	732
West Phoenix Water Company		Future ML	1	3	3	3	3	3	6
Wilhoit Water Company		Future ML	27	90	149	167	167	168	168
Winterhaven Water Company		Future ML	0	0	0	0	0	0	0
Worden Water Company		Future ML	0	0	0	0	0	0	0
Adaman Mutual Water Company		ML	142	154	161	162	162	162	162
Anway Manville L.L.C.		ML	47	49	49	49	49	49	49
Arizona Water Company	Apache Junction	ML	1,764	2,985	5,003	5,785	6,090	6,237	6,281
Arizona Water Company	Casa Grande	ML	3	3	638	1,006	1,439	1,534	1,822
Arizona Water Company	Coolidge	ML	0	0	29	40	59	67	72
Arizona Water Company	Oracle	ML	513	1,295	1,963	2,017	2,024	2,027	2,029
Arizona Water Company	Superior	ML	117	351	1,188	1,453	1,636	1,684	1,689
Arizona Water Company	White Tanks	ML	1,472	391	1,643	2,260	2,520	2,677	2,737
Arizona Water Company	Arizona City	ML	51	56	62	64	65	65	65
Arizona Water Company	Tierra Grande	ML	96	107	108	108	109	109	109
Arizona-American Water Company	Agua Fria	ML	1,920	3,448	8,197	10,154	13,927	16,278	16,875
Arizona-American Water Company	Paradise Valley	ML	88	131	156	166	167	167	167
Arizona-American Water Company	Sun City	ML	426	721	911	970	1,219	1,350	1,352
Beardsley Water Company		ML	548	744	1,545	1,798	1,987	2,067	2,115
Chandler Heights Citrus Irrigation District		ML	18	48	199	247	247	247	247
City of Tolleson		ML	0	0	0	0	0	0	0
Clearwater Utilities Company, Inc.		ML	155	202	320	357	362	368	374
Community Water Company of G.V.		ML	402	567	682	719	738	747	754
Desert Hills Water Company		ML	177	446	500	515	517	529	531
Diablo Village Water Company		ML	104	150	188	201	207	210	212
Diversified Water Utilities, Inc.		ML	308	987	2,099	2,451	2,483	2,491	2,491
Farmers Water Company		ML	283	553	846	939	987	1,012	1,030
Flowing Wells Irrigation District		ML	25	40	62	69	72	74	76
Goodman Water Company		ML	335	510	585	609	621	627	632
Green Valley Water Company		ML	160	220	291	314	325	331	336
H2O, Inc.		ML	1,911	4,673	8,570	9,810	9,934	9,996	9,997
Lago Del Oro Water Company, Inc.		ML	219	417	625	691	725	742	756
Las Quintas Serenas Water Company		ML	38	60	89	98	102	105	107
Litchfield Park Service Company		ML	4,381	6,817	10,098	11,145	11,286	11,377	11,383
Los Cerros Water Company, Inc.		ML	86	144	162	167	170	172	173
New River Utility Company		ML	1,683	2,218	2,219	2,219	2,219	2,219	2,219

TABLE C-4
Estimated Groundwater Demand by Water Provider

Provider Name	Division	Type	Total Groundwater Demand (AF/YR)						
			AF 2005	AF 2010	AF 2015	AF 2020	AF 2025	AF 2030	AF 2035
Picacho Water Company		ML	130	366	613	1,017	1,029	1,034	1,037
Pima Utility Company		ML	657	810	843	853	855	857	857
Quail Creek Water Company		ML	275	693	1,065	1,145	1,175	1,190	1,201
Queen Creek Water Company		ML	5,274	7,574	13,126	14,860	15,434	15,759	15,766
Ray Water Company		ML	187	219	258	271	278	281	284
Ridgeview Utility Company		ML	354	589	633	635	636	637	638
Rincon Water Company		ML	71	78	80	81	81	81	82
Rio Verde Utilities, Inc.		ML	79	95	113	130	134	136	139
Rose Valley Water Company		ML	1,454	1,506	1,509	1,510	1,511	1,511	1,511
Saguaro Water Company		ML	340	534	629	659	675	683	689
Signal Peak Water Company		ML	111	119	120	121	122	122	122
Sunrise Water Company		ML	262	436	624	682	707	721	728
Tierra Buena Water Company		ML	69	78	87	90	90	90	90
Town of Buckeye		ML	1,369	3,451	9,071	10,845	13,154	14,159	15,231
Tres Rios Homeowners Association, Inc.		ML	53	61	82	89	90	90	90
Valencia Water Company		ML	865	1,760	2,322	2,502	2,938	3,117	3,190
Valley Utility Water Company, Inc.		ML	421	685	874	935	935	935	935
Voyager Water Company		ML	25	30	35	36	37	38	38
Water Utility of Greater Buckeye, Inc.		ML	108	229	754	919	920	928	950
Water Utility of Greater Tonopah, Inc.		ML	41	59	69	72	87	90	221
Water Utility of Northern Scottsdale, Inc.		ML	272	295	309	313	313	313	314
City of Avondale		MSA	0	0	0	0	749	2,099	3,012
City of El Mirage		MSA	3,788	4,479	4,559	4,637	4,638	4,638	4,638
City of Eloy		MSA	940	1,517	2,629	3,740	4,968	5,653	6,160
City of Goodyear		MSA	0	0	375	6,146	17,528	28,285	30,519
City of Peoria		MSA	0	0	0	0	0	0	4,238
City of Scottsdale		MSA	20,739	6,505	15,761	24,026	24,821	25,975	25,988
City of Surprise		MSA	3,242	0	0	6,570	21,230	33,315	55,500
City of Tucson		MSA	83,702	56,024	28,130	42,833	57,537	72,240	86,943
Copper Mountain Ranch Community Facilities Distric		MSA	108	173	563	951	2,033	2,462	2,620
Johnson Utilities, L.L.C.		MSA	5,278	9,908	17,722	25,528	28,340	30,332	30,783
Metropolitan Domestic Water Improvement District		MSA	1,087	0	0	0	0	0	0
Rancho Sahuarita Water Company		MSA	246	492	820	862	882	1,489	1,739
Santa Rosa Water Company		MSA	389	1,166	1,943	2,720	3,139	3,212	3,212
Spanish Trail Water Company		MSA	0	0	0	0	0	445	1,003
Town of Florence		MSA	247	395	972	1,547	2,033	2,324	2,885
Town of Marana		MSA	2,883	4,437	6,002	7,568	9,134	10,699	12,265
Town of Oro Valley	Main	MSA	9,438	0	0	0	758	1,664	2,570
Vail Water Company		MSA	155	0	59	555	1,041	1,532	2,023
Water Utilities Community Facilities District		MSA	0	0	0	0	0	47	140
No Water Provider	Eligible	Outside	2,292	7,693	22,829	27,611	29,962	30,658	31,190
Grand Total			164,883	142,477	187,662	252,963	316,022	369,225	422,162

**TABLE C-5
PROJECTION OF CONSTRUCTED MEMBER LAND HOUSING UNITS**

Year	Phoenix AMA		Pinal AMA	Tucson AMA	Total
	West Portion	East Portion			
2005	32,100	24,600	10,700	9,500	76,900
2006	37,700	29,800	12,700	11,300	91,500
2007	43,100	34,900	14,700	13,100	105,800
2008	48,600	40,200	16,500	14,900	120,200
2009	54,100	45,500	18,000	16,600	134,200
2010	59,500	50,900	19,600	18,000	148,000
2015	101,700	104,900	31,200	28,500	266,300
2020	115,100	122,000	37,400	31,400	305,900
2025	126,500	128,900	39,700	32,800	327,900
2030	131,500	131,100	40,300	33,300	336,200
2035	135,200	132,200	41,200	33,700	342,300

APPENDIX D

DATA TABLES REGARDING PROJECTED OBLIGATIONS

- Table D-1 - CAGR Minimum Reporting Factors
- Table D-2 - Projected Excess Groundwater Use by Existing CAGR Member Lands – Phoenix AMA
- Table D-3 - Projected Excess Groundwater Use by Existing CAGR Member Lands – Pinal AMA
- Table D-4 - Projected Excess Groundwater Use by Existing CAGR Member Lands – Tucson AMA
- Table D-5 - Projected Excess Groundwater Deliveries to Member Lands – By Water Provider – Enrollment Through 2015 – Phoenix AMA
- Table D-6 - Projected Excess Groundwater Deliveries to Member Lands – By Water Provider – Enrollment Through 2015 – Pinal AMA
- Table D-7 - Projected Excess Groundwater Deliveries to Member Lands – By Water Provider – Enrollment Through 2015 – Tucson AMA
- Table D-8 - Projected Excess Groundwater Use by CAGR Member Service Areas
- Table D-9 - Estimated Replenishment Obligations for Current Members
- Table D-10 - Estimated 100-Year Replenishment Obligations with Continued Enrollment Through 2015

TABLE D-1
CAGRD Minimum Reporting Factors

Year	Phx AMA MLs Enrolled Prior to 2004	Phx AMA MLs Enrolled After 2004	Tucson AMA MLs Enrolled Prior to 2004	Tucson AMA MLs Enrolled After 2004	Phx AMA MSAs	Tuc AMA MSAs
1995	1/15	--	1/30	--	--	--
1996	2/15	--	2/30	--	--	--
1997	3/15	--	3/30	--	--	--
1998	4/15	--	4/30	--	--	--
1999	5/15	--	5/30	--	1/15	1/30
2000	6/15	--	6/30	--	2/15	2/30
2001	7/15	--	7/30	--	3/15	3/30
2002	8/15	--	8/30	--	4/15	4/30
2003	9/15	--	9/30	--	5/15	5/30
2004	10/15	2/3	10/30	2/3	6/15	6/30
2005	10/15	2/3	11/30	2/3	7/15	7/30
2006	10/15	2/3	12/30	2/3	8/15	8/30
2007	10/15	2/3	13/30	2/3	9/15	9/30
2008	10/15	2/3	14/30	2/3	10/15	10/30
2009	10/15	2/3	15/30	2/3	10/15	11/30
2010	10/15	2/3	16/30	2/3	10/15	12/30
2011	10/15	2/3	17/30	2/3	10/15	13/30
2012	10/15	2/3	18/30	2/3	10/15	14/30
2013	10/15	2/3	19/30	2/3	10/15	15/30
2014	10/15	2/3	20/30	2/3	10/15	16/30
2015 +	None	2/3	None	2/3	None	None

Notes:

- The minimum factor is multiplied by the member's groundwater use to determine the volume of Excess Groundwater to be reported.
- There are no minimum factors for members in the Pinal AMA.
- For Tucson and Peoria, Excess Groundwater to be reported is based on a negotiated schedule rather than these factors.

TABLE D-2
PROJECTED EXCESS GROUNDWATER USE BY EXISTING CAGRD MEMBER LANDS*
PHOENIX AMA
(UNITS: Acre-feet)

CAGRD ID No.	Subdivision	Portion of AMA	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
49-14-334	99th Avenue & Southern	West	35.03	36.98	37.95	38.27	38.27	38.27	57.41	57.41	57.41	57.41	57.41
03-14-465	Agua Fria Ranch	West	132.41	158.14	171.01	183.88	191.38	201.57	0.00	314.81	314.81	314.81	314.81
03-14-020	Arizona Traditions I	West	9.78	9.20	5.50	6.90	8.03	9.19	0.00	22.15	28.48	31.75	32.00
03-14-061	Arizona Traditions II & III	West	5.09	4.60	2.75	3.45	4.01	4.60	0.00	0.00	0.00	0.00	16.00
03-14-045	Arizona Traditions IV, V, VI, VII	West	16.71	15.10	9.03	11.33	13.18	15.09	0.00	0.00	0.00	0.00	0.00
03-14-462	Arizona Traditions North Parcel XV	West	12.66	14.61	9.83	13.59	16.25	18.94	0.00	49.07	63.08	70.34	70.89
03-14-433	Arizona Traditions North Parcel XVI	West	10.59	10.06	6.21	7.85	9.13	10.46	0.00	25.20	32.40	36.13	36.41
03-14-136	Arizona Traditions VIII, IX & X	West	26.01	24.28	14.97	18.93	22.03	25.22	0.00	0.00	78.14	87.13	87.81
03-14-183	Arizona Traditions XI	West	6.74	6.09	3.64	4.57	5.31	6.08	0.00	0.00	18.86	21.03	21.19
03-14-305	Arizona Traditions XII & XIII	West	20.01	20.35	13.40	17.25	20.47	24.19	0.00	0.00	77.88	86.85	87.52
22-14-223	Bel Fleur	West	30.65	30.65	30.65	30.65	30.65	30.65	0.00	45.98	45.98	45.98	45.98
03-14-186	Bell West Ranch	West	71.79	70.18	45.07	58.89	72.13	83.91	0.00	0.00	0.00	297.26	299.57
42-14-424	Bethany Estates	West	39.35	41.42	42.80	42.80	42.80	42.80	64.20	64.20	64.20	64.20	64.20
41-14-372	Blue Hills	West	104.08	133.76	150.38	165.42	170.17	173.34	279.00	279.00	279.00	279.00	279.00
01-14-371	Blue Horizon Villages, Parcels 1-4	West	94.53	121.30	0.00	1.70	16.07	29.16	0.00	0.00	127.23	133.30	135.62
41-14-296	Buckeye Park	West	33.53	35.41	36.35	36.66	36.66	36.66	54.99	54.99	54.99	54.99	54.99
30-14-098	Buckeye Ranch, Phase I	West	27.06	30.44	33.63	34.57	35.14	36.27	0.00	56.65	56.65	56.65	56.65
01-14-352	Camelback Garden Farms	West	213.64	224.50	0.00	2.63	24.08	42.94	0.00	0.00	174.63	182.96	186.14
12-14-254	Cantera Gates	West	3.26	3.67	3.67	3.67	3.67	3.67	0.00	5.50	5.50	5.50	5.50
03-14-184	Canyon Ridge West	West	79.40	79.40	79.40	79.40	79.40	79.40	0.00	119.09	119.09	119.09	119.09
03-14-171	Citrus Point	West	65.34	65.34	65.34	65.34	65.34	65.34	0.00	98.01	98.01	98.01	98.01
26-14-195	Clearview Estates	West	23.48	23.48	23.48	23.48	23.48	23.48	0.00	35.22	35.22	35.22	35.22
26-14-179	Clearview II	West	29.87	29.87	29.87	29.87	29.87	29.87	0.00	44.80	44.80	44.80	44.80
22-14-472	Colter Commons	West	19.77	20.50	21.23	21.23	21.23	21.23	21.23	21.23	21.23	21.23	21.23
03-14-459	Cottonwood Estates	West	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.14	9.18	10.24	10.32
03-14-054	Dave Brown at West Point-Model Complex	West	1.32	1.20	0.72	0.90	1.04	1.20	0.00	0.00	0.00	4.13	4.16
12-14-032	Deer Village	West	286.21	286.21	286.21	286.21	286.21	286.21	0.00	429.32	429.32	429.32	429.32
12-14-068	Deer Village II	West	86.14	86.14	86.14	86.14	86.14	86.14	0.00	129.21	129.21	129.21	129.21
41-14-373	Dove Cove	West	64.92	83.41	93.84	103.26	106.29	107.97	174.06	174.06	174.06	174.06	174.06
12-14-058	Dove Valley Ranch Parcel 3	West	340.33	340.33	340.33	340.33	340.33	340.33	0.00	510.50	510.50	510.50	510.50
12-14-069	Dove Valley Ranch Parcel 5	West	94.04	94.04	94.04	94.04	94.04	94.04	0.00	141.06	141.06	141.06	141.06
12-14-055	Dove Valley Ranch Parcel 6	West	140.60	140.60	140.60	140.60	140.60	140.60	0.00	210.90	210.90	210.90	210.90
42-14-313	Dreaming Summit Unit 1	West	195.31	202.17	208.57	209.95	209.95	209.95	314.92	314.92	314.92	314.92	314.92
22-14-301A	Dreaming Summit Unit 2A, Parcels 1,2,3	West	106.86	109.94	111.79	115.48	119.18	120.10	180.15	180.15	180.15	180.15	180.15
22-14-301B	Dreaming Summit Unit 2B	West	33.77	34.80	35.41	36.53	37.74	38.00	0.00	57.00	57.00	57.00	57.00
22-14-395	Dreaming Summit Unit 3A,& 3B	West	289.39	318.65	327.59	334.09	344.66	356.04	537.72	537.72	537.72	537.72	537.72

TABLE D-2
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PHOENIX AMA
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CAGRD ID No.	Subdivision	Portion of AMA	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
42-14-446	Dysart Ranch	West	10.12	10.51	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90
26-14-072	Eagle Canyon	West	27.32	27.32	27.32	27.32	27.32	27.32	0.00	40.99	40.99	40.99	40.99
01-14-279	EDC Estates	West	3.44	3.44	0.00	0.04	0.36	0.64	0.00	0.00	0.00	2.72	2.76
41-14-454	Estrella Vista (Valencia)	West	124.53	159.40	179.32	197.59	202.99	206.72	333.12	333.12	333.12	333.12	333.12
15-14-430	Fletcher Heights Parcel 21	West	39.22	41.16	42.32	42.71	42.71	42.71	64.07	64.07	64.07	64.07	64.07
15-14-073	Fletcher Heights, Phases IA, IB, IIA, IIB, IIIA, IIIB	West	804.14	807.24	809.96	809.96	809.96	809.96	0.00	1214.94	1214.94	1214.94	1214.94
22-14-501	Goodyear Planned Regional Center	West	129.97	166.25	187.41	206.15	211.59	215.82	231.54	231.54	231.54	231.54	231.54
03-14-202	Greenway Parc at Surprise Phase 1 & 2	West	71.08	64.24	38.40	48.20	56.07	64.19	0.00	0.00	198.91	221.80	223.53
03-14-220	Greenway Parc at Surprise Three	West	10.60	9.58	5.72	7.18	8.36	9.57	0.00	0.00	29.65	33.06	33.32
03-14-333	Happy Trails Resort No. 10	West	2.57	2.41	1.44	1.81	2.10	2.41	0.00	5.81	7.46	8.32	8.39
03-14-051	Homes by D. Brown at West Point	West	42.52	38.43	22.97	28.83	33.54	38.40	0.00	0.00	119.00	132.69	133.72
12-14-316	Hunter Field Estates	West	14.19	14.86	14.86	14.86	14.86	14.86	22.29	22.29	22.29	22.29	22.29
44-14-331	Ironwood Vista	West	33.21	34.81	35.77	36.09	36.09	36.09	54.13	54.13	54.13	54.13	54.13
01-14-376	Jackrabbit Trails	West	96.56	123.94	0.00	1.74	16.40	29.79	0.00	0.00	130.15	136.36	138.74
03-14-067	Kaufman & Broad at West Point	West	11.35	10.26	6.13	7.69	8.95	10.25	0.00	0.00	0.00	35.41	35.68
03-14-029	Kingswood Parke, Phase 1, 8-11, +	West	35.87	32.42	19.38	24.32	28.30	32.39	0.00	0.00	100.39	111.94	112.81
03-14-231	Legacy Parc	West	100.77	98.44	63.17	82.57	101.17	117.67	0.00	0.00	0.00	416.91	420.15
01-14-130	Litchfield Farms	West	141.24	148.49	0.00	1.77	16.18	28.85	0.00	0.00	117.35	122.95	125.09
01-14-415	Litchfield Farms IIA	West	305.92	323.71	0.00	3.79	34.75	61.95	0.00	0.00	251.97	264.00	268.59
01-14-416	Litchfield Farms IIB	West	323.81	341.80	0.00	4.00	36.64	65.33	0.00	0.00	265.70	278.37	283.22
01-14-112	Litchfield Heights	West	10.58	10.58	0.00	0.12	1.10	1.96	0.00	0.00	0.00	8.35	8.50
01-14-187	Litchfield Heights Unit II	West	13.56	13.56	0.00	0.15	1.41	2.51	0.00	0.00	0.00	10.71	10.89
01-14-204	Litchfield Heights Unit III	West	6.79	6.79	0.00	0.08	0.71	1.26	0.00	0.00	0.00	5.36	5.45
01-14-218	Litchfield Heights Unit IV	West	7.14	7.14	0.00	0.08	0.74	1.32	0.00	0.00	0.00	5.64	5.74
29-14-097	Litchfield Vista Views III	West	45.89	45.89	45.89	45.89	45.89	45.89	0.00	68.83	68.83	68.83	68.83
03-14-095	Litchfields Subdivision	West	12.49	11.28	6.75	8.47	9.85	11.28	0.00	0.00	34.94	38.96	39.26
17-14-194	Mercy Manor	West	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26-14-401	Montana De Oro Ranch	West	9.77	10.22	10.66	10.66	10.66	10.66	15.99	15.99	15.99	15.99	15.99
03-14-227	Montana Farms	West	2.73	2.47	1.47	1.85	2.15	2.46	0.00	0.00	7.64	8.51	8.58
03-14-400	Montana Farms II	West	24.71	23.83	14.69	18.43	21.44	24.55	0.00	59.18	76.08	84.83	85.49
41-14-498	Montana Vista	West	63.28	80.80	91.15	100.30	103.09	104.68	112.64	112.64	112.64	112.64	112.64
01-14-169	Mountain Ranch	West	78.27	100.20	0.00	1.40	13.23	24.06	0.00	0.00	0.00	110.00	111.92
15-14-230	New River Commerce Park	West	33.99	33.99	33.99	33.99	33.99	33.99	0.00	50.99	50.99	50.99	50.99
44-14-342	Norte Vista	West	23.61	24.92	25.57	25.57	25.57	25.57	0.00	0.00	0.00	0.00	38.36
03-14-185	Northwest Ranch	West	59.73	64.43	41.69	56.18	67.97	82.07	0.00	0.00	0.00	295.19	297.48
22-14-269	Palm Valley Parcel 17A & 17B	West	80.47	82.72	83.85	86.86	89.49	90.24	0.00	135.36	135.36	135.36	135.36

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CAGRD ID No.	Subdivision	Portion of AMA	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
22-14-053	Palm Valley Parcel 4	West	32.88	33.95	33.95	33.95	33.95	33.95	0.00	0.00	0.00	0.00	50.92
22-14-229	Palm Valley Phase 1, Parcel 12	West	21.06	21.06	21.06	21.06	21.06	21.06	0.00	31.58	31.58	31.58	31.58
22-14-390	Palm Valley Phase II, Parcel 1	West	63.55	81.59	91.75	101.15	103.78	105.66	0.00	170.33	170.33	170.33	170.33
22-14-392	Palm Valley Phase II, Parcel 10	West	39.86	41.74	42.86	43.24	43.24	43.24	64.86	64.86	64.86	64.86	64.86
22-14-443	Palm Valley Phase II, Parcel 2	West	36.10	37.98	39.10	39.48	39.48	39.48	0.00	59.22	59.22	59.22	59.22
22-14-445	Palm Valley Phase II, Parcel 24	West	18.42	19.18	19.93	19.93	19.93	19.93	0.00	29.89	29.89	29.89	29.89
22-14-232	Palm Valley Phase II, Parcel 5	West	30.46	31.58	31.58	31.58	31.58	31.58	0.00	0.00	47.38	47.38	47.38
22-14-391	Palm Valley Phase II, Parcel 6	West	16.92	17.67	18.42	18.42	18.42	18.42	0.00	27.64	27.64	27.64	27.64
22-14-444	Palm Valley Phase II, Parcel 7	West	23.31	24.44	25.19	25.19	25.19	25.19	0.00	0.00	37.79	37.79	37.79
22-14-170	Palm Valley Phase IIIA	West	122.25	122.25	122.25	122.25	122.25	122.25	0.00	0.00	183.38	183.38	183.38
22-14-292	Palm Valley Phase IIIB	West	130.85	130.85	130.85	130.85	130.85	130.85	0.00	196.28	196.28	196.28	196.28
03-14-075	Parke Row	West	6.70	6.05	3.62	4.54	5.28	6.05	0.00	0.00	0.00	20.90	21.07
01-14-374	Parkman Ranch	West	176.15	225.77	0.00	3.17	29.86	54.15	0.00	0.00	236.69	247.99	252.30
44-14-358	Parkside at Buckeye	West	39.10	50.18	56.37	61.91	63.87	64.85	104.60	104.60	104.60	104.60	104.60
17-14-192	Parkview Casitas	West	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11-14-421	Patton Place Estates	West	153.77	162.93	168.42	168.42	168.42	168.42	168.42	168.42	168.42	168.42	168.42
11-14-502	Patton Place Estates Unit 3	West	24.87	25.76	26.64	26.64	26.64	26.64	26.64	26.64	26.64	26.64	26.64
11-14-450	Peak View Ranch	West	185.15	196.04	202.57	202.57	202.57	202.57	303.86	303.86	303.86	303.86	303.86
22-14-205	PebbleCreek Unit 25	West	5.59	5.59	5.59	5.59	5.59	5.59	0.00	8.39	8.39	8.39	8.39
22-14-275	PebbleCreek Units 26, 27, 28, 29, & 30	West	121.33	133.60	137.22	139.73	144.48	148.94	0.00	225.08	225.08	225.08	225.08
22-14-304	PebbleCreek Units 31-65	West	464.75	547.44	719.11	895.49	1070.81	1194.85	0.00	2805.00	2805.00	2805.00	2805.00
26-14-081	Pinnacle Estates	West	29.03	29.03	29.03	29.03	29.03	29.03	43.54	43.54	43.54	43.54	43.54
11-14-036	Pinnacle West Ranch, Phase I	West	8.69	9.09	9.48	9.48	9.48	9.48	0.00	14.22	14.22	14.22	14.22
03-14-461	Pleasant Valley Country Club, Phase I	West	156.55	181.27	121.84	168.31	201.52	234.81	370.02	405.02	520.66	580.58	585.08
23-14-062	Primrose Estates, Phase I, II, III	West	15.70	16.31	16.31	16.31	16.31	16.31	24.46	24.46	24.46	24.46	24.46
48-14-414	Rainbow Valley Ranch	West	138.86	145.03	151.20	151.20	151.20	151.20	151.20	151.20	151.20	151.20	151.20
41-14-386	Rancho Vista	West	80.01	102.38	115.28	127.03	130.45	132.72	213.87	213.87	213.87	213.87	213.87
41-14-504	Riata West	West	59.30	137.32	223.29	266.67	288.56	309.66	353.84	353.84	353.84	353.84	353.84
03-14-368	Russell Ranch	West	86.59	100.38	67.46	93.40	111.62	130.05	0.00	336.72	432.86	482.68	486.42
03-14-066	Ryland Homes at W. Point & Mdl.	West	15.38	13.90	8.31	10.43	12.13	13.89	0.00	0.00	0.00	47.99	48.36
26-14-180	Salida Del Sol	West	7.02	7.02	7.02	7.02	7.02	7.02	0.00	10.53	10.53	10.53	10.53
52-14-403	Sarival Farms Phase 1	West	42.47	42.47	42.47	42.47	42.47	42.47	63.71	63.71	63.71	63.71	63.71
52-14-438	Sarival Farms Phase 2	West	51.59	51.59	54.62	54.62	54.62	54.62	81.93	81.93	81.93	81.93	81.93
03-14-439	Sierra Montana Phase 1	West	169.90	183.54	118.57	159.80	193.50	233.55	356.95	390.72	502.27	560.07	564.42
15-14-217	Silverton Unit II	West	75.53	75.53	75.53	75.53	75.53	75.53	0.00	113.29	113.29	113.29	113.29
15-14-047	Silverton, Parcels I, II, III	West	83.45	83.45	83.45	83.45	83.45	83.45	125.18	125.18	125.18	125.18	125.18

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23-14-329	Sonoran Ridge Estates Unit 1	West	9.12	9.73	10.03	10.03	10.03	10.03	15.05	15.05	15.05	15.05	15.05
23-14-398	Sonoran Ridge Estates Unit 2	West	9.69	10.28	10.57	10.57	10.57	10.57	15.86	15.86	15.86	15.86	15.86
23-14-449	Sonoran Ridge Estates Unit 3	West	26.57	28.08	28.99	28.99	28.99	28.99	43.48	43.48	43.48	43.48	43.48
48-14-366	Southwest Desert Estates	West	8.13	8.69	8.97	8.97	8.97	8.97	0.00	13.46	13.46	13.46	13.46
26-14-437	Starlight Canyon	West	7.73	7.73	8.18	8.18	8.18	8.18	12.27	12.27	12.27	12.27	12.27
26-14-234	Summit at Sunrise	West	6.32	6.32	6.74	6.74	6.74	6.74	0.00	10.11	10.11	10.11	10.11
44-14-440A	Sundance Parcel 12	West	17.58	18.49	19.10	19.10	19.10	19.10	28.65	28.65	28.65	28.65	28.65
44-14-440B	Sundance Parcel 13	West	29.95	31.21	32.16	32.47	32.47	32.47	48.71	48.71	48.71	48.71	48.71
44-14-464	Sundance Parcel 15	West	34.98	44.71	50.49	55.49	57.07	58.12	93.49	93.49	93.49	93.49	93.49
44-14-451A	Sundance Parcel 18	West	38.52	40.46	41.63	42.02	42.02	42.02	63.03	63.03	63.03	63.03	63.03
44-14-499	Sundance Parcel 19	West	44.31	56.73	63.78	70.16	72.17	73.52	78.89	78.89	78.89	78.89	78.89
44-14-458	Sundance Parcel 2	West	59.77	76.70	86.38	95.01	97.78	99.50	160.14	160.14	160.14	160.14	160.14
44-14-451B	Sundance Parcel 20	West	40.74	42.84	44.10	44.52	44.52	44.52	66.78	66.78	66.78	66.78	66.78
44-14-500	Sundance Parcel 20A	West	10.07	10.74	11.08	11.08	11.08	11.08	11.08	11.08	11.08	11.08	11.08
44-14-451C	Sundance Parcel 21	West	31.90	33.27	34.30	34.65	34.65	34.65	51.97	51.97	51.97	51.97	51.97
44-14-440C	Sundance Parcel 28A	West	28.11	29.59	30.48	30.77	30.77	30.77	46.16	46.16	46.16	46.16	46.16
44-14-496	Sundance Parcel 28B	West	53.71	56.40	58.07	58.41	58.41	58.41	58.41	58.41	58.41	58.41	58.41
44-14-440D	Sundance Parcel 29	West	27.70	29.04	30.04	30.04	30.04	30.04	45.06	45.06	45.06	45.06	45.06
44-14-492	Sundance Parcel 31	West	85.14	109.12	122.82	135.05	138.97	141.41	151.69	151.69	151.69	151.69	151.69
44-14-452	Sundance Parcel 36	West	32.22	33.85	34.83	35.15	35.15	35.15	52.73	52.73	52.73	52.73	52.73
44-14-441	Sundance Parcel 37A	West	53.68	56.16	58.02	58.33	58.33	58.33	87.50	87.50	87.50	87.50	87.50
44-14-466	Sundance Parcels 14 & 24	West	33.42	35.10	36.23	36.51	36.51	36.51	54.76	54.76	54.76	54.76	54.76
44-14-423	Sundance Parcels 37B & 40	West	69.60	78.33	86.16	88.62	90.19	93.32	145.35	145.35	145.35	145.35	145.35
15-14-052	Sunrise at Desert Mountain	West	18.75	18.75	18.75	18.75	18.75	18.75	0.00	28.13	28.13	28.13	28.13
22-14-150	Sunrise at Palm Valley	West	149.27	149.27	149.27	149.27	149.27	149.27	0.00	223.91	223.91	223.91	223.91
41-14-347	Sunset Point	West	87.73	112.25	126.42	139.07	142.90	145.58	234.46	234.46	234.46	234.46	234.46
03-14-297	Surprise Farms 1A North, Parcels 1-4	West	38.45	44.57	30.00	41.39	49.51	57.77	0.00	149.40	192.05	214.16	215.82
03-14-298	Surprise Farms 1A South	West	43.44	50.38	33.85	46.75	56.00	65.15	0.00	168.76	216.95	241.92	243.79
03-14-299	Surprise Farms 1B North	West	27.16	31.49	21.17	29.21	34.95	40.72	0.00	105.42	135.52	151.11	152.28
03-14-300	Surprise Farms 1B South	West	41.17	47.73	32.15	44.41	53.12	61.86	0.00	160.16	205.89	229.58	231.36
03-14-370	Tash Property	West	19.70	22.73	15.32	21.13	25.35	29.52	0.00	76.34	98.14	109.43	110.28
44-14-387	Terravista	West	63.83	81.75	91.79	101.12	103.99	105.78	170.50	170.50	170.50	170.50	170.50
22-14-409	The Village at Litchfield Park, Phase I	West	119.42	153.10	172.24	189.08	194.44	198.27	319.22	319.22	319.22	319.22	319.22
03-14-121	U.S. Homes at West Point Towne Center	West	21.88	19.77	11.82	14.83	17.26	19.76	0.00	0.00	0.00	68.26	68.79
22-14-317	Veranda	West	61.77	61.77	61.77	61.77	61.77	61.77	92.66	92.66	92.66	92.66	92.66
22-14-463	Veranda II	West	29.12	30.42	31.71	31.71	31.71	31.71	47.57	47.57	47.57	47.57	47.57

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CAGRD ID No.	Subdivision	Portion of AMA	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
03-14-474	Verrado Parcel 4.601	West	3.71	3.49	2.17	2.72	3.16	3.62	0.00	8.73	11.23	12.52	12.62
03-14-475	Verrado Parcel 4.602	West	4.39	4.17	2.61	3.28	3.81	4.36	0.00	10.52	13.52	15.07	15.19
03-14-476	Verrado Parcel 4.603	West	6.49	6.16	3.80	4.77	5.54	6.35	0.00	15.30	19.67	21.93	22.10
03-14-477	Verrado Parcel 4.604	West	2.52	2.47	1.47	1.85	2.15	2.46	0.00	5.94	7.64	8.51	8.58
03-14-478	Verrado Parcel 4.605	West	7.85	7.51	4.66	5.84	6.80	7.78	0.00	18.76	24.12	26.90	27.11
03-14-479	Verrado Parcel 4.606	West	9.27	8.78	5.49	6.89	8.01	9.17	0.00	22.11	28.42	31.69	31.94
03-14-480	Verrado Parcel 4.607	West	8.67	8.24	5.04	6.33	7.37	8.43	0.00	20.33	26.13	29.14	29.37
03-14-481	Verrado Parcel 4.608	West	5.17	4.95	3.05	3.82	4.45	5.09	0.00	12.27	15.77	17.59	17.73
03-14-482	Verrado Parcel 4.609	West	6.00	5.65	3.52	4.41	5.14	5.88	0.00	14.17	18.22	20.31	20.47
03-14-483	Verrado Parcel 4.610	West	7.21	7.12	4.44	5.80	6.75	7.72	11.34	12.41	15.95	17.79	17.93
03-14-484	Verrado Parcel 4.611	West	6.02	5.99	3.74	4.90	5.70	6.53	9.58	10.49	13.48	15.04	15.15
03-14-485	Verrado Parcel 4.612	West	6.91	6.62	4.11	5.15	5.99	6.86	0.00	16.54	21.27	23.71	23.90
03-14-486	Verrado Parcel 4.613	West	4.39	4.17	2.55	3.20	3.73	4.27	0.00	10.29	13.23	14.75	14.86
03-14-487	Verrado Parcel 4.614	West	4.80	4.58	2.81	3.52	4.10	4.69	0.00	11.31	14.53	16.21	16.33
03-14-488	Verrado Parcel 4.615	West	4.79	4.57	2.81	3.52	4.10	4.69	0.00	11.31	14.53	16.21	16.33
03-14-489	Verrado Parcel 5.702	West	5.15	4.87	3.04	3.82	4.44	5.09	0.00	12.26	15.76	17.58	17.71
03-14-490	Verrado Parcel 5.703	West	5.43	5.11	3.17	3.98	4.63	5.30	0.00	12.79	16.44	18.33	18.47
11-14-088	Vida Del Sol Estates	West	41.43	43.65	44.76	45.13	45.13	45.13	0.00	67.70	67.70	67.70	67.70
17-14-001	Villa Rica Subdivision	West	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03-14-050	Villages at West Point	West	33.24	30.04	17.96	22.54	26.22	30.02	0.00	0.00	0.00	103.73	104.54
22-14-405	Wigwam Creek North Phase 1	West	119.94	123.98	127.65	128.75	128.75	128.75	0.00	0.00	0.00	0.00	193.12
22-14-412	Wigwam Creek North Phase 2	West	196.22	234.61	253.43	272.24	283.38	298.74	0.00	0.00	466.54	466.54	466.54
22-14-493	Wigwam Creek North Phase 2B	West	48.75	51.31	53.88	53.88	53.88	53.88	53.88	53.88	53.88	53.88	53.88
22-14-364	Wigwam Creek Parcels 1-12	West	444.18	477.17	496.68	523.63	531.53	542.21	817.50	817.50	817.50	817.50	817.50
03-14-289	Youngtown Gardens Condominiums	West	6.76	6.93	6.99	6.99	6.99	6.99	0.00	10.48	10.48	10.48	10.48
Subtotal West Phoenix AMA			10,754	11,718	10,172	10,954	11,649	12,271	8,069	17,262	20,591	22,486	22,850
01-15-125	Acacia at Superstition Foothills	East	3.86	3.92	4.21	4.26	4.31	4.35	0.00	0.00	0.00	0.00	0.00
01-14-196	Adobe Estates	East	27.26	28.39	29.01	29.36	29.68	29.97	0.00	0.00	0.00	33.84	33.95
01-15-164	Aldea en la Colina del Cascabel	East	5.88	6.22	6.54	6.62	6.69	6.76	0.00	0.00	0.00	0.00	0.00
01-15-280	Apache Dream Townhomes	East	4.29	4.51	4.73	4.79	4.84	4.88	0.00	0.00	0.00	5.52	5.53
06-14-191	Apache Peak II (Joy Ranch)	East	7.09	7.33	7.33	7.33	7.33	7.33	0.00	11.00	11.00	11.00	11.00
06-14-397	Apache Peak III	East	7.94	8.47	8.73	8.73	8.73	8.73	13.10	13.10	13.10	13.10	13.10
06-14-011	Apache Peak Ranch	East	6.88	6.88	6.88	6.88	6.88	6.88	0.00	10.32	10.32	10.32	10.32
02-14-134	Arroyo De La Reina	East	7.94	8.23	8.51	8.51	8.51	8.51	0.00	0.00	0.00	12.77	12.77
01-15-283	Barkley Hill	East	2.82	2.99	3.15	3.19	3.22	3.25	0.00	0.00	0.00	0.00	3.69

TABLE D-2
PROJECTED EXCESS GROUNDWATER USE BY EXISTING CAGRD MEMBER LANDS*
PHOENIX AMA
(UNITS: Acre-feet)

CAGRD ID No.	Subdivision	Portion of AMA	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
01-15-035	Broadway Homes	East	1.08	1.10	1.12	1.13	1.14	1.15	0.00	0.00	0.00	0.00	0.00
01-14-177	Camberley Place	East	32.71	33.22	33.68	34.09	34.45	34.79	0.00	0.00	0.00	39.29	39.41
25-15-257	Cambria	East	270.08	291.98	313.45	326.33	343.93	349.52	0.00	537.16	537.16	537.16	537.16
01-15-324	Canyon View Estates at Superstition Foothills	East	4.31	4.61	4.91	4.97	5.02	5.07	0.00	0.00	5.67	5.73	5.75
25-15-406	Castlegate	East	188.00	224.51	242.76	260.70	271.58	286.00	446.77	446.77	446.77	446.77	446.77
02-14-215	Circle G at Queen Creek IV	East	46.27	49.21	50.68	50.68	50.68	50.68	0.00	76.02	76.02	76.02	76.02
02-14-006	Circle G at Queen Creek, Unit I	East	21.44	21.99	32.98	32.98	32.98	32.98	32.98	32.98	32.98	32.98	32.98
02-14-039	Circle G at Queen Creek, Unit II	East	27.26	42.02	42.02	42.02	42.02	42.02	42.02	42.02	42.02	42.02	42.02
02-14-074	Circle G at Queen Creek, Unit II A	East	16.18	17.26	25.90	25.90	25.90	25.90	25.90	25.90	25.90	25.90	25.90
02-14-141	Circle G at Queen Creek, Unit III	East	26.44	27.18	40.76	40.76	40.76	40.76	40.76	40.76	40.76	40.76	40.76
02-14-389	Citrus Cove	East	39.10	39.10	41.55	41.55	41.55	41.55	62.32	62.32	62.32	62.32	62.32
25-14-193	Cloud Creek Ranch	East	8.24	8.24	8.76	8.76	8.76	8.76	0.00	13.14	13.14	13.14	13.14
02-14-417	Cortina	East	317.76	379.71	410.47	440.81	458.93	483.80	755.41	755.41	755.41	755.41	755.41
01-15-189	Cottonwood Village at Superstition Foothills	East	3.42	3.42	3.42	3.42	3.42	3.42	0.00	0.00	0.00	0.00	3.42
02-14-303	Country Park Estates	East	23.90	25.09	26.29	26.29	26.29	26.29	39.43	39.43	39.43	39.43	39.43
02-14-214	Creek View Ranches	East	9.89	9.89	9.89	9.89	9.89	9.89	0.00	14.83	14.83	14.83	14.83
02-14-008	Crismon Ranch Estates	East	15.81	23.72	23.72	23.72	23.72	23.72	23.72	23.72	23.72	23.72	23.72
02-14-336	Egyptian Valley Phases 1 & 2	East	78.00	82.00	84.50	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00
01-15-203	El Mirador at Superstition Mt (Peralta)	East	10.22	10.84	10.99	11.12	11.24	11.35	0.00	0.00	12.69	12.82	12.86
02-14-102	Emans Estates	East	7.77	7.77	11.66	11.66	11.66	11.66	11.66	11.66	11.66	11.66	11.66
02-14-460	Emperor Estates Phase 1 and 2	East	124.45	159.75	179.72	197.83	203.40	207.12	333.66	333.66	333.66	333.66	333.66
02-15-455	Encanto Real, at San Tan Vistas	East	77.37	81.92	84.20	84.20	84.20	84.20	126.30	126.30	126.30	126.30	126.30
01-15-176	Estates at Gold Canyon	East	4.57	4.95	5.17	5.23	5.29	5.34	0.00	0.00	0.00	6.03	6.05
01-15-264	Estates at Superstition Mountain	East	6.36	6.69	7.01	7.10	7.18	7.25	0.00	0.00	8.10	8.18	8.21
06-14-003	Estates North, Unit II	East	6.39	6.39	6.39	6.39	6.39	6.39	0.00	9.58	9.58	9.58	9.58
02-14-422	Estrella Vista (Queen Creek)	East	9.45	9.78	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12
01-15-076	Foothills at Gold Canyon Ranch	East	13.17	13.38	13.56	13.73	13.87	14.01	0.00	0.00	0.00	15.82	15.87
01-15-017	Gold Canyon East	East	15.42	15.66	15.87	16.06	16.24	16.40	0.00	0.00	0.00	0.00	18.57
01-15-060	Gold Canyon East, Phase 4, Parcels 1, 2, 3	East	16.24	16.98	17.33	17.54	17.73	17.90	0.00	0.00	0.00	0.00	0.00
01-15-207	Golden Eagle at Spstn Fthls	East	14.31	14.99	15.20	15.38	15.55	15.70	0.00	0.00	0.00	17.73	17.79
02-15-378	Goldmine Mountain	East	212.15	217.94	219.87	219.87	219.87	219.87	329.80	329.80	329.80	329.80	329.80
02-15-420	Goldmine Mountain Estates	East	81.60	90.35	94.72	97.63	97.63	97.63	97.63	97.63	97.63	97.63	97.63
25-15-070	Golf View Estates	East	20.27	20.27	20.27	20.27	20.27	20.27	0.00	30.40	30.40	30.40	30.40
35-14-228	Granite Mountain Ranch	East	30.10	31.41	32.39	32.72	32.72	32.72	0.00	49.08	49.08	49.08	49.08
06-14-335	Greer Ranch	East	38.66	40.83	41.91	42.18	42.18	42.18	63.27	63.27	63.27	63.27	63.27
01-15-148	Greythorn Village at Superstition Foothills	East	5.00	5.31	5.61	5.68	5.74	5.80	0.00	0.00	6.48	6.55	6.57

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PHOENIX AMA
(UNITS: Acre-feet)

CAGRD ID No.	Subdivision	Portion of AMA	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
34-14-209	H Bar H Estates	East	4.36	4.36	4.65	4.65	4.65	4.65	0.00	6.98	6.98	6.98	6.98
01-15-249	Hieroglyphic Trails	East	2.82	2.99	3.03	3.07	3.10	3.13	0.00	0.00	0.00	0.00	3.55
01-15-140	Ironwood Cove II	East	6.17	6.27	6.35	6.43	6.50	6.56	0.00	0.00	0.00	7.41	7.43
01-15-129	Ironwood Estates	East	41.49	42.14	42.71	43.23	43.70	44.13	0.00	0.00	0.00	49.84	49.99
04-14-367	Judson Estates	East	13.11	14.01	14.67	14.67	14.67	14.67	0.00	0.00	0.00	0.00	0.00
01-15-149	Juniper Village at Superstition Foothills	East	17.14	18.46	19.42	19.65	19.86	20.06	0.00	0.00	22.42	22.65	22.72
25-15-408	Kenworthy & Ocotillo	East	128.37	144.17	158.65	163.26	165.89	171.82	178.40	178.40	178.40	178.40	178.40
04-14-016	Lincoln at Tatum Subdivision	East	6.70	6.70	6.79	6.79	6.79	6.79	10.18	10.18	10.18	10.18	10.18
04-14-019	Lincoln Place	East	22.44	22.44	22.75	22.75	22.75	22.75	0.00	0.00	34.13	34.13	34.13
01-15-302	Lost Dutchman Gardens	East	4.90	5.29	5.52	5.58	5.64	5.70	0.00	0.00	0.00	6.44	6.46
01-15-307	Lost Gold Estates Unit I	East	5.68	6.00	6.08	6.15	6.22	6.28	0.00	0.00	7.02	7.09	7.11
01-15-308	Lost Gold Estates Unit II	East	4.77	5.07	5.38	5.44	5.50	5.56	0.00	0.00	6.21	6.27	6.29
01-15-309	Lost Gold Estates Unit III	East	3.18	3.23	3.51	3.55	3.59	3.62	0.00	0.00	0.00	0.00	4.10
01-14-007	Meridian Hills	East	100.84	102.43	103.82	105.08	106.21	107.27	0.00	0.00	0.00	121.13	121.50
01-15-057	Meridian Manor	East	48.99	55.97	62.41	64.92	66.75	69.69	0.00	0.00	0.00	0.00	82.07
01-14-262	Merrill Ranch	East	16.72	17.68	18.63	18.86	19.06	19.25	0.00	0.00	21.51	21.74	21.80
01-15-188	Mountain Whisper at Gold Canyon Ranch	East	5.48	5.87	6.11	6.18	6.25	6.31	0.00	0.00	0.00	7.13	7.15
01-15-021	Mountainbrook Village, Parcel 11	East	11.38	11.56	11.71	11.85	11.98	12.10	0.00	0.00	0.00	0.00	13.71
01-15-084	Mountainbrook Village, Parcels 16A & 17	East	3.75	3.81	3.86	3.91	3.95	3.99	0.00	0.00	0.00	0.00	0.00
02-14-320	Ocotillo Heights	East	82.78	86.63	89.52	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
02-14-351	Orchard Ranchettes II, Ph B,C&D	East	174.81	184.42	190.18	190.18	190.18	190.18	285.27	285.27	285.27	285.27	285.27
02-14-224	Orchard Ranchettes II, Phase A	East	10.65	10.99	10.99	10.99	10.99	10.99	0.00	16.49	16.49	16.49	16.49
02-14-495	Orchard Ranchettes III, Phases A and B	East	16.25	17.64	18.68	19.37	19.37	19.37	0.00	0.00	0.00	0.00	0.00
02-14-037	Orchard Ranchettes Phase 1&2	East	88.20	88.20	88.20	88.20	88.20	88.20	88.20	88.20	88.20	88.20	88.20
04-14-457	Paradise View Villas Condominiums	East	6.87	7.15	7.54	7.54	7.54	7.54	0.00	11.32	11.32	11.32	11.32
01-15-116	Parcel 10, 14b, & 14c at Mountainbrook Village	East	13.41	13.62	13.81	13.98	14.13	14.27	0.00	0.00	0.00	0.00	0.00
01-15-429	Parcel 14A at Superstition Foothills	East	14.99	15.92	16.83	17.04	17.22	17.39	18.42	19.10	19.44	19.64	19.70
01-15-181	Parcel 15 at Mountainbrook Village	East	5.45	5.70	5.78	5.85	5.91	5.97	0.00	0.00	0.00	0.00	0.00
01-15-114	Parcel 18 at Mountainbrook Village	East	8.75	9.18	9.30	9.41	9.52	9.61	0.00	0.00	0.00	0.00	0.00
01-15-115	Parcel 19 at Mountainbrook Village	East	22.42	22.89	23.20	23.48	23.73	23.97	0.00	0.00	0.00	0.00	0.00
01-15-491	Parcel 21A at Superstition Foothills	East	2.73	3.00	3.04	3.08	3.11	3.14	3.33	3.45	3.51	3.55	3.56
01-15-100	Parcel 22 East at Gold Canyon Ranch	East	21.48	21.82	22.11	22.38	22.62	22.85	0.00	0.00	0.00	0.00	0.00
01-15-093	Parcel 22 West at Gold Canyon Ranch	East	9.08	9.22	9.35	9.46	9.56	9.66	0.00	0.00	0.00	0.00	0.00
01-15-077	Parcel 24 East at Gold Canyon Ranch	East	15.89	16.63	17.02	17.23	17.41	17.58	0.00	0.00	0.00	0.00	0.00
01-15-092	Parcel 24 West at Gold Canyon Ranch	East	16.00	16.25	16.47	16.67	16.85	17.02	0.00	0.00	0.00	0.00	0.00
01-15-101	Parcel 25 North at Gold Canyon Ranch	East	14.99	15.22	15.43	15.61	15.78	15.94	0.00	0.00	0.00	0.00	0.00

TABLE D-2
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PHOENIX AMA
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01-15-108	Parcel 25 South at Gold Canyon Ranch	East	13.81	14.02	14.21	14.39	14.54	14.69	0.00	0.00	0.00	0.00	0.00
01-15-159A	Parcel 26-1A at Gold Canyon Ranch	East	2.44	2.47	2.66	2.70	2.72	2.75	0.00	0.00	0.00	3.11	3.12
01-15-159B	Parcel 26-2A at Gold Canyon Ranch	East	7.00	7.11	7.21	7.29	7.37	7.45	0.00	0.00	0.00	0.00	0.00
01-15-159C	Parcel 26B at Gold Canyon Ranch	East	13.39	14.38	15.04	15.22	15.39	15.54	0.00	0.00	17.37	17.55	17.60
01-15-159D	Parcel 26C at Gold Canyon Ranch	East	7.46	7.88	7.99	8.09	8.17	8.26	0.00	0.00	0.00	9.32	9.35
01-15-222	Parcel 6 at Superstition Foothills	East	7.72	8.30	8.65	8.76	8.85	8.94	0.00	0.00	9.99	10.09	10.12
01-14-137	Parkwood East	East	64.98	66.01	66.90	67.72	68.44	69.12	0.00	0.00	0.00	78.06	78.30
01-14-138	Parkwood East II	East	40.77	41.41	41.98	42.49	42.94	43.37	0.00	0.00	48.47	48.98	49.13
25-15-469	Pecan Creek North	East	358.29	427.97	462.38	496.79	517.00	544.96	850.99	850.99	850.99	850.99	850.99
02-14-322	Pegasus Airpark, Unit 1	East	124.26	129.78	135.31	135.31	135.31	135.31	202.96	202.96	202.96	202.96	202.96
01-15-263	Peralta Preserve Units I, II, & III	East	95.42	104.81	114.22	120.21	128.07	131.45	0.00	0.00	0.00	0.00	152.56
01-15-325	Petroglyph Estates at Superstition Foothills	East	11.36	12.23	12.86	13.02	13.16	13.29	0.00	0.00	14.85	15.00	15.05
01-15-147	Pinyon Village at Superstition Foothills	East	10.22	10.84	11.46	11.60	11.72	11.84	0.00	0.00	0.00	13.37	13.41
01-15-124	Ponderosa at Superstition Foothills	East	16.81	17.99	18.94	19.17	19.37	19.57	0.00	0.00	0.00	0.00	0.00
01-15-199	Purple Sage II	East	3.41	3.71	3.88	3.92	3.97	4.01	0.00	0.00	0.00	0.00	4.54
01-15-200	Purple Sage III	East	1.29	1.43	1.45	1.47	1.49	1.50	0.00	0.00	0.00	0.00	1.70
01-15-182	Quail Canyon	East	8.40	9.00	9.35	9.47	9.57	9.66	0.00	0.00	10.80	10.91	10.95
02-14-168	Queen Creek Ranch Estates	East	2.21	2.52	2.52	2.52	2.52	2.52	0.00	3.79	3.79	3.79	3.79
02-14-110	Queen Creek Ranchettes III	East	20.50	21.64	22.40	22.40	22.40	22.40	0.00	33.60	33.60	33.60	33.60
02-14-255	Queenland Manor	East	132.21	148.80	163.88	168.41	171.43	176.96	0.00	275.99	275.99	275.99	275.99
01-15-219	Ranch 160	East	121.87	158.75	181.27	201.61	209.62	215.49	0.00	254.14	258.68	261.40	262.20
02-14-002	Ranchos Hacienda De Caballos, Phase 1	East	6.82	6.82	6.82	6.82	6.82	6.82	0.00	10.24	10.24	10.24	10.24
02-14-012	Ranchos Hacienda De Caballos, Phase 2	East	6.47	6.47	6.47	6.47	6.47	9.70	9.70	9.70	9.70	9.70	9.70
02-14-172	Ranchos Paseo de Caballos	East	9.53	9.53	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16
01-15-105	Renaissance Park	East	18.99	19.28	19.55	19.78	20.00	20.19	0.00	0.00	0.00	0.00	22.88
01-15-026	Renaissance Point, Parcel 1, Phase 1	East	12.11	12.30	12.47	12.62	12.76	12.88	0.00	0.00	0.00	14.55	14.59
01-15-027	Renaissance Point, Parcel 1, Phase 2	East	0.83	0.85	0.86	0.87	0.88	0.89	0.00	0.00	0.00	1.00	1.01
01-15-034	Renaissance Point, Parcel 2	East	29.34	29.80	30.20	30.57	30.90	31.21	0.00	0.00	0.00	35.24	35.35
35-14-332	Rio Mountain Estates	East	26.72	28.05	28.85	29.12	29.12	29.12	43.68	43.68	43.68	43.68	43.68
08-14-135	Rio Verde Estates	East	2.84	2.94	3.04	3.04	3.05	3.05	0.00	0.00	0.00	0.00	5.28
25-14-321	Rittenhouse Ranch on the Creek	East	84.25	107.63	121.27	133.44	137.34	139.77	150.00	150.00	150.00	150.00	150.00
02-14-287	Roman Estates Phase 3	East	8.73	9.19	9.19	9.19	9.19	9.19	0.00	13.79	13.79	13.79	13.79
02-14-201	Roman Estates Phase 4	East	39.88	41.31	41.31	41.31	41.31	41.31	61.96	61.96	61.96	61.96	61.96
02-14-293	Roman Estates Phase 6	East	6.94	7.52	7.52	7.52	7.52	7.52	11.28	11.28	11.28	11.28	11.28
02-14-133	Roman Estates Phase I & II	East	22.56	23.46	23.46	23.46	23.46	23.46	0.00	35.19	35.19	35.19	35.19
01-14-277	Sagewood I	East	7.10	7.68	8.02	8.12	8.20	8.28	0.00	0.00	9.26	9.36	9.38

TABLE D-2
PROJECTED EXCESS GROUNDWATER USE BY EXISTING CAGRD MEMBER LANDS*
PHOENIX AMA
(UNITS: Acre-feet)

CAGRD ID No.	Subdivision	Portion of AMA	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
01-14-278	Sagewood II	East	6.87	7.45	7.78	7.88	7.96	8.04	0.00	0.00	8.99	9.08	9.11
01-14-357	Salerno Ranch	East	29.55	30.94	31.60	31.98	32.33	32.65	0.00	35.85	36.49	36.87	36.98
02-14-059	San Marqui Estates	East	11.59	12.13	12.13	12.13	12.13	12.13	0.00	18.20	18.20	18.20	18.20
02-14-260	San Tan Vistas Ranch	East	30.11	31.31	31.31	31.31	31.31	31.31	0.00	46.97	46.97	46.97	46.97
38-14-250A	Santan Vista, Phase 1	East	55.60	58.87	60.51	60.51	60.51	60.51	0.00	90.76	90.76	90.76	90.76
38-14-250B	Santan Vista, Phase 2	East	282.92	297.64	307.45	309.08	309.08	309.08	463.63	463.63	463.63	463.63	463.63
38-14-250C	Santan Vista, Phase 3	East	137.70	144.86	150.22	150.22	150.22	150.22	150.22	150.22	150.22	150.22	150.22
04-14-494	Sienna Condominiums	East	14.65	18.86	21.46	23.69	24.37	24.76	26.60	26.60	26.60	26.60	26.60
01-15-216	Sierra Entrada Garden Homes, Unit II	East	1.07	1.24	1.26	1.28	1.29	1.30	0.00	0.00	0.00	1.47	1.48
01-15-178	Sierra Vista at Gold Canyon Ranch	East	16.13	17.31	18.02	18.40	18.59	18.78	0.00	0.00	0.00	0.00	21.27
01-14-225	Signal Butte Manor	East	36.91	37.49	38.00	38.46	38.87	39.26	0.00	0.00	43.87	44.33	44.47
01-14-251	Signal Butte Manor II	East	66.63	67.68	68.60	69.43	70.18	70.87	0.00	0.00	79.20	80.04	80.28
01-14-381	Signal Butte Manor III	East	26.52	28.02	28.40	28.74	29.05	29.34	0.00	32.21	32.79	33.13	33.24
01-14-290	Silverwood Units I & II	East	28.40	29.78	30.42	30.79	31.12	31.43	0.00	0.00	35.13	35.49	35.60
36-15-233	Skyline Vista Ranch	East	27.05	28.35	29.13	29.39	29.39	29.39	0.00	44.09	44.09	44.09	44.09
06-14-295	Softwinds Desert View Estates	East	4.47	4.75	4.75	4.75	4.75	4.75	7.13	7.13	7.13	7.13	7.13
02-14-339	Sonokai Ranch, San Tan Vistas	East	64.58	66.89	69.19	69.19	69.19	69.19	103.79	103.79	103.79	103.79	103.79
02-14-337	Sonokai Ranch, The Equestrian	East	53.14	55.35	57.57	57.57	57.57	57.57	86.35	86.35	86.35	86.35	86.35
02-14-338	Sonokai Ranch, The Meadows	East	39.14	40.92	42.70	42.70	42.70	42.70	64.05	64.05	64.05	64.05	64.05
02-14-306	Sossaman Estates	East	245.25	315.06	354.52	389.73	401.26	407.94	657.44	657.44	657.44	657.44	657.44
02-14-031	South Creek Ranch	East	8.31	8.31	8.31	8.31	8.31	8.31	12.47	12.47	12.47	12.47	12.47
01-15-119	Sunrise at Gold Canyon	East	26.21	26.62	26.99	27.31	27.61	27.88	0.00	0.00	0.00	31.49	31.58
01-15-090	Sunrise Canyon	East	85.69	87.04	88.22	89.29	90.25	91.15	0.00	0.00	0.00	102.93	103.24
01-15-208	Sunset Village at Spstn Fthlls	East	8.63	9.23	9.59	9.70	9.81	9.90	0.00	0.00	0.00	11.18	11.22
01-15-166	Superior Highlands	East	38.63	40.54	41.69	42.07	42.07	42.07	0.00	0.00	42.07	42.07	42.07
01-15-238	Superstition Foothills, Parcel 23A	East	6.81	7.15	7.25	7.34	7.42	7.49	0.00	0.00	8.37	8.46	8.48
01-15-239	Superstition Foothills, Parcel 23B	East	5.45	5.77	6.08	6.15	6.22	6.28	0.00	0.00	7.02	7.09	7.11
01-15-240	Superstition Foothills, Parcel 27A	East	12.04	12.92	13.56	13.73	13.87	14.01	0.00	0.00	15.66	15.82	15.87
01-15-241	Superstition Foothills, Parcel 27B	East	8.86	9.46	10.05	10.18	10.29	10.39	0.00	0.00	11.61	11.73	11.77
01-15-242	Superstition Foothills, Parcel 28A	East	15.67	16.61	17.54	17.75	17.94	18.12	0.00	0.00	20.25	20.46	20.52
01-15-243	Superstition Foothills, Parcel 28B	East	21.57	22.84	23.85	24.37	24.64	24.88	0.00	0.00	27.81	28.10	28.18
01-14-276	Superstition Heights	East	17.64	17.92	18.16	18.38	18.58	18.76	0.00	0.00	0.00	0.00	21.25
01-15-014	Superstition Highlands	East	21.57	23.07	24.08	24.61	24.88	25.12	0.00	0.00	28.08	28.37	28.46
01-15-190	Sycamore Village at Superstition Foothills	East	7.04	7.61	7.95	8.05	8.13	8.21	0.00	0.00	0.00	9.28	9.30
02-14-323	TerraRanch at Queen Creek	East	56.71	60.05	62.27	62.27	62.27	62.27	0.00	0.00	0.00	93.41	93.41
01-15-120	Tesoro at Gold Canyon East	East	9.89	10.64	11.15	11.28	11.40	11.52	0.00	0.00	0.00	0.00	0.00

TABLE D-2
PROJECTED EXCESS GROUNDWATER USE BY EXISTING CAGRD MEMBER LANDS*
PHOENIX AMA
(UNITS: Acre-feet)

CAGRD ID No.	Subdivision	Portion of AMA	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
25-15-435	The Cottages at Castlegate Parcel 1 and Parcel 2	East	46.29	59.61	66.90	73.56	75.78	77.05	82.76	82.76	82.76	82.76	82.76
02-14-413	The Pecans	East	541.87	691.35	781.03	859.51	881.93	896.88	1446.22	1446.22	1446.22	1446.22	1446.22
25-15-436	The Villages at Castlegate	East	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.37	12.37	12.37	12.37
02-14-345	The Villages at Queen Creek, Phase 1	East	426.44	479.74	527.80	542.66	552.27	570.62	890.01	890.01	890.01	890.01	890.01
02-14-473	The Villages at Queen Creek, Phase II	East	78.27	85.73	89.45	93.18	93.18	93.18	93.18	93.18	93.18	93.18	93.18
02-14-426	The Villages at Queen Creek, Phase IIA	East	175.43	209.65	226.61	243.57	253.43	267.00	417.15	417.15	417.15	417.15	417.15
01-14-442	Tonto Forest Estates	East	26.05	27.56	29.05	29.41	29.72	30.02	31.79	32.96	33.54	33.90	34.00
08-14-030	Tonto Verde Unit 4	East	10.00	10.38	10.38	10.39	10.39	10.40	0.00	0.00	17.64	17.90	18.00
08-14-106	Tonto Verde Unit 5	East	3.48	3.48	3.48	3.48	3.48	3.48	0.00	0.00	0.00	0.00	6.03
08-14-167	Tonto Verde Unit 6	East	5.01	5.28	5.46	5.46	5.46	5.46	0.00	0.00	0.00	0.00	9.46
08-14-210	Tonto Verde Unit 7	East	14.60	15.31	15.82	15.93	15.94	15.95	0.00	0.00	0.00	27.45	27.61
08-14-267	Tonto Verde Unit 8	East	6.18	6.39	6.39	6.39	6.40	6.40	0.00	0.00	0.00	11.01	11.08
08-14-340	Tonto Verde Unit 9	East	8.92	9.43	9.74	9.74	9.75	9.75	0.00	0.00	16.54	16.78	16.88
01-15-198	Toscana Villas	East	8.12	8.61	9.09	9.20	9.30	9.39	0.00	0.00	10.49	10.60	10.64
01-14-104	University East	East	30.90	31.38	31.81	32.20	32.54	32.86	0.00	0.00	0.00	37.11	37.23
36-15-362	Valley of the Sun Estates	East	2.81	3.16	3.16	3.16	3.16	3.16	4.74	4.74	4.74	4.74	4.74
35-14-385	Verde Estates	East	124.19	129.59	134.99	134.99	134.99	134.99	202.49	202.49	202.49	202.49	202.49
08-14-236	Verde Village	East	1.82	1.93	1.93	1.93	1.93	1.93	0.00	0.00	0.00	3.32	3.34
25-15-096	Vinwood Estates	East	124.66	128.96	128.96	128.96	128.96	128.96	0.00	193.44	193.44	193.44	193.44
01-15-056	Vista Del Corazon	East	30.43	32.52	33.90	34.55	34.92	35.27	0.00	0.00	39.41	39.83	39.95
01-15-142	Vista Grande	East	17.51	17.78	18.03	18.25	18.44	18.62	0.00	0.00	0.00	21.03	21.10
01-15-163	Vista Point at Gold Canyon Ranch	East	12.94	13.14	13.32	13.48	13.62	13.76	0.00	0.00	0.00	15.54	15.59
01-15-109	Wilderness at Superstition Foothills	East	6.59	7.15	7.48	7.57	7.65	7.73	0.00	0.00	0.00	0.00	8.76
01-15-146	Wildflower Village at Superstition Foothills	East	1.82	2.08	2.10	2.13	2.15	2.17	0.00	0.00	0.00	0.00	0.00
02-14-094	Will Rogers Equestrian Ranch, Units 1,2,3	East	32.30	33.98	34.83	35.11	35.11	35.11	0.00	52.66	52.66	52.66	52.66
Subtotal East Phoenix AMA			7,483	8,338	8,899	9,248	9,420	9,596	9,294	11,236	11,890	12,743	13,131
Grand Total			18,237	20,056	19,070	20,201	21,069	21,867	17,364	28,498	32,481	35,228	35,981

* Includes Member Lands enrolled as of January 2003

**TABLE D-3
PROJECTED EXCESS GROUNDWATER USE BY EXISTING CAGRD MEMBER LANDS*
PINAL AMA
(UNITS: Acre-feet)**

CAGRD ID No.	Subdivision	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
01-25-265	Acacia Landing	44.89	64.28	81.79	87.42	91.18	98.05	106.19	106.19	106.19	106.19	106.19
01-25-411	Arroyo Grande	0.00	18.02	47.15	73.84	82.09	87.43	109.76	109.76	109.76	109.76	109.76
01-25-404	Bel Aire Estates	5.43	6.41	7.39	7.39	7.39	7.39	7.39	7.39	7.39	7.39	7.39
01-25-328	Black Mountain Estates	6.07	7.73	8.98	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39
01-25-348	Carter Ranch	29.58	33.74	36.34	36.86	36.86	36.86	36.86	36.86	36.86	36.86	36.86
01-25-022	Casa De Ensueno	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
01-25-197	Casa Grande Medical Campus	52.03	58.90	58.90	58.90	58.90	58.90	58.90	58.90	58.90	58.90	58.90
01-25-144	Casa Mirage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-25-361	Chaparral Estates	0.00	9.97	19.23	27.47	30.55	32.10	39.30	39.30	39.30	39.30	39.30
01-25-221	Coolidge Country Village Estates	20.99	24.42	26.38	26.87	26.87	26.87	26.87	26.87	26.87	26.87	26.87
01-25-271	Cornerstone	8.15	8.84	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53
01-25-432	Cota Ranch	11.94	13.53	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58
01-25-314	Cottonwood Ranch	33.85	108.22	145.13	182.03	203.84	233.48	257.52	257.52	257.52	257.52	257.52
01-25-326	Cottonwood Village	2.27	2.27	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77
01-25-428	Desert Crossing	0.00	15.80	27.59	38.85	42.07	44.22	53.33	53.33	53.33	53.33	53.33
01-25-375	Desert Sky Ranch Unit II and IV	28.65	43.08	55.70	59.91	62.31	67.12	73.14	73.14	73.14	73.14	73.14
01-25-091	Desert Sky Ranch, Unit III, Phases I & II	20.66	23.46	25.14	25.70	25.70	25.70	25.70	25.70	25.70	25.70	25.70
01-25-064	Desert Views, Unit 1	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38
01-25-261	Desert Views, Unit 2	6.24	6.85	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46
01-25-132	Echeverria Estates	1.73	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21
01-25-284	Gadsden Greens	0.00	26.53	45.52	62.88	68.31	71.56	86.21	86.21	86.21	86.21	86.21
01-25-353	Garrett Estates	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
01-25-407	Hacienda Palo Verde	4.70	5.26	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82
01-25-388	Highland Manor	8.23	38.11	55.54	70.48	75.46	78.57	91.65	91.65	91.65	91.65	91.65
01-25-285	Ironwood Commons	41.95	77.77	98.24	117.00	122.12	126.38	141.73	141.73	141.73	141.73	141.73
01-25-310	Ironwood Village	27.73	41.38	54.43	58.59	60.96	65.71	71.64	71.64	71.64	71.64	71.64
01-25-380	Jardines de Esperanzas	5.16	5.16	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85
01-25-356	Kenilworth Gardens	1.33	76.94	114.99	152.06	173.81	204.45	228.66	228.66	228.66	228.66	228.66
01-25-291	Lancaster Estates	0.49	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
01-25-427	Mandalay Ranch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-25-272	Manor Vista	0.81	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
01-25-360	McCartney Center	86.85	171.55	213.59	254.98	279.82	313.57	340.96	340.96	340.96	340.96	340.96

TABLE D-3
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PINAL AMA
(UNITS: Acre-feet)

CAGRD ID No.	Subdivision	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
55-25-448	McCartney Estates	97.20	101.15	105.11	105.11	105.11	105.11	105.11	105.11	105.11	105.11	105.11
01-25-273	McCartney Ranch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-25-259	Mesquite Tree Ranch	23.02	26.64	28.71	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.22
01-25-402	Mission Royale Parcels A, C, D, H, I & Golf Course	33.53	84.86	138.29	168.67	195.90	205.33	233.62	233.62	233.62	233.62	233.62
01-25-355	Mountain View Ranch, Parcels B-H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-25-226	NorthView Estates	11.39	16.13	19.30	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82
01-25-311	Park Homes	40.27	42.33	43.01	43.01	43.01	43.01	43.01	43.01	43.01	43.01	43.01
01-25-145	Pebble Trail	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50
01-25-270	Pebble Trail Units 3, 4 & 5	0.00	0.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
01-25-103	Quail Run at Coyote Ranch	4.39	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84
01-25-235	Rancho Palo Verde Estates	20.76	23.57	25.25	25.81	25.81	25.81	25.81	25.81	25.81	25.81	25.81
01-25-111	Ridge at Black Butte	0.00	1.82	2.86	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21
01-25-359	Safeway, Store #1706	70.14	82.21	82.21	82.21	82.21	82.21	82.21	82.21	82.21	82.21	82.21
01-25-131	Saguaro Estates	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
01-25-165	Santa Rosa	1.29	9.55	17.34	19.64	21.01	23.76	27.43	27.43	27.43	27.43	27.43
01-25-286	Silverhawk	49.20	49.84	49.84	49.84	49.84	49.84	49.84	49.84	49.84	49.84	49.84
01-25-266	Smoke Tree 1C	5.95	6.49	6.49	6.49	6.49	6.49	6.49	6.49	6.49	6.49	6.49
01-25-288	Sonoran Heights	0.00	62.34	95.22	127.59	146.30	172.60	193.85	193.85	193.85	193.85	193.85
43-25-318	Sun Lakes - Casa Grande	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-25-274	Sunland Ranches	16.54	18.62	20.18	20.18	20.18	20.18	20.18	20.18	20.18	20.18	20.18
01-25-497	Sunrise at Wildhorse	87.05	97.25	104.53	108.90	108.90	108.90	108.90	108.90	108.90	108.90	108.90
01-25-471	Sunset View Units 1 & 2	5.75	6.71	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67
01-25-237	Tierra Rica Estates	0.00	9.53	23.30	35.11	39.05	41.51	51.84	51.84	51.84	51.84	51.84
01-25-327	Trekell Estates	5.90	6.91	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42
01-25-082	Val Vista Estates	6.38	8.80	10.02	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42
01-25-346	Valley Vista Estates	90.16	96.10	99.67	100.85	100.85	100.85	100.85	100.85	100.85	100.85	100.85
01-25-315	Weaver Ranch	11.97	13.54	14.32	14.32	14.32	14.32	14.32	14.32	14.32	14.32	14.32
01-25-419	Wildwood	25.97	29.18	31.11	31.11	31.11	31.11	31.11	31.11	31.11	31.11	31.11
Total		1,069	1,704	2,123	2,436	2,594	2,765	3,006	3,006	3,006	3,006	3,006

* Includes Member Lands enrolled as of January 2003

TABLE D-4
PROJECTED EXCESS GROUNDWATER USE BY EXISTING CAGR D MEMBER LANDS*
TUCSON AMA
(UNITS: Acre-feet)

CAGR D ID No.	Subdivision	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
56-36-453	Black Horse	31.51	44.15	53.77	63.61	70.19	76.06	0.00	153.35	153.35	153.35	153.35
13-36-312	Canoa Northwest Lots 167-329, Common Areas A,B, & C	14.49	16.56	18.52	20.07	21.50	22.93	0.00	0.00	43.00	43.00	43.00
13-36-256	Canoa Northwest, Lots 1-166	15.01	16.86	18.40	19.81	21.23	22.64	0.00	0.00	42.45	42.45	42.45
13-36-503	Canoa Ranch Block 21, Lots 1-60 and Common Areas	13.02	13.73	14.20	14.20	14.20	14.20	14.20	14.20	14.20	14.20	14.20
32-36-128	Colonias La Canada, Lots 83-219	13.10	14.72	16.06	17.30	18.54	19.77	0.00	0.00	37.07	37.07	37.07
01-35-087	Coronado Ridge	15.95	16.82	17.40	17.40	17.40	17.40	0.00	0.00	0.00	17.40	17.40
37-36-248	Coyote Creek	30.77	43.14	52.49	62.20	68.54	74.53	0.00	0.00	149.99	149.99	149.99
27-36-126	Desert Vista Estates	17.42	19.63	21.40	23.05	24.70	26.34	0.00	0.00	49.39	49.39	49.39
27-36-456	Desert Vista Terrace	24.27	27.89	31.07	33.64	36.05	38.45	0.00	72.10	72.10	72.10	72.10
27-36-470	Drexel Manor	58.33	61.04	62.85	63.30	63.30	63.30	63.30	63.30	63.30	63.30	63.30
07-36-086	Duval Commerce Park	14.85	16.20	17.55	18.90	20.25	21.60	0.00	0.00	40.50	40.50	40.50
47-35-354	Eagle Crest Ranch	123.01	160.12	187.62	217.05	242.08	271.87	0.00	531.00	531.00	531.00	531.00
46-36-431	Eagle Point Estates	17.83	24.92	30.45	36.05	39.74	43.07	0.00	86.79	86.79	86.79	86.79
09-36-005	Garden of Eden, Lots 1-18	4.81	5.25	6.02	6.48	6.95	7.41	0.00	13.89	13.89	13.89	13.89
05-36-063	Greens at Santa Rita Springs, 168-214	6.18	6.74	7.31	7.87	8.43	8.99	16.86	16.86	16.86	16.86	16.86
05-36-122	Greens at Santa Rita Springs, 226-234	0.93	1.02	1.10	1.19	1.27	1.36	0.00	2.54	2.54	2.54	2.54
07-36-099	La Joya Verde II	10.28	11.80	13.16	14.31	15.33	16.35	0.00	0.00	30.66	30.66	30.66
05-36-341	La Posada II	21.36	26.23	31.22	34.67	37.71	41.57	0.00	81.05	81.05	81.05	81.05
07-36-382	Las Campanas Block F, Lots 1-93 & CA A&B	9.05	10.45	11.70	12.60	13.50	14.40	0.00	27.00	27.00	27.00	27.00
07-36-268	Las Campanas Block H, Lots 1-84	7.74	8.75	9.48	10.21	10.94	11.67	0.00	0.00	21.88	21.88	21.88
07-36-349	Las Campanas Village, Block M and the west half of	12.07	16.80	20.52	24.35	26.76	29.11	0.00	58.60	58.60	58.60	58.60
07-36-024	Las Campanas, Block G	7.91	8.63	9.35	10.07	10.79	11.50	0.00	0.00	21.57	21.57	21.57
07-36-118	Las Campanas, Block G-2	11.42	12.77	13.95	15.03	16.10	17.17	0.00	0.00	32.20	32.20	32.20
07-36-013	Las Campanas, Block K	8.78	9.66	10.47	11.27	12.08	12.89	0.00	0.00	24.16	24.16	24.16
05-36-080	Links at Santa Rita Springs	8.06	8.80	9.53	10.26	11.00	11.73	0.00	21.99	21.99	21.99	21.99
07-36-468	Los Arroyos Del Este	99.91	127.89	144.19	158.36	162.97	165.80	178.20	178.20	178.20	178.20	178.20
05-36-023	Madera Foothills Estates, Lots 1-25	3.94	4.49	5.06	5.45	5.84	6.23	0.00	11.68	11.68	11.68	11.68
05-36-384	Madera Foothills Estates, Lots 26-67 & CA A&B	4.23	4.73	5.12	5.52	5.91	6.30	0.00	11.82	11.82	11.82	11.82
05-36-028	Madera Reserve, Lots 131-263 & Exp.	15.07	17.22	19.27	20.88	22.37	23.86	0.00	0.00	44.75	44.75	44.75
39-36-282	Mountain Creek Ranch	26.02	29.83	33.36	35.93	38.50	41.06	0.00	0.00	76.99	76.99	76.99
05-36-258	Parcel E at Santa Rita Springs	3.51	3.94	4.27	4.60	4.92	5.25	0.00	0.00	0.00	9.85	9.85
05-36-350	Pasadera	2.79	3.15	3.54	3.81	4.08	4.35	0.00	8.16	8.16	8.16	8.16

TABLE D-4
PROJECTED EXCESS GROUNDWATER USE BY EXISTING CAGRD MEMBER LANDS*
TUCSON AMA
(UNITS: Acre-feet)

CAGRD ID No.	Subdivision	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
07-36-252	Paseo Tierra Townhomes	1.52	1.87	2.02	2.18	2.34	2.49	0.00	0.00	4.67	4.67	4.67
05-36-143	Presidio at Santa Rita Springs	18.68	22.96	27.32	30.34	33.07	36.32	0.00	0.00	70.92	70.92	70.92
54-36-447	Quail Creek Phase II	92.80	119.10	169.50	227.38	291.33	346.85	0.00	1017.80	1017.80	1017.80	1017.80
37-36-394	Rincon Trails	66.58	93.16	113.43	134.43	148.21	160.82	0.00	324.00	324.00	324.00	324.00
31-36-127	Roger Square Townhomes	0.65	0.71	0.77	0.83	0.89	0.95	0.00	0.00	1.77	1.77	1.77
01-35-294	SaddleBrooke Ranch	497.33	585.33	769.33	957.67	1145.33	1277.67	1945.33	2000.00	2000.00	2000.00	2000.00
09-35-383	SaddleBrooke Unit 21	20.40	28.75	34.96	41.33	45.68	49.46	0.00	99.70	99.70	99.70	99.70
51-35-393	SaddleBrooke Units 42-45	129.93	181.76	221.45	262.67	289.27	314.34	0.00	632.77	632.77	632.77	632.77
09-35-410	SaddleBrooke Units 46-50	142.90	170.83	184.65	198.17	206.41	217.58	226.40	226.40	226.40	226.40	226.40
31-36-330	Sagewood	6.86	7.75	8.40	9.04	9.69	10.34	0.00	0.00	19.38	19.38	19.38
13-36-083	San Ignacio Heights Resub	0.83	0.91	0.98	1.06	1.14	1.21	0.00	0.00	2.27	2.27	2.27
13-36-044	San Ignacio Villas	4.18	4.56	4.94	5.32	5.70	6.08	11.40	11.40	11.40	11.40	11.40
13-36-085	San Ignacio Vistas II, Lots 1-70, 117-118	5.81	6.34	6.87	7.40	7.93	8.45	0.00	0.00	15.85	15.85	15.85
13-36-049	San Ignacio Vistas II, Lots 71-92, 119-128	2.60	2.83	3.07	3.31	3.54	3.78	0.00	7.08	7.08	7.08	7.08
13-36-117	San Ignacio Vistas II, Phase 2, 129-258	10.09	11.36	12.40	13.36	14.31	15.26	0.00	0.00	0.00	28.62	28.62
07-36-343	Santo Tomas Villas	27.30	38.20	46.60	55.27	60.91	66.17	0.00	133.10	133.10	133.10	133.10
27-36-078	Silver Moon Estates (Coronet Park 1)	5.46	6.28	6.98	7.51	8.05	8.59	0.00	0.00	16.10	16.10	16.10
37-36-505	Spanish Trail Estates	55.76	58.77	60.28	60.78	60.78	60.78	60.78	60.78	60.78	60.78	60.78
05-36-113	Springs II at Santa Rita	11.35	12.72	13.90	14.97	16.04	17.11	0.00	0.00	32.08	32.08	32.08
21-36-046	Tucson Avra West, Lots 1-168	17.31	19.47	21.22	22.85	24.48	26.11	0.00	0.00	48.96	48.96	48.96
46-36-344	Tucson Mountain Ranch	5.87	6.40	6.93	7.47	8.00	8.53	0.00	16.00	16.00	16.00	16.00
46-36-377	Tucson Mountain Ranch - Lots 51-182	14.32	16.39	18.32	19.88	21.30	22.72	0.00	42.60	42.60	42.60	42.60
09-36-107	Twin Lakes Subdivision, Lots 232-254	2.68	2.92	3.17	3.41	3.65	3.90	0.00	0.00	7.30	7.30	7.30
19-36-040	Voyager Homes, Phase B	3.31	3.61	3.92	4.22	4.52	4.82	0.00	0.00	9.04	9.04	9.04
19-36-123	Voyager Homes, Phase C, Lots 158-235	3.52	3.84	4.16	4.47	4.79	5.11	0.00	0.00	0.00	0.00	9.59
19-36-396	Voyager Homes, Phase D, Lots 232-289 and CA A&B	2.39	2.75	3.09	3.33	3.57	3.80	0.00	7.13	7.13	7.13	7.13
37-36-467	Whisper Ranch	6.87	7.85	8.89	9.58	10.26	10.94	0.00	20.52	20.52	20.52	20.52
Total		1,811	2,211	2,658	3,108	3,504	3,839	2,516	5,952	6,795	6,851	6,860

* Includes Member Lands enrolled as of January 2003

TABLE D-5
PROJECTED EXCESS GROUNDWATER DELIVERIES TO MEMBER LANDS - BY WATER PROVIDER
ENROLLMENT THROUGH 2015
PHOENIX AMA
(UNITS: Acre-feet)

GIS ID	Water Provider Name	Division	Type	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
1	Adaman Mutual Water Company		ML	95	96	100	101	102	103	156	162	162	162	162
4	Allenville Water Company		Future ML	4	6	8	10	12	14	38	69	70	71	71
22	Arizona Water Company	White Tanks	ML	1,472	1,651	-	21	203	375	393	622	2,384	2,677	2,737
161	Arizona-American Water Company	Sun City West	Future ML	41	59	78	98	118	138	244	418	418	419	421
43	Arizona-American Water Company	Agua Fria	ML	1,394	1,528	1,056	1,507	1,944	2,463	4,009	6,543	12,710	16,210	16,823
160	Arizona-American Water Company	Sun City	ML	284	324	362	402	442	481	247	829	1,219	1,350	1,352
26	Beardsley Water Company		ML	425	463	495	517	539	561	1,145	1,798	1,987	2,067	2,115
42	Chaparral Water Company		Future ML	30	43	57	71	86	100	151	151	165	166	179
31	Circle City Water Company		Future ML	21	30	40	50	60	70	116	119	120	121	121
50	Clearwater Utilities Company, Inc.		ML	150	160	170	175	180	185	255	357	362	368	374
75	Grandview Water Company		Future ML	-	-	-	-	-	-	-	-	-	-	-
81	Hassayampa Water Co-op		Future ML	-	-	-	-	-	-	-	-	-	-	-
93	Lake Pleasant Water Company		Future ML	-	-	-	-	-	-	0	0	18	26	26
98	Litchfield Park Service Company		ML	2,987	3,317	3,654	3,989	4,317	4,644	4,252	10,166	11,042	11,133	11,383
110	Mobile Water Company		Future ML	-	-	-	-	-	-	26	34	42	68	138
117	New River Utility Company		ML	1,122	1,189	1,259	1,333	1,407	1,481	811	2,219	2,219	2,219	2,219
135	Rigby Water Company		Future ML	8	12	15	19	23	27	116	215	230	233	233
143	Rose Valley Water Company		ML	970	976	983	990	997	1,005	83	1,510	1,511	1,511	1,511
156	South Rainbow Valley Water Co-op		Future ML	-	-	-	-	-	-	4	7	7	7	7
165	Sunrise Water Company		ML	175	197	219	244	268	292	347	682	707	721	728
169	Tierra Buena Water Company		ML	46	47	48	50	51	52	12	90	90	90	90
203	Town of Buckeye		ML	978	1,258	1,538	1,830	2,116	2,402	6,571	9,221	13,116	14,121	15,231
186	Valencia Water Company		ML	617	845	1,016	1,136	1,224	1,312	2,135	2,256	2,938	3,117	3,190
188	Valley Utility Water Company, Inc.		ML	284	318	353	389	425	461	715	935	935	935	935
189	Valley View Water Company		Future ML	-	-	-	-	-	-	1	1	3	3	3
192	Water Utility of Greater Buckeye, Inc.		ML	72	87	103	120	137	153	538	919	920	928	950
193	Water Utility of Greater Tonopah, Inc.		ML	27	30	34	35	37	39	8	67	77	79	221
195	West End Water Company		Future ML	5	6	8	10	11	13	322	626	686	717	732
196	West Phoenix Water Company		Future ML	1	1	1	2	2	2	2	3	3	3	6
198	Wilhoit Water Company		Future ML	18	26	34	43	52	60	100	167	167	168	168

TABLE D-5
PROJECTED EXCESS GROUNDWATER DELIVERIES TO MEMBER LANDS - BY WATER PROVIDER
ENROLLMENT THROUGH 2015
PHOENIX AMA
(UNITS: Acre-feet)

GIS ID	Water Provider Name	Division	Type	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
--	Outside of Known Providers - West Phx AMA		Future ML	92	132	174	218	263	307	912	1,103	1,197	1,225	1,246
Subtotal - West Phoenix AMA				11,315	12,799	11,806	13,358	15,015	16,741	23,707	41,289	55,504	60,914	63,373
14	Arizona Water Company	Apache Junction	ML	1,738	1,932	2,116	2,300	2,475	2,650	1,999	3,986	4,795	5,624	6,028
21	Arizona Water Company	Superior	ML	91	121	152	185	217	249	768	1,411	1,636	1,684	1,689
118	Arizona-American Water Company	Paradise Valley	ML	64	69	73	76	85	95	71	110	145	145	145
27	Berneil Water Company		Future ML	4	7	9	11	13	16	25	25	25	25	25
36	Carefree Valley Water Company		Future ML	-	-	-	-	-	-	1	1	1	1	1
40	Cave Creek Water Company		Future ML	25	35	47	59	71	82	111	177	226	246	246
268	Chandler Heights Citrus Irrigation District		ML	12	16	20	24	28	32	129	247	247	247	247
220	City of Tolleson		ML	-	-	-	-	-	-	-	-	-	-	-
59	Desert Hills Water Company		ML	118	152	187	224	261	299	469	515	517	529	531
63	Diversified Water Utilities, Inc.		ML	206	291	380	474	568	661	1,378	2,451	2,483	2,491	2,491
77	H2O, Inc.		ML	1,361	1,732	2,106	2,488	2,870	3,252	5,787	9,810	9,934	9,996	9,997
122	Pima Utility Company		ML	484	519	548	563	577	591	707	853	855	857	857
127	Queen Creek Water Company		ML	3,659	4,178	4,522	4,791	5,036	5,271	10,464	14,725	15,299	15,730	15,737
141	Rio Verde Utilities, Inc.		ML	53	55	57	59	61	63	19	36	72	116	139
162	Sun Valley Farms Unit VI Water Company		Future ML	5	7	9	11	13	15	35	61	61	61	61
163	Sunburst Farms Mutual Water & Ag Company		Future ML	-	-	-	-	-	-	-	-	-	-	-
172	Tonto Hills Utility Company		Future ML	1	1	2	2	2	2	4	4	4	4	4
272	Town of Carefree		Future ML	36	52	68	85	102	119	196	328	328	329	330
269	Tres Rios Homeowners Association, Inc.		ML	35	37	38	39	40	41	74	89	90	90	90
194	Water Utility of Northern Scottsdale, Inc.		ML	181	189	196	197	197	197	255	313	313	313	314
--	Outside of Known Providers - East Phx AMA			1,032	1,483	1,960	2,462	2,963	3,465	10,281	18,559	20,140	20,608	20,965
Subtotal - East Phoenix AMA				9,106	10,877	12,489	14,049	15,580	17,102	32,771	53,700	57,172	59,097	59,898
Grand Total - Phoenix AMA				20,420	23,676	24,295	27,408	30,595	33,843	56,479	94,990	112,675	120,011	123,270

TABLE D-6
PROJECTED EXCESS GROUNDWATER DELIVERIES TO MEMBER LANDS - BY WATER PROVIDER
ENROLLMENT THROUGH 2015
PINAL AMA
(UNITS: Acre-feet)

GIS ID	Water Provider Name	Division	Type	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
245	Arizona Water Company	Arizona City	ML	21	24	26	26	26	26	28	29	29	29	30
15	Arizona Water Company	Casa Grande	ML	652	1,171	1,525	1,794	1,931	2,071	2,503	2,631	2,784	2,822	2,928
16	Arizona Water Company	Coolidge	ML	287	391	447	491	513	543	577	581	588	591	593
20	Arizona Water Company	Stanfield	Future ML	12	25	38	53	66	80	98	104	116	118	121
248	Arizona Water Company	Tierra Grande	ML	11	16	19	20	20	21	21	21	21	21	21
38	Carter Water Company		Future ML	-	-	-	-	-	-	0	0	0	0	0
39	Casa Grande West Water Company		Future ML	-	-	-	-	-	-	1	1	1	1	1
73	Golden Corridor Water Company		Future ML	2	5	7	10	12	15	29	34	35	36	36
78	Hacienda Acres Water System		Future ML	-	-	-	-	-	-	0	0	0	0	0
119	Park Water Company		Future ML	-	-	-	-	-	-	-	-	-	-	-
120	Picacho Water Company		ML	-	2	3	3	3	3	3	3	7	9	10
121	Picacho Water Improvement Corporation		Future ML	-	-	-	-	-	-	-	-	-	-	-
123	Pinal Water Company		Future ML	0	1	1	2	2	3	6	8	8	9	9
148	Santa Cruz Water Company		Future ML	7	14	22	30	38	46	69	77	86	88	89
152	Signal Peak Water Company		ML	97	101	105	105	105	105	106	106	106	106	106
266	Silverbell IDD		Future ML	-	-	-	-	-	-	-	-	-	-	-
155	South Mountain Water Company		Future ML	-	-	-	-	-	-	1	1	1	1	1
159	Spring Branch Water Company		Future ML	-	-	-	-	-	-	0	0	0	0	0
164	Sunland Water Company		Future ML	-	-	-	-	-	-	-	-	-	-	-
267	Thunderbird Farms Improvement District		Future ML	1	2	3	4	6	7	7	7	7	7	8
182	United Utilities Cactus Forest		Future ML	-	-	-	-	-	-	-	-	-	-	-
--	Outside of Known Providers - Pinal AMA			64	128	196	269	338	411	1,233	1,506	1,650	1,704	1,750
Total - Pinal AMA				1,156	1,880	2,392	2,806	3,059	3,331	4,682	5,108	5,440	5,543	5,704

TABLE D-7
PROJECTED EXCESS GROUNDWATER DELIVERIES TO MEMBER LANDS - BY WATER PROVIDER
ENROLLMENT THROUGH 2015
TUCSON AMA
(UNITS: Acre-feet)

GIS ID	Water Provider Name	Division	Type	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
7	Anway Manville L.L.C.		ML	17	19	21	23	24	26	-	-	49	49	49
9	Arivaca Townsite Co-op Water Company		Future ML	-	-	-	-	-	-	-	-	-	-	-
18	Arizona Water Company	Oracle	ML	513	602	787	975	1,163	1,295	1,945	2,000	2,004	2,024	2,026
24	Avra Water Corporation		Future ML	6	9	11	14	17	20	37	43	68	70	72
52	Community Water Company of G.V.		ML	211	263	299	333	358	382	252	495	696	747	754
61	Despoblado Water Company		Future ML	-	-	-	-	-	-	-	-	-	-	-
62	Diablo Village Water Company		ML	38	48	56	63	72	81	29	182	207	210	212
64	Dome Well Corporation		Future ML	-	-	-	-	-	-	0	0	0	0	0
66	E & T Water Company		Future ML	0	1	1	1	1	1	2	2	3	3	3
69	Farmers Water Company		ML	110	149	190	236	283	329	375	575	978	1,012	1,030
247	Flowing Wells Irrigation District		ML	11	13	16	19	21	24	27	32	72	74	76
74	Goodman Water Company		ML	123	160	188	217	242	272	36	584	592	627	632
76	Green Valley Water Company		ML	68	80	92	105	118	132	110	132	297	331	336
79	Halcyon Acres Water Company		Future ML	0	1	1	1	1	1	2	3	5	5	5
261	Homeowners Coop		Future ML	1	1	1	1	1	2	3	4	7	7	7
84	Isadore Water		Future ML	-	-	-	-	-	-	0	0	0	0	0
86	James Esposito		Future ML	-	-	-	-	-	-	0	0	1	1	1
90	La Casita Water Company		Future ML	-	-	-	-	-	-	0	1	1	1	1
91	Lago Del Oro Water Company, Inc.		ML	171	208	239	272	303	336	413	570	725	742	756
96	Las Quintas Serenas Water Company		ML	15	18	22	27	31	35	35	41	102	105	107
97	Lazy C Water Service		Future ML	-	-	-	-	-	-	1	2	2	3	3
99	Loeffler Lane Homeowners Assoc		Future ML	-	-	-	-	-	-	0	0	0	0	0
100	Los Cerros Water Company, Inc.		ML	32	44	54	64	70	77	6	163	165	172	173
256	Lyn Lee		Future ML	-	-	-	-	-	-	1	1	2	2	2
106	Mesaland Water Company		Future ML	1	1	1	1	1	2	3	3	5	5	5
109	Mirabell Water Company		Future ML	-	-	-	-	-	-	0	0	0	0	0
114	Mountain Pass Utility Company		Future ML	5	7	9	12	14	16	29	32	51	53	54
115	Mt. Lemmon Cooperative Water Company		Future ML	-	-	-	-	-	-	-	-	-	-	-
264	Orchid Valley MWP		Future ML	-	-	-	-	-	-	0	0	1	1	1
126	Quail Creek Water Company		ML	107	143	194	252	316	375	50	1,103	1,123	1,190	1,201
130	Rancho Del Conejo Water Community Co-op		Future ML	-	-	-	-	-	-	1	1	1	1	1
132	Ray Water Company		ML	105	115	123	132	140	149	102	183	278	281	284
133	Red Rock Water Corporation		Future ML	-	-	-	-	-	-	-	-	-	-	-

TABLE D-7
PROJECTED EXCESS GROUNDWATER DELIVERIES TO MEMBER LANDS - BY WATER PROVIDER
ENROLLMENT THROUGH 2015
TUCSON AMA
(UNITS: Acre-feet)

GIS ID	Water Provider Name	Division	Type	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
134	Ridgeview Utility Company		ML	130	182	221	263	289	314	-	634	635	636	638
136	Rillito Water Users		Future ML	1	1	2	2	2	3	5	6	9	10	10
137	Rincon Creek Water Company		Future ML	1	1	2	2	2	3	6	7	12	12	13
138	Rincon Ranch Water Company		Future ML	-	-	-	-	-	-	1	1	1	2	2
139	Rincon Water Company		ML	26	30	33	36	39	41	2	3	81	81	82
145	Saguaro Water Company		ML	160	203	235	267	290	315	110	475	636	683	689
146	Sahuarita Village Water Company		Future ML	2	2	3	4	5	5	10	11	18	18	19
147	Sandario Water Company		Future ML	-	-	-	-	-	-	0	1	1	1	1
149	Sasabe Water Company		Future ML	-	-	-	-	-	-	-	-	-	-	-
166	Thim Utility Company		Future ML	-	-	-	-	-	-	1	1	1	2	2
167	Thim Water Corporation		Future ML	-	-	-	-	-	-	-	-	-	-	-
168	Thunderhead Water Company		Future ML	1	1	1	1	2	2	4	4	7	7	7
180	Twin Hawks Utility, Inc.		Future ML	-	-	-	-	-	-	-	-	-	-	-
190	Viva Development Corporation		Future ML	4	5	7	9	10	12	22	25	39	40	41
191	Voyager Water Company		ML	9	11	12	14	15	16	6	14	28	28	38
258	Winterhaven Water Company		Future ML	-	-	-	-	-	-	0	0	0	0	0
199	Worden Water Company		Future ML	-	-	-	-	-	-	-	-	-	-	-
--	Outside of Known Providers - Tucson AMA			167	240	317	398	480	561	1,664	2,013	2,184	2,235	2,274
Total - Tucson AMA				2,034	2,557	3,138	3,742	4,312	4,828	5,292	9,348	11,087	11,473	11,606

**TABLE D-8
PROJECTED EXCESS GROUNDWATER USE BY CAGR D MEMBER SERVICE AREAS
(CONTINUED EXPANSION THROUGH 2015)**

	Member Service Area	Cnty	AMA	Membership Date	Max DAWS Dependence on CAGR D (AF/Yr)	Max CAGR D Oblig. Per Agreement (AF/Yr)
1	Vail Water Company	Pima	Tucson	11/20/1995	3,846	Unlimited
2	Marana	Pima	Tucson	12/12/1995	3,700	Unlimited
3	Metropolitan Domestic Water Improvement District	Pima	Tucson	12/13/1995	11,000	Unlimited
4	Apache Junction WUCFD	Mar	Phoenix	2/15/1996	1,344	Unlimited
5	Tucson	Pima	Tucson	12/19/1996	12,500 *	12,500 *
6	Oro Valley	Pima	Tucson	3/18/1997	10,447	Unlimited
7	Peoria	Mar	Phoenix	9/16/1997	12,142	Unlimited
8	Spanish Trail Water Company	Pima	Tucson	12/14/1997	3,239	Unlimited
9	Avondale	Mar	Phoenix	1/16/1998	13,443	Unlimited
10	Surprise	Mar	Phoenix	7/21/1998	15,959	Unlimited
11	Florence	Pinal	Pinal	1/11/1999	472	Unlimited
12	Rancho Sahuarita Water Company	Pima	Tucson	7/26/1999	3,409	Unlimited
13	El Mirage	Mar	Phoenix	8/23/1999	6,877	Unlimited
14	Eloy	Pinal	Pinal	2/3/2000	634	Unlimited
15a	Johnson Utilities, LLC	Pinal	Phoenix	5/18/2000	2,640	5,967
15b	Johnson Utilities, LLC	Pinal	Pinal	5/18/2000		
16	City of Goodyear	Mar	Phoenix	10/4/2001	8,094	10,000
17	City of Scottsdale	Mar	Phoenix	11/21/2001	3460 **	3460 **
18	Copper Mountain Ranch WUCFD	Pinal	Pinal	6/20/2002	4,113	5,000
19	Santa Rosa Water Company	Pinal	Pinal	12/5/2002	TBD	6,100
Total Phoenix AMA - West						
Total Phoenix AMA - East						
Total Pinal AMA						
Total Tucson AMA						
Total All AMAs						

* For any volume exceeding 12,500 AF, CAGR D may require Tucson to provide water and replenishment facilities.

** Commitment under Water Availability Status Contract.

**TABLE D-8
PROJECTED EXCESS GROUNDWATER USE BY CAGR D MEMBER SERVICE AREAS
(CONTINUED EXPANSION THROUGH 2015)**

Member Service Area		Projected Excess Groundwater Use (AF)										
		2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2035
1	Vail Water Company	27	56	91	0	0	0	0	454	925	1,396	1,868
2	Marana	645	2,539	3,362	3,661	3,959	4,258	5,761	7,263	8,766	8,766	8,766
3	Metropolitan Domestic Water Improvement District	161	197	237	0	0	0	0	0	0	0	0
4	Apache Junction WUCFD	0	0	0	0	0	0	0	0	0	0	0
5	Tucson	5,000	5,000	0	0	0	0	0	0	0	0	0
6	Oro Valley	2,105	2,345	2,510	2,781	4,129	0	0	0	0	0	1,935
7	Peoria	0	0	0	0	0	0	0	0	0	0	976
8	Spanish Trail Water Company	0	0	0	0	0	0	0	0	0	0	830
9	Avondale	0	0	0	0	0	0	0	0	0	0	0
10	Surprise	3,573	4,074	4,575	2,201	0	0	0	0	12,101	15,959	15,959
11	Florence	0	0	0	0	0	0	0	0	0	0	0
12	Rancho Sahuarita Water Company	55	76	99	126	156	189	0	0	0	1,430	1,669
13	El Mirage	1,657	2,013	2,400	2,478	3,483	4,167	4,241	4,315	4,315	4,315	4,315
14	Eloy	0	0	0	0	0	109	1,221	2,332	3,560	3,560	3,560
15a	Johnson Utilities, LLC	4,571	5,370	6,168	6,967	7,766	8,564	14,714	20,858	23,031	23,031	23,031
15b	Johnson Utilities, LLC	480	567	655	742	830	918	2,246	3,572	4,090	4,090	4,090
16	City of Goodyear	0	0	217	0	0	0	0	2,523	15,755	15,755	15,755
17	City of Scottsdale	1,193	1,129	1,129	1,129	1,129	1,129	1,176	2,607	3,460	3,460	3,460
18	Copper Mountain Ranch WUCFD	0	0	0	0	0	0	0	0	0	0	0
19	Santa Rosa Water Company	0	0	0	0	0	0	0	0	0	0	0
Total Phoenix AMA - West		5,230	6,088	7,193	4,679	3,483	4,167	4,241	6,838	32,172	36,030	37,006
Total Phoenix AMA - East		5,764	6,499	7,297	8,096	8,895	9,693	15,890	23,464	26,491	26,491	26,491
Total Pinal AMA		480	567	655	742	830	1,027	3,467	5,904	7,650	7,650	7,650
Total Tucson AMA		7,993	10,212	6,300	6,567	8,244	4,447	5,761	7,717	9,691	11,593	15,068
Total All AMAs		19,467	23,366	21,445	20,085	21,452	19,334	29,359	43,924	76,005	81,763	86,214

* For any volume exceeding 12,500 AF, CAGR D may require Tucson to provide water and replenishment facilities.

** Commitment under Water Availability Status Contract.

**TABLE D-9
ESTIMATED REPLENISHMENT OBLIGATIONS
FOR CURRENT MEMBERS
(UNITS: Acre-Feet)**

Year	West Phoenix AMA			East Phoenix AMA			Pinal AMA			Tucson AMA			Total		
	Member Lands	Member Service Areas*	Subtotal	Member Lands	Member Service Areas*	Subtotal	Member Lands	Member Service Areas*	Subtotal	Member Lands	Member Service Areas*	Subtotal	Member Lands	Member Service Areas*	Total
2005	11,000	5,200	16,200	8,200	5,800	14,000	1,100	0	1,100	1,900	8,000	9,900	22,300	19,500	41,800
2006	12,100	6,100	18,200	9,300	6,500	15,800	1,800	0	1,800	2,300	10,200	12,500	25,600	23,400	48,900
2007	10,700	7,200	17,900	10,000	7,100	17,100	2,200	0	2,200	2,800	6,300	9,100	25,800	20,600	46,300
2008	11,600	4,700	16,300	10,500	7,100	17,600	2,500	0	2,500	3,300	6,600	9,900	27,900	18,300	46,300
2009	12,400	3,500	15,900	10,800	7,100	17,900	2,700	0	2,700	3,700	8,000	11,700	29,700	18,600	48,200
2010	13,200	4,200	17,400	11,200	7,100	18,300	2,900	100	3,000	4,100	3,900	8,000	31,400	15,300	46,600
2011	14,000	4,200	18,200	11,400	7,100	18,500	2,900	200	3,100	4,400	3,900	8,300	32,700	15,500	48,300
2012	14,700	4,200	18,900	11,700	7,100	18,800	3,000	300	3,300	4,700	4,000	8,700	34,000	15,800	49,900
2013	15,300	4,200	19,500	11,900	7,100	19,000	3,100	400	3,500	5,100	4,000	9,100	35,300	16,000	51,300
2014	15,900	4,200	20,100	12,200	7,100	19,300	3,100	500	3,600	5,400	4,100	9,500	36,600	16,000	52,700
2015	9,700	4,200	13,900	11,700	7,100	18,800	3,200	600	3,800	2,800	3,700	6,500	27,400	15,700	43,100
2016	13,300	4,300	17,600	12,000	7,500	19,500	3,200	600	3,800	2,800	3,700	6,500	31,400	16,000	47,400
2017	14,200	4,300	18,500	12,500	7,800	20,300	3,200	600	3,800	3,000	3,700	6,700	32,900	16,400	49,300
2018	15,800	4,300	20,100	13,500	8,100	21,600	3,200	600	3,800	5,200	3,700	8,900	37,700	16,700	54,400
2019	17,600	4,300	21,900	14,600	8,400	23,000	3,200	600	3,800	5,200	3,900	9,100	40,500	17,200	57,800
2020	19,300	6,800	26,100	14,800	8,600	23,400	3,200	600	3,800	6,200	4,200	10,400	43,600	20,200	63,800
2021	20,800	15,200	36,000	15,000	8,700	23,700	3,200	600	3,800	6,300	4,200	10,500	45,300	28,800	74,100
2022	21,800	19,500	41,300	15,100	8,900	24,000	3,200	600	3,800	6,500	4,300	10,800	46,600	33,400	80,100
2023	22,500	22,300	44,800	15,400	9,100	24,500	3,200	600	3,800	6,800	4,400	11,200	47,800	36,400	84,200
2024	22,900	24,300	47,200	15,500	9,300	24,800	3,200	600	3,800	7,000	4,500	11,500	48,600	38,800	87,400
2025	23,400	26,400	49,800	15,600	9,400	25,000	3,200	600	3,800	7,100	4,600	11,700	49,400	41,100	90,500
2026	24,800	28,100	52,900	15,800	9,400	25,200	3,200	600	3,800	7,200	4,700	11,900	51,000	42,800	93,800
2027	24,900	29,800	54,700	15,800	9,400	25,200	3,200	600	3,800	7,200	4,800	12,000	51,100	44,600	95,700
2028	25,100	30,300	55,400	15,900	9,400	25,300	3,200	600	3,800	7,200	5,400	12,600	51,400	45,700	97,100
2029	25,200	30,300	55,500	16,200	9,400	25,600	3,200	600	3,800	7,200	6,400	13,600	51,800	46,700	98,500
2030	25,500	30,300	55,800	16,300	9,400	25,700	3,200	600	3,800	7,200	6,500	13,700	52,200	46,800	99,000
2031	25,500	30,300	55,800	16,300	9,400	25,700	3,200	600	3,800	7,200	6,700	13,900	52,200	47,000	99,200
2032	25,700	30,300	56,000	16,500	9,400	25,900	3,200	600	3,800	7,200	6,900	14,100	52,600	47,200	99,800
2033	25,800	30,300	56,100	16,600	9,400	26,000	3,200	600	3,800	7,200	8,500	15,700	52,800	48,800	101,600
2034	25,900	30,300	56,200	16,600	9,400	26,000	3,200	600	3,800	7,200	8,900	16,100	52,900	49,200	102,100
2035 +	25,900	31,300	57,200	16,600	9,400	26,000	3,200	600	3,800	7,200	10,000	17,200	52,900	51,300	104,200

* Assumes no modifications of existing Designations of Assured Water Supply after 2003 resulting in increased CAGR obligations.

**TABLE D-10
ESTIMATED 100-YEAR REPLENISHMENT OBLIGATIONS
WITH CONTINUED ENROLLMENT THROUGH 2015
(UNITS: Acre-Feet)**

Year	West Phoenix AMA				East Phoenix AMA				Pinal AMA				Tucson AMA				Total All AMAs			
	Existing Member Lands	Future Member Lands	Member Service Areas*	Subtotal	Existing Member Lands	Future Member Lands	Member Service Areas*	Subtotal	Existing Member Lands	Future Member Lands	Member Service Areas*	Subtotal	Existing Member Lands	Future Member Lands	Member Service Areas*	Subtotal	Existing Member Lands	Future Member Lands	Member Service Areas*	Total
2005	11,000	300	5,200	16,600	8,200	800	5,800	14,800	1,100	0	500	1,600	1,900	100	8,000	10,000	22,300	1,300	19,500	43,100
2006	12,100	700	6,100	18,900	9,300	1,500	6,500	17,300	1,800	100	600	2,400	2,300	200	10,200	12,800	25,600	2,500	23,400	51,500
2007	10,700	1,100	7,200	19,000	10,000	2,400	7,300	19,700	2,200	200	700	3,000	2,800	300	6,300	9,400	25,800	4,100	21,400	51,300
2008	11,600	1,800	4,700	18,100	10,500	3,500	8,100	22,100	2,500	300	700	3,500	3,300	500	6,600	10,300	27,900	6,000	20,100	54,000
2009	12,400	2,600	3,500	18,500	10,800	4,700	8,900	24,400	2,700	400	800	3,900	3,700	600	8,200	12,600	29,700	8,300	21,500	59,400
2010	13,200	3,500	4,200	20,900	11,200	5,900	9,700	26,800	2,900	400	1,000	4,400	4,100	800	4,400	9,300	31,400	10,600	19,300	61,300
2011	14,000	5,600	4,200	23,800	11,400	8,900	10,900	31,300	2,900	700	1,500	5,100	4,400	1,100	4,800	10,300	32,700	16,300	21,400	70,500
2012	14,700	7,800	4,200	26,600	11,700	12,000	12,200	35,800	3,000	900	2,000	5,900	4,700	1,500	5,100	11,300	34,000	22,000	23,500	79,600
2013	15,300	9,900	4,200	29,400	11,900	15,000	13,400	40,300	3,100	1,100	2,500	6,600	5,100	1,800	5,500	12,300	35,300	27,800	25,600	88,600
2014	15,900	12,000	4,200	32,100	12,200	18,000	14,700	44,800	3,100	1,300	3,000	7,400	5,400	2,100	5,800	13,400	36,600	33,400	27,700	97,700
2015	9,700	14,100	4,200	28,000	11,700	21,000	15,900	48,600	3,200	1,500	3,500	8,100	2,800	2,500	5,800	11,100	27,400	39,100	29,400	95,800
2016	13,300	15,700	4,300	33,300	12,000	24,600	17,400	54,000	3,200	1,600	4,000	8,700	2,800	2,600	6,100	11,500	31,400	44,500	31,700	107,500
2017	14,200	17,200	4,300	35,700	12,500	28,100	19,000	59,500	3,200	1,700	4,400	9,300	3,000	2,700	6,400	12,100	32,900	49,700	34,100	116,700
2018	15,800	18,800	4,300	39,000	13,500	31,700	20,500	65,700	3,200	1,800	4,900	9,900	5,200	2,900	6,700	14,700	37,700	55,100	36,400	129,200
2019	17,600	20,400	4,300	42,300	14,600	35,200	22,100	71,900	3,200	1,800	5,400	10,400	5,200	3,000	7,200	15,400	40,500	60,500	38,900	140,000
2020	19,300	22,000	6,800	48,200	14,800	38,800	23,500	77,100	3,200	1,900	5,900	11,000	6,200	3,100	7,700	17,100	43,600	65,900	43,900	153,400
2021	20,800	24,000	15,200	59,900	15,000	39,200	24,100	78,300	3,200	2,000	6,300	11,400	6,300	3,300	8,100	17,700	45,300	68,500	53,600	167,300
2022	21,800	26,000	19,500	67,300	15,100	39,700	24,700	79,500	3,200	2,000	6,600	11,800	6,500	3,400	8,500	18,400	46,600	71,200	59,300	177,100
2023	22,500	27,900	23,700	74,200	15,400	40,200	25,300	80,900	3,200	2,100	7,000	12,300	6,800	3,600	8,900	19,200	47,800	73,800	64,900	186,600
2024	22,900	30,000	28,000	80,900	15,500	40,900	25,900	82,300	3,200	2,200	7,300	12,700	7,000	3,800	9,300	20,000	48,600	76,800	70,400	195,900
2025	23,400	32,100	32,200	87,700	15,600	41,500	26,500	83,600	3,200	2,200	7,600	13,100	7,100	3,900	9,700	20,800	49,400	79,800	76,000	205,200
2026	24,800	32,800	33,900	91,500	15,800	41,800	26,500	84,000	3,200	2,300	7,600	13,100	7,200	4,000	9,800	21,000	50,900	80,800	77,800	209,600
2027	24,900	33,500	35,600	94,000	15,800	42,000	26,500	84,300	3,200	2,300	7,600	13,100	7,200	4,100	9,900	21,100	51,100	81,800	79,600	212,600
2028	25,100	34,200	36,000	95,300	15,900	42,200	26,500	84,700	3,200	2,300	7,600	13,200	7,200	4,100	10,500	21,800	51,400	82,800	80,600	214,900
2029	25,200	34,800	36,000	96,100	16,200	42,500	26,500	85,100	3,200	2,300	7,600	13,200	7,200	4,200	11,500	22,900	51,800	83,800	81,600	217,300
2030	25,500	35,500	36,000	97,000	16,300	42,700	26,500	85,500	3,200	2,300	7,600	13,200	7,200	4,300	11,600	23,100	52,200	84,800	81,800	218,800
2031	25,500	35,900	36,000	97,500	16,300	42,800	26,500	85,700	3,200	2,400	7,600	13,200	7,200	4,300	11,700	23,200	52,300	85,400	81,900	219,600
2032	25,700	36,300	36,000	98,100	16,500	42,900	26,500	85,900	3,200	2,400	7,600	13,300	7,200	4,300	12,000	23,500	52,700	86,000	82,100	220,800
2033	25,800	36,700	36,000	98,600	16,600	43,000	26,500	86,100	3,200	2,400	7,600	13,300	7,200	4,300	13,600	25,200	52,800	86,500	83,800	223,100
2034	25,900	37,100	36,000	99,100	16,600	43,100	26,500	86,200	3,200	2,500	7,600	13,300	7,200	4,400	13,900	25,500	53,000	87,100	84,100	224,100
2035-2105	25,900	37,500	37,000	100,400	16,600	43,200	26,500	86,300	3,200	2,500	7,600	13,400	7,200	4,400	15,100	26,700	52,900	87,600	86,200	226,800

* Assumes modifications to DAWS by Marana, Eloy, Goodyear and Johnson Utilities (including Pinal AMA) through 2015 that result in increased CAGR obligations.

APPENDIX E

DATA TABLES REGARDING WATER SUPPLIES AND REPLENISHMENT RESERVE

- Table E-1 - Central Arizona Project – Long-Term Forecast – Normal Year Projection
- Table E-2 - Water Supply Inventory
- Table E-3 - Water Supplies for Replenishment Reserve

**TABLE E-1
CENTRAL ARIZONA PROJECT - LONG-TERM WATER FORECAST
NORMAL YEAR PROJECTION**

	1	2	3 = 1-2-75kaf	4	5	6 = 3-(4+5)	7
YEAR	ARIZONA COLORADO RIVER SUPPLY	ARIZONA ON- RIVER DEMANDS	CAP WATER DELIVERY	Indian On- Reservation Uses	Long-Term M&I Uses (including CAGR CAP Contracts)	EXCESS POOL SUPPLY	NIA Uses
2005	2,800,000	1,212,882	1,512,118	139,800	478,701	893,618	400,000
2006	2,800,000	1,225,763	1,499,237	122,300	494,211	882,725	400,000
2007	2,800,000	1,238,645	1,486,355	102,300	509,269	874,786	400,000
2008	2,800,000	1,251,527	1,473,473	106,800	549,368	817,306	400,000
2009	2,800,000	1,264,408	1,460,592	121,800	566,335	772,456	400,000
2010	2,800,000	1,277,290	1,447,710	142,328	602,496	702,886	400,000
2011	2,800,000	1,278,766	1,446,234	161,928	622,294	662,012	400,000
2012	2,800,000	1,280,242	1,444,758	179,393	638,765	626,600	400,000
2013	2,800,000	1,281,718	1,443,282	204,493	650,535	588,254	400,000
2014	2,800,000	1,283,194	1,441,806	226,593	661,633	553,580	400,000
2015	2,800,000	1,284,670	1,440,330	244,955	673,175	522,200	400,000
2016	2,800,000	1,286,146	1,438,854	263,617	679,929	495,308	400,000
2017	2,800,000	1,287,622	1,437,378	284,280	691,702	461,396	300,000
2018	2,800,000	1,289,098	1,435,902	305,604	695,251	435,047	300,000
2019	2,800,000	1,290,574	1,434,426	326,266	698,800	409,360	300,000
2020	2,800,000	1,292,050	1,432,950	346,928	734,349	351,673	300,000
2021	2,800,000	1,293,489	1,431,511	390,289	736,954	304,268	300,000
2022	2,800,000	1,294,928	1,430,072	390,953	737,879	301,240	300,000
2023	2,800,000	1,296,367	1,428,633	391,615	738,805	298,213	300,000
2024	2,800,000	1,297,806	1,427,194	392,277	739,730	295,187	225,000
2025	2,800,000	1,299,245	1,425,755	392,939	740,613	292,203	225,000
2026	2,800,000	1,300,684	1,424,316	393,602	741,503	289,211	225,000
2027	2,800,000	1,302,123	1,422,877	394,264	742,394	286,219	225,000
2028	2,800,000	1,303,562	1,421,438	394,926	743,284	283,228	225,000
2029	2,800,000	1,305,001	1,419,999	394,926	744,174	280,899	225,000
2030	2,800,000	1,306,440	1,418,560	394,926	745,064	278,570	225,000
2031	2,800,000	1,307,784	1,417,216	394,926	745,461	276,829	0
2032	2,800,000	1,309,128	1,415,872	394,926	745,527	275,419	0
2033	2,800,000	1,310,472	1,414,528	394,926	745,594	274,008	0
2034	2,800,000	1,311,816	1,413,184	394,926	745,660	272,598	0
2035	2,800,000	1,313,160	1,411,840	394,926	745,727	271,187	0
2036	2,800,000	1,314,504	1,410,496	394,926	754,345	261,225	0
2037	2,800,000	1,315,848	1,409,152	394,926	763,014	251,212	0
2038	2,800,000	1,317,192	1,407,808	394,926	771,734	241,148	0
2039	2,800,000	1,318,536	1,406,464	394,926	780,506	231,032	0
2040	2,800,000	1,319,880	1,405,120	394,926	789,329	220,865	0
2041	2,800,000	1,321,252	1,403,748	394,926	798,205	210,617	0
2042	2,800,000	1,322,624	1,402,376	394,926	807,134	200,316	0
2043	2,800,000	1,323,996	1,401,004	394,926	816,116	189,962	0
2044	2,800,000	1,325,368	1,399,632	394,926	825,153	179,553	0
2045	2,800,000	1,326,740	1,398,260	394,926	834,244	169,090	0
2046	2,800,000	1,328,112	1,396,888	394,926	843,390	158,572	0
2047	2,800,000	1,329,484	1,395,516	394,926	852,592	147,998	0
2048	2,800,000	1,330,856	1,394,144	394,926	861,851	137,367	0
2049	2,800,000	1,332,228	1,392,772	394,926	871,166	126,680	0
2050	2,800,000	1,333,600	1,391,400	464,726	919,737	6,937	0

**TABLE E-1
CENTRAL ARIZONA PROJECT - LONG-TERM WATER FORECAST
NORMAL YEAR PROJECTION**

	8 = 6-7-(3,460)	9	10 = 8-9	11	12	13 = (10-11)/2	14 =13-12
YEAR	REMAINING EXCESS POOL SUPPLY	CAGR ANNUAL OBLIGATION Uses	SECONDARY EXCESS POOL	Secondary Excess Uses	Repl. Reserve Pool	AWBA Pool (M&I Firming)	UNUSED REPLENISHMENT RESERVE POOL
2005	493,618	30,554	463,064	192,000	0	192,000	192,000
2006	481,650	22,068	459,583	48,000	19,185	205,791	186,607
2007	473,593	29,387	444,206	15,000	21,948	214,603	192,655
2008	416,177	4,897	411,280	15,000	25,130	198,140	173,010
2009	371,327	4,932	366,396	15,000	25,007	175,698	150,691
2010	301,757	7,659	294,098	15,000	25,975	139,549	113,574
2011	260,883	13,114	247,769	15,000	28,284	116,384	88,100
2012	225,471	0	225,471	15,000	23,952	105,236	81,284
2013	187,116	4,316	182,800	15,000	32,914	83,900	50,985
2014	152,432	13,499	138,934	15,000	36,369	61,967	25,598
2015	121,043	7,580	113,463	15,000	39,818	49,231	9,413
2016	94,141	16,762	77,379	15,000	31,189	31,189	0
2017	160,220	14,834	145,386	15,000	36,265	65,193	28,928
2018	133,585	0	133,585	15,000	37,132	59,293	22,160
2019	107,612	5,367	102,245	15,000	43,622	43,622	0
2020	49,639	17,704	31,934	15,000	8,467	8,467	0
2021	1,947	0	1,947	1,947	0	0	0
2022	0	0	0	0	0	0	0
2023	0	0	0	0	0	0	0
2024	67,239	0	67,239	15,000	26,120	26,120	0
2025	64,084	7,089	56,995	15,000	20,998	20,998	0
2026	60,921	16,310	44,611	15,000	14,806	14,806	0
2027	57,759	0	57,759	15,000	21,380	21,380	0
2028	54,768	0	54,768	15,000	19,884	19,884	0
2029	52,439	0	52,439	15,000	18,719	18,719	0
2030	50,110	330	49,780	15,000	17,390	17,390	0
2031	273,369	2,754	270,615	15,000	38,331	127,808	89,476
2032	271,959	4,269	267,689	15,000	35,435	126,345	90,910
2033	270,548	5,077	265,471	15,000	32,336	125,235	92,899
2034	269,138	6,289	262,848	15,000	29,130	123,924	94,794
2035	267,727	8,613	259,114	15,000	25,907	122,057	96,150
2036	257,765	9,623	248,142	15,000	22,431	116,571	94,140
2037	247,752	12,350	235,402	15,000	18,954	110,201	91,247
2038	237,688	12,350	225,338	15,000	15,258	105,169	89,911
2039	227,572	12,350	215,223	15,000	11,562	100,111	88,549
2040	217,405	12,350	205,055	15,000	0	95,028	95,028
2041	207,157	12,350	194,807	15,000	0	89,904	89,904
2042	196,856	12,350	184,506	15,000	0	84,753	84,753
2043	186,502	12,350	174,152	15,000	0	79,576	79,576
2044	176,093	12,350	163,743	15,000	0	74,372	74,372
2045	165,630	12,350	153,280	15,000	0	69,140	69,140
2046	155,112	12,350	142,762	15,000	0	63,881	63,881
2047	144,538	12,350	132,188	15,000	0	58,594	58,594
2048	133,907	12,350	121,557	15,000	0	53,279	53,279
2049	123,220	12,350	110,870	15,000	0	47,935	47,935
2050	3,477	3,477	0	0	0	0	0

TABLE E-1
CENTRAL ARIZONA PROJECT - LONG-TERM WATER FORECAST
NORMAL YEAR PROJECTION

Notes:

- 1 All normal water supply years assumed for planning purposes. Surplus and shortage conditions may occur, but the timing and magnitude of such events is beyond the scope of this study.
- 2 It is assumed that Gila River Indian Community CAP water demands are reduced by 12,600 af due to effluent deliveries as part of exchange with Mesa and Chandler.
- 3 It is assumed that the Indian demands for the Gila and San Carlos will increase in 2004 due to drought deliveries and return to a normal build up schedule.
- 4 Current Off-Reservation Lease agreements total 154,000 af.
- 5 Total Off-Reservation Lease in the future may total 193,198 af, which includes current lease agreements (154,000 af) plus 3,480af (SCAT/Globe), 34,200 af TON water and 1,518 af of Camp Verde water, assumed to be used in 2050.
- 6 Federal water held for future settlements (69,800 af) may be allocated and used for On-Reservation or Off-Reservation uses. It is assumed that the remaining Fed water is allocated and used by 2050 in the CAP service area.
- 7 NIA Pool Water (96,295 af) will be reallocated to M&I use from 2010-2030. It is assumed that 32,000 af is allocated to non-CAGRDR users in 2020 and remaining is used by others for non-CAGRDR purposes after 2035.
- 8 ~207,000 af has been allocated/set aside for future use. It is assumed that all CAP water will be contracted and used by 2050. The 207,000 af includes 96,295 af (NIA), 69,800 af (Fed Future), and 39,000 af (Future Off-Res).
- 9 CAGRDR Remaining Annual Obligations = CAGRDR annual obligation demands 2years after gw pumping): CAGRDR M&I included in long-term M&I category.
- 10 CAGRDR Replenishment Reserve and AWBA for M&I firming may share the remaining excess pool per statute. The CAGRDR and AWBA may elect to yield their priority annually.
- 11 CAGRDR Annual Obligation assumes no increase in existing Member Service Area obligations after 2035 demands and assumes no "de-enrollment".
- 12 WAS Scottsdale membership is shown seperately from CAGRDR Annual Obligation and relies on excess water. When excess water is not available Scottsdale has pledged Harquahala groundwater to be wheeled for replenishment.
- 13 Uses ADWR 2/2004 On-River Demands update.

**TABLE E-2
WATER SUPPLY INVENTORY**

	Total Supply AF/YR	Current Use AF/YR	Current Use Type	Maximum Acquisition Volume AF/YR	Owner	Supply Priority	Durability	Term	
SUPPLIES TO BE TRANSPORTED IN THE CAP CANAL	INDIAN CAP SUPPLIES								
	Ak Chin	75,000-85,000	81,025	Irrigation, Leased for M&I	13,000 ^A	Ak Chin Tribe	= to CAP M&I	Perpetual	Short & Long
	Fort McDowell	18,233	TBD	TBD	3,646 ^C	FMIC	= to CAP M&I	Perpetual	Short & Long
	Gila River	653,500 ^B	68,150	Irrigation, On-reservation M&I	116,700 ^C	GRIC	Varies, Most = to CAP M&I	Perpetual	Short & Long
	San Carlos	64,145	7,000	SRP Exchange	11,789 ^C	San Carlos Tribe	= to CAP M&I	Perpetual	Short & Long
	Tohono O'Odham	66,000	9,899	Irrigation, On-reservation M&I	13,200 ^D	Tohono O'Odham	= to CAP M&I	Perpetual	Short
	COLORADO RIVER SUPPLIES								
	First Priority Indian Rights								
	Colorado River Indian Tribe	662,402 ^E	374,416	Irrigation, On-reservation M&I	111,105 ^F	CRIT	> CAP	Perpetual	Short & Long
	Fort Mojave Indian Tribe	96,416 ^E	62,350 ^G	Irrigation, On-reservation M&I	28,852 ^F	Ft. Mojave Tribe	> CAP	Perpetual	Short & Long
	First Priority Non-Indian Rights								
	Yuma County Water Users Assoc	254,200 ^E	237,747	Irrigation, M&I	47,550 ^H	YCWUA	> CAP	Perpetual	Long
	Yuma Mesa Auxiliary Unit B	6,800 ^E	18,724	Irrigation	1,360 ^H	YMA Unit B	> CAP	Perpetual	Long
	North Gila Valley Unit	24,500 ^E	18,874	Irrigation	3,775 ^H	NGV	> CAP	Perpetual	Long
	Misc. Present Perfected Rights	11,418 ^E	Unquantified	Irrigation, Domestic, M&I	0	MPPR	> CAP	Perpetual	Long
	Second & Third Priority Rights								
	Wellton-Mohawk IDD	278,000 ^J	285,573	Irrigation	55,600 ^K	WMIDD	> CAP	Perpetual	Long
	Yuma Mesa IDD	250,000 ^J	161,798	Irrigation	50,000 ^K	YMIDD	> CAP	Perpetual	Long
	Fourth Priority Rights								
	Cibola Valley IDD	24,120	21,409 ^L	Irrigation	19,634 ^M	CVIDD	Varies, some = to CAP, some junior	Perpetual	Long
GROUNDWATER SUPPLIES									
	Total AF In Storage								
McMullen Valley	6,100,000	32,000	Irrigation	36,000	City of Phoenix	Not Subject to Shortage	Exhaustible	Long	
Harquahala Basin	15,500,000	10,000	Irrigation	80,000	HVIDD	Not Subject to Shortage	Exhaustible	Long	
Butler Valley	6,500,000	4,000	Irrigation	65,000	State of Arizona	Not Subject to Shortage	Exhaustible	Long	
Yuma Groundwater Exchange	200,000	< 10,000	De watering	10,000	BOR/YCWUA	< CAP M&I	Exhaustible	Short	
SUPPLIES RECHARGED LOCALLY	AMA EFFLUENT SUPPLIES								
	Phoenix AMA								
		Total Supply AF/YR							
	91st Ave WWTP (SROG)	200,786 ^N	138,000 ^O	Discharge/reuse (BIC & PVNGS)	62,786	SROG	Derived from M&I Use	Expanding	Short & Long
	23rd Ave WWTP	70,569 ^N	30,000 ^O	Discharge/RID Exchange	40,569	Phoenix	Derived from M&I Use	Expanding	Short & Long
	Tolleson	TBD	TBD	TBD	TBD	Tolleson	Derived from M&I Use	Expanding	Short & Long
	Peoria	TBD	TBD	TBD	TBD	Peoria	Derived from M&I Use	Expanding	Short & Long
	Mesa NWWRF	20,163 ^N	8,961 ^O	Discharge/reuse/recharge	11,200	Mesa	Derived from M&I Use	Expanding	Short & Long
	Cave Creek WRP	8,961 ^N	5,000	Discharge/reuse	4,961	Phoenix	Derived from M&I Use	Expanding	Short & Long
	Avondale WWTP	7,169 ^N	0	Discharge	7,169	Avondale	Derived from M&I Use	Expanding	Short & Long
	El Mirage	4,033 ^N	0	Discharge/reuse	4,033	El Mirage	Derived from M&I Use	Expanding	Short & Long
	Tucson AMA								
	Roger Road/ Ina/ USBR-SAWRSA	87,925 ^N	15,600 ^O	Discharge/reuse	72,325	Pima County	Derived from M&I Use	Expanding	Short & Long
Avra Valley WWTP	2,464 ^N	0	Discharge/reuse	2,464	Pima County	Derived from M&I Use	Expanding	Short & Long	

**TABLE E-2
WATER SUPPLY INVENTORY**

	Admin/Legal/ Regulatory Issues	Environmental Issues	
SUPPLIES TO BE TRANSPORTED IN THE CAP CANAL	INDIAN CAP SUPPLIES		
	Ak Chin	Fully Used Supply	EA Required
	Fort McDowell		EA Required
	Gila River	Require Settlement for Lease Authority	EA Required
	San Carlos	Scottsdale Right of First Refusal	EA Required
	Tohono O'Odham	Portion of Supply Tied to Gila Settlement	EA Required
	COLORADO RIVER SUPPLIES		
	<i>First Priority Indian Rights</i>		
	Colorado River Indian Tribe	Fed Legislation/EIS/Tribal Negs/CAP Wheeling	EA Required
	Fort Mojave Indian Tribe	Fed Legislation/EIS/Tribal Negs/CAP Wheeling	EA Required
	<i>First Priority Non-Indian Rights</i>		
	Yuma County Water Users Assoc	Negs/Federal & State Approval/EIS/CAP Wheeling	EA Possible
	Yuma Mesa Auxiliary Unit B	Negs/Federal & State Approval/EIS/CAP Wheeling	EA Possible
	North Gila Valley Unit	Negs/Federal & State Approval/EIS/CAP Wheeling	EA Possible
	Misc. Present Perfected Rights	Negs/Federal & State Approval/EIS/CAP Wheeling	EA Possible
	<i>Second & Third Priority Rights</i>		
	Wellton-Mohawk IDD	Negs/Federal & State Approval/EIS/CAP Wheeling	EA Possible
	Yuma Mesa IDD	Negs/Federal & State Approval/EIS/CAP Wheeling	EA Possible
	<i>Fourth Priority Rights</i>		
	Cibola Valley IDD	Private Party & SLD Negs/Federal & State Approval/EIS/CAP Wheeling	Land management
	GROUNDWATER SUPPLIES		
	McMullen Valley	Phoenix Negs/Existing Statute Conformance/CAP Wheeling	EA Possible
	Harquahala Basin	Negs/Federal & State Approval/EIS/CAP Wheeling	EA Possible
	Butler Valley	SLD Water Sale Process/Negs/CAP Wheeling	EA Possible
	Yuma Groundwater Exchange	BOR Negs/CAP Wheeling	None
	SUPPLIES RECHARGED LOCALLY	AMA EFFLUENT SUPPLIES	
		<i>Phoenix AMA</i>	
91st Ave WWTP (SROG)		Recharge Facility, ACOE Permits, Environmental	Yes
23rd Ave WWTP		Wheeling Agreements/Recharge Facility	Yes
Tolleson		Recharge Facility, ACOE Permits, Environmental	Yes
Peoria		Recharge Facility, ACOE Permits, Environmental	Yes
Mesa NWWRF		Conveyance Infrastructure/Permits/GRUSP Agreement	Yes
Cave Creek WRP		Recharge Facility, ACOE Permits, Environmental	Yes
Avondale WWTP		Recharge Facility, ACOE Permits, Environmental	Yes
El Mirage		Recharge Facility, ACOE Permits, Environmental	Yes
<i>Tucson AMA</i>			
Roger Road/ Ina/ USBR-SAWRSA		Recharge Facility, ACOE Permits, Environmental	Yes
Avra Valley WWTP		Recharge Facility, ACOE Permits, Environmental	Yes

**TABLE E-2
WATER SUPPLY INVENTORY**

Footnotes:

- A. Based on leasing the water made available by a 20% reduction in on-reservation irrigation use
- B. Post-Settlement water budget includes non-CAP sources
- C. Based on 20% of uncommitted supplies being available as CAP water
- D. Based on 20% of total CAP entitlement
- E. Diversion right
- F. Undiverted diversion right in 2002 reduced by a 62% consumptive use rate, plus a 20% following of reported 2002 diversions reduced by a 62% consumptive use rate
- G. Bureau of Reclamation preliminary estimate of 2002 diversions minus return flow
- H. 20% of the lesser of the diversion right or 2002 consumptive use
- I. Information on the current use of each PPR was not available. Assumes these supplies will not be available to CAGRDR due to need for other uses.
- J. Consumptive use right
- K. Based on 20% of the consumptive use right
- L. Estimated consumptive use in 2002
- M. Based on the fourth priority diversion right reduced based on a consumptive use rate of 81.4%, since entire right is being offered for sale
- N. Total supply based on currently permitted treatment capacity
- O. Figure represents the amount reused or committed for other uses
- P. Calculation based on 29% return from CAGRDR member deliveries

**TABLE E-3
WATER SUPPLIES FOR REPLENISHMENT RESERVE**

YEAR	Supplies from Water Supply Portfolio	Excess CAP Water	Existing Storage Credits	TOTAL
2004	0	5,200	0	5,200
2005	0	11,800	100	11,900
2006	0	19,200	600	19,800
2007	0	21,900	900	22,800
2008	0	25,100	1,200	26,300
2009	0	25,000	1,400	26,400
2010	0	26,000	1,600	27,500
2011	0	28,300	1,700	30,000
2012	5,000	24,000	1,900	30,800
2013	0	32,900	2,200	35,100
2014	0	36,400	2,500	38,900
2015	0	39,800	3,000	42,800
2016	0	31,200	15,400	46,600
2017	0	36,300	3,500	39,800
2018	3,600	37,100	3,700	44,500
2019	0	43,600	4,600	48,200
2020	0	8,500	44,800	53,200
2021	14,200	0	43,400	57,600
2022	25,900	0	37,200	63,100
2023	12,100	0	56,000	68,000
2024	2,300	26,100	43,600	72,000
2025	0	21,000	56,100	77,100
2026	0	14,800	66,700	81,500
2027	9,500	21,400	54,400	85,300
2028	5,000	19,900	59,500	84,400
2029	2,000	18,700	61,900	82,600
2030	0	17,400	25,500	42,900
2031	0	38,300	1,900	40,300
2032	0	35,400	1,800	37,300
2033	0	32,300	1,800	34,100
2034	0	29,100	1,700	30,800
2035	0	25,900	1,600	27,500
2036	0	22,400	1,500	24,000
2037	0	19,000	1,500	20,400
2038	0	15,300	1,300	16,600
2039	0	11,600	1,200	12,700
2040	0	0	8,800	8,800
2041	0	0	8,000	8,000
2042	0	0	7,200	7,200
2043	0	0	6,300	6,300
2044	0	0	5,500	5,500
2045	0	0	4,600	4,600
2046	0	0	4,200	4,200
2047	0	0	3,700	3,700
2048	0	0	2,700	2,700
2049	0	0	1,300	1,300
2050	0	0	0	0
Total	79,600	820,900	660,000	1,560,300

APPENDIX F

DATA TABLES REGARDING AVAILABLE FACILITIES

Table F-1 - Inventory of Storage Capacity Available for Use by the CAGR D at Recharge Facilities (GSFs and USFs)

TABLE F-1
INVENTORY OF STORAGE CAPACITY AVAILABLE FOR USE BY THE CAGR D AT RECHARGE FACILITIES (GSFs AND USFs)

Project Name	Type	Permit No.	Basin	Status	Capacity (AF/YR)		Replenishment Capacity Potentially Available to CAGR D (AF/YR)							
					Permitted	Operational	2005	2010	2015	2020	2025	2030	2035	
PHOENIX AMA														
Tonopah Desert Recharge Project	USF	71-593305	Phoenix AMA	2006	150,000	150,000	0	150,000	150,000	150,000	150,000	150,000	150,000	150,000
Tonopah Irrigation District	GSF	72-534439	Phoenix AMA	Operating	15,000	9,000	7,489	7,376	7,356	7,337	7,176	7,050	4,749	
Douglas Ranch Recharge Project	USF	Possible	Phoenix AMA	Possible	na	na	tba	tba	tba	tba	tba	tba	tba	
West Maricopa Combine	USF	71-578112	Phoenix AMA	2004	25,000	18,750	9,375	9,375	9,375	9,375	9,375	9,375	9,375	
White Tanks Recharge Project	USF	Possible	Phoenix AMA	Possible	na	na	tba	tba	tba	tba	tba	tba	tba	
Sun City Grand	USF	71-556007	Phoenix AMA	Operating	4,000	3,000	0	0	0	0	0	0	0	
Water Campus	USF	71-560648	Phoenix AMA	Operating	16,800	12,600	0	0	0	0	0	0	0	
Riparian Preserve	USF	71-564416	Phoenix AMA	Operating	4,369	3,277	0	0	0	0	0	0	0	
Crystal Gardens Wetlands	USF	71-565257	Phoenix AMA	Operating	10,000	7,500	0	0	0	0	0	0	0	
Anthem	USF	71-566962	Phoenix AMA	Operating	10,000	7,500	0	0	0	0	0	0	0	
North Scottsdale Aquifer Storage & Replenishment Project	USF	71-574911	Phoenix AMA	2004	3,460	3,460	0	0	0	0	0	0	0	
Hieroglyphic Mountains Recharge Project	USF	71-584466	Phoenix AMA	Operating	35,000	35,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	
Sactuary Golf at Westworld	USF	71-574911	Phoenix AMA	Operating	1,000	1,000	0	0	0	0	0	0	0	
Gainey Ranch	USF	71-580643	Phoenix AMA	Operating	650	650	0	0	0	0	0	0	0	
Granite Reef Underground Storage Project	USF	71-516371	Phoenix AMA	Operating	200,000	60,000	0	0	0	0	0	0	0	
Agua Fria Recharge Project	USF	71-569775	Phoenix AMA	Operating	100,000	60,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	
NAUSR P	USF	Possible	Phoenix AMA	Possible	35,000	na	tba	tba	tba	tba	tba	tba	tba	
Maricopa Water District	GSF	72-558246	Phoenix AMA	Operating	40,000	27,000	6,023	3,429	494	5,750	3,491	2,045	1,672	
Agua Fria Linear Recharge Project	USF	Possible	Phoenix AMA	2008	na	na	tba	tba	tba	tba	tba	tba	tba	
Cave Creek Effluent Recharge Project	USF	Possible	Phoenix AMA	2005	9,000	3,000	tba	tba	tba	tba	tba	tba	tba	
Salt River Project	GSF	72-553133	Phoenix AMA	Operating	200,000	62,000	35,136	20,631	13,355	18,688	12,668	7,741	6,534	
Superstition Mountains Recharge Project	USF	PLANNED	Phoenix AMA	2005	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	
Queen Creek Irrigation District	GSF	72-534550	Phoenix AMA	Operating	28,000	12,000	0	0	0	4,930	3,058	1,993	1,727	
Chandler Heights Citrus Irrigation District	GSF	72-534753	Phoenix AMA	Operating	3,000	1,200	0	0	0	0	0	0	0	
New Magma Irrigation District	GSF	72-534888	Phoenix AMA	Operating	54,000	51,000	2,708	0	0	27,700	26,187	25,011	24,261	
Roosevelt Water Conservation District	GSF	72-545695	Phoenix AMA	Operating	100,000	61,000	53,442	38,514	25,797	13,077	10,927	8,952	8,319	
Phoenix AMA Subtotal					1,074,279	618,937	219,173	334,325	311,377	341,857	327,883	317,167	311,638	
PINAL AMA														
Maricopa Stanfield Irrigation & Drainage District	GSF	72-531381	Pinal AMA	Operating	120,000	56,000	0	0	0	34,198	32,234	31,418	29,179	
Hohokam Irrigation District	GSF	72-534489	Pinal AMA	Operating	55,000	56,000	0	0	0	48,187	47,273	46,956	46,421	
Central Arizona Irrigation & Drainage District	GSF	72-531382	Pinal AMA	Operating	110,000	42,000	0	0	0	15,284	14,929	14,732	14,552	
Pinal AMA Subtotal					285,000	154,000	0	0	0	97,669	94,436	93,106	90,153	
TUCSON AMA														
Kai - Picacho	GSF	72-558092	Tucson AMA	Operating	11,231	8,000	6,095	6,095	6,095	7,218	7,218	7,218	7,218	
Avra Valley Recharge Project	USF	71-564896	Tucson AMA	Operating	11,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	
Lower Santa Cruz Recharge Project	USF	71-561366	Tucson AMA	Operating	50,000	40,000	39,600	39,600	39,600	39,600	39,600	39,600	39,600	
Canado Del Oro	USF	Possible	Tucson AMA	Possible	na	na	tba	tba	tba	tba	tba	tba	tba	
Cortaro Marana Irrigation District	GSF	72-538100	Tucson AMA	Operating	20,000	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725	
BKW Marana	GSF	72-538133	Tucson AMA	Operating	16,641	5,000	3,927	3,927	3,927	3,927	3,927	3,927	3,927	
Kai - AVID	GSF	72-564430	Tucson AMA	Possible	12,513	na	tba	tba	tba	tba	tba	tba	tba	
Clearwater Aquifer Storage and Recovery Project	USF	71-578806	Tucson AMA	Operating	60,000	45,000	0	0	0	0	0	0	0	
Clearwater Aquifer Storage and Recovery Project Expanded	USF	Possible	Tucson AMA	Possible	30,000	22,500	tba	tba	tba	tba	tba	tba	tba	
BKW Milewide	GSF	72-563502	Tucson AMA	Operating	627	350	350	350	350	350	350	350	350	
Pima Mine Road Recharge Project	USF	71-577501	Tucson AMA	Operating	30,000	30,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	
Farmers Investment Company	GSF	72-584465	Tucson AMA	Possible	22,000	na	tba	tba	tba	tba	tba	tba	tba	
Tucson AMA Subtotal					264,012	164,575	78,697	78,697	78,697	79,820	79,820	79,820	79,820	
TOTAL					1,623,291	937,512	297,870	413,022	390,074	519,346	502,139	490,092	481,611	

APPENDIX G

POLICIES REGARDING CAGRD FUNDING MECHANISMS

1. CAGRD Enrollment Fee and Activation Fee Policy (Adopted May 6, 2004)
2. Report and Recommendation Concerning CAGRD Enrollment Fee and CAGRD Activation Fee
3. CAGRD Assessment Rate Setting Policy (Adopted June 17, 2004)

CAGR D ENROLLMENT FEE AND ACTIVATION FEE POLICY

ENROLLMENT FEE FOR MEMBER LANDS

CAWCD hereby establishes an Enrollment Fee for Member Lands to be set and assessed as set forth below.

1. Applicants seeking to enroll land as Member Lands of the CAGR D shall pay an Enrollment Fee at the time of application for membership.
2. The Enrollment Fee shall be assessed per unit, on the total number of housing units in the subdivision seeking enrollment in the CAGR D, subject to a minimum Enrollment Fee and a maximum number of housing units as set forth in the attached report titled "Report and Recommendation Regarding CAGR D Enrollment Fee and CAGR D Activation Fee."
3. The Enrollment Fee shall become effective upon adoption of this Policy.
4. The Board shall set the Enrollment Fee annually after providing advance notice of the fee and providing adequate time for public comment. It is contemplated that the Board will adopt the annual Enrollment Fee at the same time it adopts the final CAGR D annual assessment rate schedule.
5. The amount of the Enrollment Fee shall be set in accordance with the methodology outlined in the attached report titled "Report and Recommendation Regarding CAGR D Enrollment Fee and CAGR D Activation Fee" and shall be the same for all Active Management Areas.
6. Revenues from the Enrollment Fee will be used by CAWCD, among other revenues, to acquire water rights and develop infrastructure necessary for the CAGR D.

ACTIVATION FEE

CAWCD hereby establishes an Activation Fee to be set and assessed as set forth below.

1. All subdivisions within existing* Member Lands and Member Service Areas that have not yet received an approved public report from the Arizona Department of Real Estate shall pay an Activation Fee. Further, all subdivisions within future*

* For purposes of this Policy, the term "existing Member Lands and Member Service Areas" means those CAGR D Member Lands and/or Member Service Areas that qualified for membership in the CAGR D before May 6, 2004. The term "future Member Lands and Member Service Areas" means those CAGR D Member Lands and/or Member Service Areas that qualify for membership in the CAGR D on or after May 6, 2004.

Member Lands and Member Service Areas shall pay an Activation Fee. The Activation Fee shall be paid to CAGRDR on behalf of such subdivisions before issuance of a public report.

2. The Activation Fee shall be a one-time, per-unit fee assessed on the total number of housing units in each affected subdivision.
3. For subdivisions in future Member Lands, the Activation Fee shall become effective upon adoption of this Policy. For subdivisions in existing Member Lands and existing and future Member Service Areas that have not received an approved public report from the Arizona Department of Real Estate, the Activation Fee shall become effective upon the enactment of legislation providing for the collection of such a fee.
4. The Board shall set the Activation Fee annually after providing advance notice of the fee and providing adequate time for public comment. It is contemplated that the Board will adopt the annual Activation Fee at the same time it adopts the final CAGRDR annual assessment rate schedule.
5. The amount of the Activation Fee shall be set in accordance with the methodology outlined in the attached report titled "Report and Recommendation Regarding CAGRDR Enrollment Fee and CAGRDR Activation Fee" and shall be the same for all Active Management Areas.
6. Revenues from the Activation Fee will be used by CAWCD, among other revenues, to acquire water rights and develop infrastructure necessary for the CAGRDR.

REPORT AND RECOMMENDATION
CONCERNING
CAGR D ENROLLMENT FEE
AND
CAGR D ACTIVATION FEE

BACKGROUND/SUMMARY

The CAGR D staff is in the process of developing a new Plan of Operation pursuant to the requirements of A.R.S. § 45-576.02. In December 2003, the CAGR D released a “Conceptual Plan – Discussion Paper” outlining the concepts that the CAGR D proposed to use in developing the new Plan of Operation. In January 2004, CAWCD established a working group of CAGR D stakeholders to discuss the issues relating to the Plan of Operation. During the succeeding two months, the Stakeholder Working Group and CAGR D staff met every Friday from 9:30 a.m. to 3:30 p.m. As a result of the Stakeholder Working Group process, CAGR D staff believes that it and the stakeholders have, among other things, developed a water supply acquisition plan for the CAGR D that has consensus support. Additionally, CAGR D staff believes that it and the stakeholders have developed a model/concept for funding the water supply acquisition plan that has consensus support. The purpose of this report is to summarize the concepts and recommendations for funding the water supply acquisition plan that CAGR D staff and the Stakeholder Working Group have jointly developed.

Staff believes that the concepts described below will allow the CAGR D to meet its statutory and contractual obligations as they are currently projected. Should the actual enrollment, obligations or costs prove to be significantly different from the estimates relied on by staff and the Stakeholder Working Group in developing the concepts described below, or if enrollment is to continue beyond 2015, some of the concepts will need to be revisited to address the change in conditions. Such work will continue to be done in cooperation with stakeholders, the Department of Water Resources and the CAGR D Board of Directors to insure that CAGR D can continue to successfully meet its obligations in perpetuity.

RECOMMENDATION

The concept for funding the water supply acquisition plan recommends that the CAGR D rely on three revenue sources: (1) an increased enrollment fee; (2) an activation fee; and (3) the water rights and infrastructure component in the CAGR D’s annual assessment rate.

1. The Increased Enrollment Fee for Member Lands

The CAGR D Board should adopt a policy that raises the enrollment fee for Member Lands from the current level of \$10 per unit (with a minimum fee of \$500 and maximum fee of \$2,500 for each application), to a higher level (the “Enrollment Fee”).

The Enrollment Fee shall be assessed per unit, based on the total number of housing units seeking enrollment in the CAGR D. The minimum Enrollment Fee should remain at the current level of \$500 per application. The Stakeholder Working Group has recommended that the maximum Enrollment Fee be established based on a maximum of 5,000 housing units. Staff’s original financial analyses assumed no maximum Enrollment Fee. Subsequent analysis by staff, based on historic enrollment activity, indicated that complying with the Stakeholder Working Group’s recommended maximum should not have a discernable impact on the Activation Fee or the Water Rights and Infrastructure Component of CAGR D’s Assessment Rates. Therefore, staff supports the Stakeholder Working Group’s recommendation to establish a maximum Enrollment Fee based on 5,000 housing units per application. However, if future Member Land enrollment practices deviate significantly from historic activity (i.e., numerous subdivisions with more than 5,000 units each apply for enrollment), staff will recommend that the maximum be revisited in an open and public process.

The methodology for setting the Enrollment Fee should be as follows. The Board should set the Enrollment Fee annually after providing advance notice of the fee and providing adequate time for public comment. For 2004, the Enrollment Fee should be set at \$20 per unit. Thereafter, the Enrollment Fee should be set at \$20 per unit or one-third of the Activation Fee (see Section 2 below), whichever is greater.

The Enrollment Fee should be paid at the time of filing an application to enroll as a Member Land in the CAGR D. Revenues from the Enrollment Fee, among other revenues, should be used by CAWCD to acquire water rights and develop infrastructure necessary for the CAGR D.

2. The Activation Fee

The CAGR D Board should adopt a policy that establishes an activation fee to be assessed against all subdivisions in existing and future Member Lands and Member Service Areas that have not yet received an approved public report from the Arizona Department of Real Estate (“ADRE”) (the “Activation Fee”).

The Activation Fee should be a one-time, per-unit fee to be paid on behalf of each subdivision within existing and future Member Lands and existing and future Member Service Areas that has not yet received an approved public report from ADRE. The Activation Fee must be paid before issuance of a public report.

The methodology for setting the Activation Fee should be as follows. The Board should set the Activation Fee annually after providing advance notice of the fee and providing adequate time for public comment. The Activation Fee should be set at an amount that

approximates the district-average, per-unit cost of the Water Rights and Infrastructure Component of CAGR D's assessment rates (see Section 3 below) multiplied by two, with a minimum Activation Fee of \$60 per unit. (The district-average, per-unit cost of the Water Rights and Infrastructure Component shall be calculated by multiplying the component times 0.4. Hence, if the Water Rights and Infrastructure Component of CAGR D's assessment rates were \$75 per acre-foot, the formula for computing the Activation Fee would be: $(\$75 \times .4) \times 2 = \60 .)

For subdivisions in future Member Lands, the Activation Fee shall become effective upon the CAGR D Board's adoption of a policy establishing such a fee. For subdivisions in existing Member Lands and existing and future Member Service Areas, the Activation Fee shall become effective upon the enactment of legislation providing for the collection of such a fee.

Revenues from the Activation Fee, among other revenues, should be used by CAWCD to acquire water rights and develop infrastructure necessary for the CAGR D.

3. THE WATER RIGHTS AND INFRASTRUCTURE COMPONENT OF CAGR D'S ASSESSMENT RATES

Currently, the CAGR D's annual assessment rates include a Water Rights and Infrastructure Component. This component should remain in the CAGR D Assessment Rates. CAGR D will have to significantly raise the Water Rights and Infrastructure Component of its annual assessment rates above the current level of \$15 per acre-foot of obligation. However, the increase should be phased in over a period of three years to reduce immediate impacts on CAGR D members.

CAGRD Assessment Rate Setting Policy

GOALS OF RATE SETTING

1. Cost recovery – “To pay the district’s costs and expenses to replenish groundwater” as required by statute.
2. Financial Stability – To reliably perform its services, the CAGRD must maintain a strong financial position and long-term balanced cash flows.
3. Price Stability and Predictability – CAGRD should make every effort to maintain relatively stable and predictable rates. If unforeseen changes are required, the changes should be announced well in advance and, if possible, phased in over a period of time.
4. Operational Efficiency – CAGRD commits to a goal of operating consistently with sound water resource management strategies at the lowest possible cost.
5. Accountability – Replenishment policies and assessment rates shall be established in a highly public process only after due consideration and analysis of economic and financial impacts, and inviting comment from all affected parties.
6. Legal Compliance – Any rate making processes and policies must be accomplished in accordance with statutory and contractual requirements.
7. Equity - To the extent feasible and consistent with legal and contractual requirements, establish and apply rates in a reasonable relationship to the cost of providing replenishment services for particular members.

ESTABLISHING ANNUAL ASSESSMENT RATES

1. Purpose – To allow for the District to levy an annual replenishment assessment against each parcel of member land and an annual replenishment tax against each municipal provider having a qualified member service area.
2. Deadline – Annual replenishment assessments and replenishment taxes must be levied on or before the third Monday in August of each year.
3. Process – A public rate setting process will be conducted annually. Annual assessment rates will be set only after being publicly announced and providing adequate time for public comment. The suggested calendar for the annual assessment rate setting process is as follows:
 - a) January-March – Municipal providers report excess groundwater delivered to member lands and member service areas.

- b) April – Staff develops proposed assessment rate schedule (using reported excess groundwater deliveries and CAP preliminary rate package) and delivers it to the Board for study.
 - c) May – Board adopts preliminary assessment rate package. Announcement is made through public notice, which also invites all interested parties to submit written comments.
 - d) May – Public comments are analyzed and reviewed by staff and final assessment rate recommendations are disseminated to the Board and interested parties.
 - e) June – Adoption of final assessment rate schedule.
4. Methodology – CAGRDR assessment rates shall consist of the following four components: a water & replenishment component, an administrative component, an infrastructure & water rights component and a replenishment reserve charge.
- a) Water & Replenishment Component – Staff will compute this component separately for each active management area (AMA) based on the cost to purchase and replenish adequate water supplies. The following considerations will be made in computing this component:
 - i) All costs of purchasing and transporting water supplies will be included in this component. If excess CAP water is used, the rate as determined by the CAWCD Board in its annual CAP Water Rate Schedule, but not less than the full cost M&I Excess Water rate, will be charged to the CAGRDR and included in this component;
 - ii) To the extent allowed by state law, a member with a CAP subcontract entitlement may schedule all or a portion of its entitlement for delivery to a recharge/replenishment facility acceptable to CAGRDR and transfer the resulting storage credits to the CAGRDR for use in meeting the groundwater replenishment obligation incurred as a result of that member’s excess groundwater pumping. The corresponding cost savings realized by CAGRDR will be reflected in that member’s replenishment assessment/tax;
 - iii) Replenishment will be accomplished at reasonably priced facilities in consideration of water resource management goals, with preference for use of state demonstration projects when appropriate;
 - iv) The cost of all losses and statutorily required “cuts to the aquifer” will be included;
 - v) In the event that CAGRDR decides to transfer credits from its replenishment reserve subaccount to its conservation district subaccount to satisfy all or a portion of its replenishment obligations, this component shall include a reserve replacement component computed in accordance with existing statutes.
 - b) Administrative Component – Staff will compute one administrative component that will be in effect for all three AMAs. The following considerations will be made in computing this component:
 - i) All costs of administering the CAGRDR shall be included in this component;
 - ii) Revenues derived from statutorily authorized fines and penalties shall be used to offset administrative costs;

- iii) The costs of repaying those advances from CAWCD that were used to cover CAGR D administrative costs shall be included in this component;
 - iv) The cost to establish and maintain appropriate administrative reserve funds shall be included in this component.
 - c) Infrastructure & Water Rights Component - Staff will compute this component separately for each AMA. The following considerations will be made in computing this component:
 - i) The costs of securing rights to long-term water supplies;
 - ii) The costs of replenishment facilities developed by the CAGR D to meet its replenishment obligations;
 - iii) The cost to establish and maintain appropriate capital reserve funds shall be included in this component.
 - d) Replenishment Reserve Charge - Staff will compute this component separately for each AMA. The following considerations will be made in computing this component:
 - i) The statutes that require CAGR D to establish and maintain a replenishment reserve of long-term storage credits for each AMA will be the basis for computing this component;
 - ii) This component will include all costs of purchasing and replenishing water, including losses and required “cuts to the aquifer;”
 - iii) Replenishment reserve storage will be accomplished using the least expensive facilities possible, provided that the facilities are appropriate for long-term storage of water for CAGR D purposes;
- 5. Forward Announcement of Rates – CAGR D will announce rates annually in a formally adopted CAGR D Assessment Rate Schedule. The Schedule shall include the “firm” rate for the current year, and “advisory” rates for the four succeeding years. The advisory rates are provided for member planning purposes, but are subject to change.
- 6. Carryover Adjustment – Adjustment for any shortfall or surplus in revenues resulting from differences between projected costs and actual costs will be made in the next rate setting process.
- 7. Alternative Methods of Paying Replenishment Assessments/Taxes that Could Affect Assessment Rates – Members wishing to offset a portion of their replenishment assessment or tax through the direct transfer of long-term storage credits to the CAGR D may do so under the following conditions.
 - a) All or any portion of the Water & Replenishment Component of the assessment rate may be offset by transferring a corresponding volume of appropriate long-term storage credits to the CAGR D. Appropriate credits are defined as follows:
 - i) Credits accrued from storage of CAP water purchased from CAWCD at the full CAP M&I price, including the CAP capital component; and

- ii) Credits accrued at underground storage facilities that are located in close proximity to the members' groundwater pumping, or facilities that are otherwise acceptable to CAGRDR; and
 - iii) Credits that can be legally transferred in accordance with state law to the CAGRDR for use in offsetting CAGRDR's existing groundwater replenishment obligation.
- b) All or any portion of the Replenishment Reserve Charge may be offset by transferring a corresponding volume of appropriate long-term storage credits to the CAGRDR. Appropriate credits are defined as follows:
- i) Credits accrued at underground storage facilities that are acceptable to CAGRDR; and
 - ii) Credits that can be legally transferred in accordance with state law to the CAGRDR for use in establishing and/or maintaining CAGRDR's replenishment reserve.
- c) The member submits a written request along with its CAGRDR Annual Report. The request must include the proposed volume of credits to be transferred, the source and price of water used to accrue the credits, and the facility at which the credits were accrued.
- d) Members may transfer long-term storage credits to the CAGRDR in advance of the need to pay assessments/taxes provided that such transfer and ultimate use of the credits complies with all of the conditions above.

ESTABLISHING CONTRACT REPLENISHMENT ASSESSMENT RATES

1. Purpose – To allow for the District to levy an annual contract replenishment tax against each qualified member service area that has entered into a contract to replenish groundwater.
2. Deadline – Annual contract replenishment taxes must be levied on or before the third Monday in August of each year.
3. Process – The method of calculating the contract replenishment assessment rate shall be provided in each contract to replenish groundwater.