Appendix H

Annual Water Supply Availability Projections

Projected District Water Supplies

Calendar Year	CMWD Tier 1	CMWD Tier 2	CMWD M&I Purchase	CMWD Ag[c] Purchase	CMWD Total Purchase	District RW	GW Pumping[d]	Total Supply	Total Demand[a]	Ag Demand	M&I Demand	Running 10-year Ave[b]	Accumulated GW Credits
2002	NA	NA	6,563	2,733	9,296	0	2,474	11,770	11,366	3,174	8,192	NA	5,310
2003	7,411	0	7,411	2,733	10,144	0	1,950	12,094	12,094	3,174	8,920	7,411	5,834
2004	7,411	203	7,614	2,733	10,347	0	2,474	12,821	12,821	3,174	9,647	7,411	5,834
2005	7,411	68	7,479	2,733	10,212	1,008	2,329	13,549	13,549	3,174	10,375	7,411	5,834
2006	7,411	443	7,854	2,733	10,587	1,008	2,329	13,924	13,924	3,174	10,750	7,411	5,834
2007	7,411	817	8,228	2,733	10,961	1,008	2,329	14,298	14,298	3,174	11,124	7,411	5,834
2008	7,411	1,192	8,603	2,733	11,336	1,008	2,329	14,673	14,673	3,174	11,499	7,411	5,834
2009	7,411	1,566	8,977	2,733	11,710	1,008	2,329	15,047	15,047	3,174	11,873	7,645	5,834
2010	7,411	1,079	8,490	2,733	11,223	2,016	2,183	15,422	15,422	3,174	12,248	7,837	5,834
2011	7,432	1,268	8,700	2,733	11,433	2,016	2,183	15,632	15,632	3,174	12,458	7,992	5,834
2012	7,543	1,367	8,910	2,733	11,643	2,016	2,183	15,842	15,842	3,174	12,668	8,227	5,834
2013	8,227	893	9,119	2,733	11,852	2,016	2,183	16,051	16,051	3,174	12,877	8,397	5,834
2014	8,397	932	9,329	2,733	12,062	2,016	2,183	16,261	16,261	3,174	13,087	8,569	5,834
2015	8,569	970	9,539	2,733	12,272	2,016	2,183	16,471	16,471	3,174	13,297	8,775	5,834
2016	8,775	974	9,749	2,733	12,482	2,016	2,183	16,681	16,681	3,174	13,507	8,964	5,834
2017	8,964	994	9,959	2,733	12,692	2,016	2,183	16,891	16,891	3,174	13,717	9,137	5,834
2018	9,137	1,031	10,168	2,733	12,901	2,016	2,183	17,100	17,100	3,174	13,926	9,294	5,834
2019	9,294	1,084	10,378	2,733	13,111	2,016	2,183	17,310	17,310	3,174	14,136	9,434	5,834
2020	9,434	1,154	10,588	2,733	13,321	2,016	2,183	17,520	17,520	3,174	14,346	9,644	5,834
2021	9,644	944	10,588	2,733	13,321	2,016	2,183	17,520	17,520	3,174	14,346	9,833	5,834
2022	9,833	755	10,588	2,733	13,321	2,016	2,183	17,520	17,520	3,174	14,346	10,001	5,834
2023	10,001	587	10,588	2,733	13,321	2,016	2,183	17,520	17,520	3,174	14,346	10,147	5,834
2024	10,147	441	10,588	2,733	13,321	2,016	2,183	17,520	17,520	3,174	14,346	10,273	5,834
2025	10,273	315	10,588	2,733	13,321	2,016	2,183	17,520	17,520	3,174	14,346	10,378	5,834

Notes:

(a) Demands derived from District's 2000 UWMP.

(b) Tier 1 annual allocation based on the greater of the 10-year rolling average or the previous year allocation.

(c) CMWD agricultural deliveries are based on CMWD annual allocation of agricultural water.

(d) Groundwater pumping is used to make-up the difference between agricultural and M&I demands and Tier 1 allocation. Groundwater pumping is limited to the annual FCGMA allocation and Tier 2 water is assumed to make up any remaining differences. No pumping of groundwater conservation credits is assumed under normal year conditions.

Appendix I

BMP Activity Reports

Water Supply & Reuse

Reporting Unit:
Ventura County Waterworks Dist. #1

Year:
2004

Report Not Filed

Accounts & Water Use

Reporting Unit Name:	Submitted to CUWCC	Year:
Ventura County Waterworks Dist. #1	**01/27/2005**	**2004**

A. Service Area Population Information:

1. Total service area population 35000

B. Number of Accounts and Water Deliveries (AF)

Type	Metered		Unmetered	
	No. of Accounts	Water Deliveries (AF)	No. of Accounts	Water Deliveries (AF)
1. Single-Family	8861	7083	0	0
2. Multi-Family	0	0	0	0
3. Commercial	160	720	6	15.8
4. Industrial	73	291	0	0
5. Institutional	58	919	2	9.8
6. Dedicated Irrigation	285	3305	0	0
7. Recycled Water	0	0	0	0
8. Other	217	291	1	.5
9. Unaccounted	NA	0	NA	0
Total	9654	12609	9	26.1

Metered **Unmetered**

Reported as of 12/7/05

BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit:	BMP Form Status:	Year:
Ventura County Waterworks Dist. #1	**100% Complete**	**2004**

A. Implementation

1. Based on your signed MOU date, 08/27/1991, your Agency STRATEGY DUE DATE is:	08/26/1993
2. Has your agency developed and implemented a targeting/ marketing strategy for SINGLE-FAMILY residential water use surveys?	yes
a. If YES, when was it implemented?	1/1/1993
3. Has your agency developed and implemented a targeting/ marketing strategy for MULTI-FAMILY residential water use surveys?	yes
a. If YES, when was it implemented?	1/1/1993

B. Water Survey Data

Survey Counts:	**Single Family Accounts**	**Multi-Family Units**
1. Number of surveys offered:	0	0
2. Number of surveys completed:	0	0
Indoor Survey:		
3. Check for leaks, including toilets, faucets and meter checks	yes	yes
4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary	yes	yes
5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as neccesary; replace leaking toilet flapper, as necessary	yes	yes
Outdoor Survey:		
6. Check irrigation system and timers	yes	yes
7. Review or develop customer irrigation schedule	yes	yes
8. Measure landscaped area (Recommended but not required for surveys)	yes	yes
9. Measure total irrigable area (Recommended but not required for surveys)	yes	yes
10. Which measurement method is typically used (Recommended but not required for surveys)		Other

11. Were customers provided with information packets that included evaluation results and water savings recommendations?	yes	yes
12. Have the number of surveys offered and completed, survey results, and survey costs been tracked?	yes	yes
a. If yes, in what form are surveys tracked?		spreadsheet

b. Describe how your agency tracks this information.

We keep records of each survey offered, status of each survey, resultant allocation adjustments, etc.

C. Water Survey Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	10000	10000
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

Reported as of 12/7/05

BMP 02: Residential Plumbing Retrofit

Reporting Unit:	BMP Form Status:	Year:
Ventura County Waterworks Dist. #1	**100% Complete**	**2004**

A. Implementation

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? — no

   a. If YES, list local jurisdictions in your service area and code or ordinance in each:

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? — yes

3. Estimated percent of single-family households with low-flow showerheads: — 82%

4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? — no

5. Estimated percent of multi-family households with low-flow showerheads: — 59%

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

   In 1986, the Plumbing Code was changed to require Ultra Low Flow showerheads and toilets. In 1986, the population in the service area was 14,034 and there were 4300 customer accounts. In 2000, the population was 34,000 and there were 10,500 accounts. 65% of the households in 2000 were new development governed by the 1986 Plumbing Code change. The remaining percentage estimates were reached by customer inquiry and recent new housing developments.

B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? — yes

   a. If YES, when did your agency begin implementing this strategy? — 1/1/1994

   b. Describe your targeting/ marketing strategy.

   We put a comment on our bills to advertise out "ULFT Toilet Rebate" Program.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	0	0
3. Number of toilet-displacement devices distributed:	0	0

4. Number of toilet flappers distributed:	0	0
5. Number of faucet aerators distributed:	0	0
6. Does your agency track the distribution and cost of low-flow devices?		yes
a. If YES, in what format are low-flow devices tracked?		Database

b. If yes, describe your tracking and distribution system :

We keep a database to identify all customers who receive rebates, and the number of rebates(maximum 2) for each customer. This allows us to determine the number and amount of rebates during any one year. We do not track cost of ULFTs because they are provided through CMWD

C. Low-Flow Device Distribution Expenditures

	This Year	Next Year
1. Budgeted Expenditures	1000	1000
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

Reported as of 12/7/05

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:	BMP Form Status:	Year:
Ventura County Waterworks Dist. #1	**100% Complete**	**2004**

A. Implementation

1. Has your agency completed a pre-screening system audit for this reporting year?	yes
2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:	
a. Determine metered sales (AF)	13044
b. Determine other system verifiable uses (AF)	9
c. Determine total supply into the system (AF)	13639
d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required.	0.96
3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production?	yes
4. Did your agency complete a full-scale audit during this report year?	no
5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit?	yes
6. Does your agency operate a system leak detection program?	yes

a. If yes, describe the leak detection program:

Purchases and sales are tracked on a monthly basis. We perform system leak detection when our unaccounted water loss >6%, and we repair all leaks when found. O&M staff has regularly scheduled system check. We also monitor unmetered water use, such as water used in flushing and other system maintenance.

B. Survey Data

1. Total number of miles of distribution system line.	127.5
2. Number of miles of distribution system line surveyed.	127.5

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	10000	10000
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?	No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

We compare production vs. consumption to be sure percentage of loss is less than 6%.

E. Comments

Reported as of 12/7/05

BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing

Reporting Unit:	BMP Form Status:	Year:
Ventura County Waterworks Dist. #1	**100% Complete**	**2004**

A. Implementation

1. Does your agency require meters for all new connections and bill by volume-of-use?	yes
2. Does your agency have a program for retrofitting existing unmetered connections and bill by volume-of-use?	no
a. If YES, when was the plan to retrofit and bill by volume-of-use existing unmetered connections completed?	
b. Describe the program:	
3. Number of previously unmetered accounts fitted with meters during report year.	0

B. Feasibility Study

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?	no
a. If YES, when was the feasibility study conducted? (mm/dd/yy)	
b. Describe the feasibility study:	
2. Number of CII accounts with mixed-use meters.	49
3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period.	0

C. Meter Retrofit Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?	No
a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."	

E. Comments

Reported as of 12/7/05

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:
Ventura County Waterworks Dist. #1

BMP Form Status:
100% Complete

Year:
2004

A. Water Use Budgets

1. Number of Dedicated Irrigation Meter Accounts:	285
2. Number of Dedicated Irrigation Meter Accounts with Water Budgets:	285
3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF):	14491
4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF):	11257
5. Does your agency provide water use notices to accounts with budgets each billing cycle?	yes

B. Landscape Surveys

1. Has your agency developed a marketing / targeting strategy for landscape surveys? yes

   a. If YES, when did your agency begin implementing this strategy? 1/1/1996

   b. Description of marketing / targeting strategy:

   District has contracted with a consultant to perform large landscape water audits for high use customers who exceed their allocations. At the time of billing. top water users are identified. Upon review of their accounts, if warranted, these customers are sent applications to request a review of their allocations. If a review of the account history and the information provided in the application suggests above normal water consumption, the customer will be offered a water audit. The audit will help determine the appropriateness of the allocation, and also used to determine methods of water conservation

2. Number of Surveys Offered. 0
3. Number of Surveys Completed. 0
4. Indicate which of the following Landscape Elements are part of your survey:
   - a. Irrigation System Check yes
   - b. Distribution Uniformity Analysis yes
   - c. Review / Develop Irrigation Schedules yes
   - d. Measure Landscape Area yes

e. Measure Total Irrigable Area — yes

f. Provide Customer Report / Information — yes

5. Do you track survey offers and results? — yes

6. Does your agency provide follow-up surveys for previously completed surveys? — yes

a. If YES, describe below:

We review the water use to confirm efficient water use. If customer continues having a problem being efficient, we offer a follow up audit to determine whether the conservation recommendations have been implemented and to review irrigation schedules.

C. Other BMP 5 Actions

1. An agency can provide mixed-use accounts with ETo-based landscape budgets in lieu of a large landscape survey program. Does your agency provide mixed-use accounts with landscape budgets? — yes

2. Number of CII mixed-use accounts with landscape budgets. — 21

3. Do you offer landscape irrigation training? — no

4. Does your agency offer financial incentives to improve landscape water use efficiency? — no

Type of Financial Incentive:	Budget (Dollars/ Year)	Number Awarded to Customers	Total Amount Awarded
a. Rebates	0	0	0
b. Loans	0	0	0
c. Grants	0	0	0

5. Do you provide landscape water use efficiency information to new customers and customers changing services? — yes

a. If YES, describe below:

The Ventura County Water Conservation Program coordinated efforts of numerous individuals and agencies on the Water Conservation Landscape Task Force to prepare the Landscape Design Criteria to comply with AB 325, Water Conservation in Landscaping Act. The Ventura County Board of Supervisors and the Board of Directors for the Ventura County Waterworks District No. 1 adopted the criteria in October 1992. The criteria use the water budget approach. We also have a variety of brochures available that detail plant water requirements and preferred irrigation practices, including "Sustainable Landscaping: Resource Efficient Landscape for the Central Coast," "Top Ten Ways to Conserve Water," and the County's "Landscape Design Criteria."

6. Do you have irrigated landscaping at your facilities?	yes
a. If yes, is it water-efficient?	yes
b. If yes, does it have dedicated irrigation metering?	yes
7. Do you provide customer notices at the start of the irrigation season?	yes
8. Do you provide customer notices at the end of the irrigation season?	yes

D. Landscape Conservation Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	21000	17500
2. Actual Expenditures	0	

E. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?	No
a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."	

F. Comments

Reported as of 12/7/05

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:	BMP Form Status:	Year:
Ventura County Waterworks Dist. #1	**100% Complete**	**2004**

A. Implementation

1. Do any energy service providers or waste water utilities in your service area offer rebates for high-efficiency washers? yes

   a. If YES, describe the offerings and incentives as well as who the energy/ waste water utility provider is.

   SCE and Metropolitan Water District (our District 1 provider) both offer a rebate program.

2. Does your agency offer rebates for high-efficiency washers? no
3. What is the level of the rebate?
4. Number of rebates awarded.

B. Rebate Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	5000	5000
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 12/7/05

BMP 07: Public Information Programs

Reporting Unit:	BMP Form Status:	Year:
Ventura County Waterworks Dist. #1	**100% Complete**	**2004**

A. Implementation

1. Does your agency maintain an active public information program to promote and educate customers about water conservation? yes

a. If YES, describe the program and how it's organized.

BMP 7 - Public Information/Education 1. Messages on bills regarding Ultra Low Flush Toilet (ULFT) rebate program and seasonal tiers. 2. Brochures regarding water saving tips, Xeriscape, etc. at customer service desk. 3. Gardens at the main entry to our customer service office and in the courtyard were planted with drought-resistant plants and designed to demonstrate the beauty of such plants. 4. "Water Awareness Month" activities including an annual "Water Awareness" poster contest. 5. Bill compares current usage to use during the same time period in the previous year. 6. Annual Water Quality Report.

2. Indicate which and how many of the following activities are included in your public information program.

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	no	
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	8
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	2
f. Special Events, Media Events	yes	1
g. Speaker's Bureau	no	
h. Program to coordinate with other government agencies, industry and public interest groups and media	yes	

B. Conservation Information Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	21000	17500
2. Actual Expenditures	24481	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 12/7/05

BMP 08: School Education Programs

Reporting Unit:	BMP Form Status:	Year:
Ventura County Waterworks Dist. #1	**100% Complete**	**2004**

A. Implementation

1.Has your agency implemented a school information program to promote water conservation? yes

2. Please provide information on your school programs (by grade level):

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
Grades K-3rd	yes	2	159	0
Grades 4th-6th	yes	4	306	0
Grades 7th-8th	no	0	0	0
High School	no	0	0	0

3. Did your Agency's materials meet state education framework requirements? yes

4. When did your Agency begin implementing this program? 1/1/1994

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	10000	10000
2. Actual Expenditures	9303	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 12/7/05

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:
Ventura County Waterworks Dist. #1

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

1. Has your agency identified and ranked COMMERCIAL customers according to use?	yes
2. Has your agency identified and ranked INDUSTRIAL customers according to use?	yes
3. Has your agency identified and ranked INSTITUTIONAL customers according to use?	yes

Option A: CII Water Use Survey and Customer Incentives Program

4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option?	yes

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered	0	0	0
b. Number of New Surveys Completed	0	0	0
c. Number of Site Follow-ups of Previous Surveys (within 1 yr)	0	0	0
d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)	0	0	0
CII Survey Components	**Commercial Accounts**	**Industrial Accounts**	**Institutional Accounts**
e. Site Visit	yes	yes	yes
f. Evaluation of all water-using apparatus and processes	yes	yes	yes
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	yes	yes	yes

Agency CII Customer Incentives	Budget ($/Year)	No. Awarded to Customers	Total $ Amount Awarded
h. Rebates	0	0	0
i. Loans	0	0	0
j. Grants	0	0	0
k. Others	0	0	0

Option B: CII Conservation Program Targets

5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this option?	no
6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings?	no
7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991.	
8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991.	

B. Conservation Program Expenditures for CII Accounts

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	10127	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

In the past, the District has particiapted in a Commercial, Industrial, and Institutional (CII) Water Audit Program with Metropolitan Water District and Calleguas Municipal Water District. At that time, the consultants doing the the surveys reviewed our database and determined which customers would benefit from the audits and which audits would most likely be cost effective and result in recommendations to facilitate substantial water savings. Audits were performed for those customers agreeing to participate in the program. Most of these customers have implemented the recommendations made by the consultants. Currently the District offers requests for review of water allocations, which are used to survey the water use and Best Mangement Practices for the customer. Water audits are also offered to our customers who exceed their allocations or request an audit to help determine more efficient water use and suggest methods of water conservation.

D. Comments

Reported as of 12/7/05

BMP 09a: CII ULFT Water Savings

Reporting Unit:
Ventura County Waterworks Dist. #1

BMP Form Status:
100% Complete

Year:
2004

1. Did your agency implement a CII ULFT replacement program in the reporting year? If No, please explain why on Line B. 10. — No

A. Targeting and Marketing

1. What basis does your agency use to target customers for participation in this program? Check all that apply.

a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

2. How does your agency advertise this program? Check all that apply. — Other print media

a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

Comment on bills.

B. Implementation

1. Does your agency keep and maintain customer participant information? (Read the Help information for a complete list of all the information for this BMP.)

2. Would your agency be willing to share this information if the CUWCC did a study to evaluate the program on behalf of your agency?

3. What is the total number of customer accounts participating in the program during the last year ?

CII Subsector	Number of Toilets Replaced				
4.	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount	Type Not Specified
a. Offices					
b. Retail / Wholesale					
c. Hotels					
d. Health					
e. Industrial					

f. Schools:
K to 12

g. Eating

h. Govern-
ment

i. Churches

j. Other

5. Program design.

6. Does your agency use outside services to implement this program?

a. If yes, check all that apply.

7. Participant tracking and follow-up.

8. Based on your program experience, please rank on a scale of 1 to 5, with 1 being the least frequent cause and 5 being the most frequent cause, the following reasons why customers refused to participate in the program.

a. Disruption to business

b. Inadequate payback

c. Inadequate ULFT performance

d. Lack of funding

e. American's with Disabilities Act

f. Permitting

g. Other. Please describe in B. 9.

9. Please describe general program acceptance/resistance by customers, obstacles to implementation, and other isues affecting program implementation or effectiveness.

10. Please provide a general assessment of the program for this reporting year. Did your program achieve its objectives? Were your targeting and marketing approaches effective? Were program costs in line with expectations and budgeting?

Although a ULFT rebate is available to CII customers, no marketing or tageting has been done at this time.

C. Conservation Program Expenditures for CII ULFT

1. CII ULFT Program: Annual Budget & Expenditure Data

	Budgeted	Actual Expenditure
a. Labor		
b. Materials		
c. Marketing & Advertising		
d. Administration & Overhead	5000	0

e. Outside Services		
f. Total	5000	0

2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution	
b. State agency contribution	
c. Federal agency contribution	
d. Other contribution	
e. Total	0

D. Comments

Reported as of 12/7/05

BMP 11: Conservation Pricing

Reporting Unit:	BMP Form Status:	Year:
Ventura County Waterworks Dist. #1	**100% Complete**	**2004**

A. Implementation

Rate Structure Data Volumetric Rates for Water Service by Customer Class

1. Residential	
a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	$4447564
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$835089
2. Commercial	
a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	$459581
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$75129
3. Industrial	
a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	$167539
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$45146
4. Institutional / Government	
a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	$571558
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$109957
5. Irrigation	
a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	$1384406

d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$122301
6. Other	
a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	$180474
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$46789

B. Conservation Pricing Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	600000	400000
2. Actual Expenditures	502855	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 12/7/05

BMP 12: Conservation Coordinator

Reporting Unit:	BMP Form Status:	Year:
Ventura County Waterworks Dist. #1	**100% Complete**	**2004**

A. Implementation

1. Does your Agency have a conservation coordinator?	yes
2. Is this a full-time position?	no
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ?	no
4. Partner agency's name:	Calleguas Municipal Water District and Metropolitan Water District
5. If your agency supplies the conservation coordinator:	
a. What percent is this conservation coordinator's position?	33%
b. Coordinator's Name	Anne Dana
c. Coordinator's Title	Administrative Officer/ Water Conservation Coordinator
d. Coordinator's Experience and Number of Years	Served as the District's Water Conservation Coordinator for 11 years
e. Date Coordinator's position was created (mm/dd/yyyy)	1/1/1994
6. Number of conservation staff, including Conservation Coordinator.	3

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	85000	90000
2. Actual Expenditures	87766	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?	no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 12/7/05

BMP 13: Water Waste Prohibition

Reporting Unit:	BMP Form Status:	Year:
Ventura County Waterworks Dist. #1	**100% Complete**	**2004**

A. Requirements for Documenting BMP Implementation

1. Is a water waste prohibition ordinance in effect in your service area? yes

a. If YES, describe the ordinance:

The ordinance states "Water Waste Prohibited: No person shall use or permit the use of District water for watering of turf, etc. in such a manner which allows water to run to waste; leaks or breaks in the distribution are ignored; operating ornamental fountains that do not recycle the water; washing of sidewalks, walkways, or driveways except as necessary for public safety; serve water in restaurants without being requested by the customer; watering or operating outdoor irrigation system between 9:00am-4:00pm, except as necessary to test the system; running of water or spraying of water onto other properties.

2. Is a copy of the most current ordinance(s) on file with CUWCC? yes

a. List local jurisdictions in your service area in the first text box and water waste ordinance citations in each jurisdiction in the second text box:

City of Moorpark	none this period

B. Implementation

1. Indicate which of the water uses listed below are prohibited by your agency or service area.

a. Gutter flooding yes

b. Single-pass cooling systems for new connections no

c. Non-recirculating systems in all new conveyor or car wash systems yes

d. Non-recirculating systems in all new commercial laundry systems no

e. Non-recirculating systems in all new decorative fountains yes

f. Other, please name
See A.1.a. yes

2. Describe measures that prohibit water uses listed above:

Ventura County Waterworks District #1 Rules and Regulations as app roved by the County of Ventura Board of Supervisors.

Water Softeners:

3. Indicate which of the following measures your agency has supported in developing state law:

a. Allow the sale of more efficient, demand-initiated regenerating DIR models. yes

b. Develop minimum appliance efficiency standards that:

i.) Increase the regeneration efficiency standard to at least 3,350 grains of hardness removed per pound of common salt used. yes

ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced. yes

c. Allow local agencies, including municipalities and special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply. yes

4. Does your agency include water softener checks in home water audit programs? yes

5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? no

C. Water Waste Prohibition Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	1000	1000
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

Reported as of 12/7/05

BMP 14: Residential ULFT Replacement Programs

Reporting Unit: **Ventura County Waterworks Dist. #1**

BMP Form Status: **100% Complete**

Year: **2004**

A. Implementation

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	yes	yes

Number of Toilets Replaced by Agency Program During Report Year

Replacement Method	SF Accounts	MF Units
2. Rebate	13	0
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	0	0
Total	**13**	**0**

6. Describe your agency's ULFT program for single-family residences.

We offer a $60 rebate for each new ULFT installed, up to a maximum of two toilets per household. Rebate is given as a credit to the customer's account after the customer provides proof that the ULFT is installed and the old toilet has been disposed of properly.

7. Describe your agency's ULFT program for multi-family residences.

We offer a $60 rebate for each new ULFT installed, up to a maximum of two toilets per unit. Rebate is given as a credit to the customer's account after the customer provides proof that the ULFT is installed and the old toilet has been disposed of properly.

8. Is a toilet retrofit on resale ordinance in effect for your service area? no

9. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

B. Residential ULFT Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	6000	6000
2. Actual Expenditures	937	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 12/7/05

Appendix J

Water Shortage Contingency Plan

VENTURA COUNTY
WATERWORKS DISTRICT NO. 1

WATER SHORTAGE CONTINGENCY PLAN

JANUARY , 1992

VENTURA COUNTY WATERWORKS DISTRICT NO. 1

WATER SHORTAGE CONTINGENCY PLAN

JANUARY, 1992

Prepared by:

Ventura County Waterworks District No. 1
7150 Walnut Canyon Road
Moorpark, CA 93021-0250

Telephone No. (805) 584-4829
Fax No. (805) 529-7542

Contact Person: R. R. Pakala, Manager

VENTURA COUNTY WATERWORKS DISTRICT NO. 1
WATER SHORTAGE CONTINGENCY PLAN

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LIST OF APPENDICES

I. INTRODUCTION

The Water Shortage Contingency Plan has been prepared in compliance with Assembly Bill No. 11 relating to the drought contingency planning in California. It will supplement the Ventura County Waterworks District #1 Urban Water Management Plan that was adopted in April, 1991 and submitted to the California Department of Water Resources (DWR).

The legislation calls for nine specific elements that must be addressed. These include:

1. Past, present and future water use.
2. An estimate of minimum supplies available at the end of 12, 24 and 36 months.
3. Stages of Action to meet supply reductions of up to 50%.
4. Mandatory provisions to reduce water use.
5. Consumption limits in the most restrictive stages.
6. Penalties or charges for excessive use.
7. An analysis of the impact that these measures would have on the revenues and the measures that the District would take to overcome revenue shortages.
8. A draft ordinance or resolution to carry-out the water shortage contingency plan.
9. A mechanism for determining actual reductions in water use.

Narrative Description of District and Service Area

Ventura County Waterworks District No. 1 (District) was originally organized by the County of Ventura in 1921. It is located in the eastern portion of Ventura County, approximately five miles from the cities of Simi Valley to the east and Thousand Oaks to the south. Figure 1 shows the District's regional location and Figure 2 shows the boundaries of the District. The District provides water service to the City of Moorpark and unincorporated areas surrounding it. The District derives its water supply from underground and imported sources. The underground water supply comes from six wells which provide domestic and agricultural water. Imported water is delivered by the Calleguas Municipal Water District (CMWD), a member of the Metropolitan Water District of Southern California. The District encapsulates 18,550 acres, of which 43% is within the city limits.

The service area of the District has changed dramatically from a rural community to a developed area due to rapid growth and development in the late 1970's through the 1980's.

The population has nearly quadrupled since 1977. The City of Moorpark, which was incorporated in July, 1983, currently has a population of 26,118 (as of January 1, 1990). According to the District's Master Plan the population will increase at an annual rate of 3.6% to 35, 568 and 45,018 in the year 2000 and 2010, respectively.

FIGURE 1

VICINITY MAP

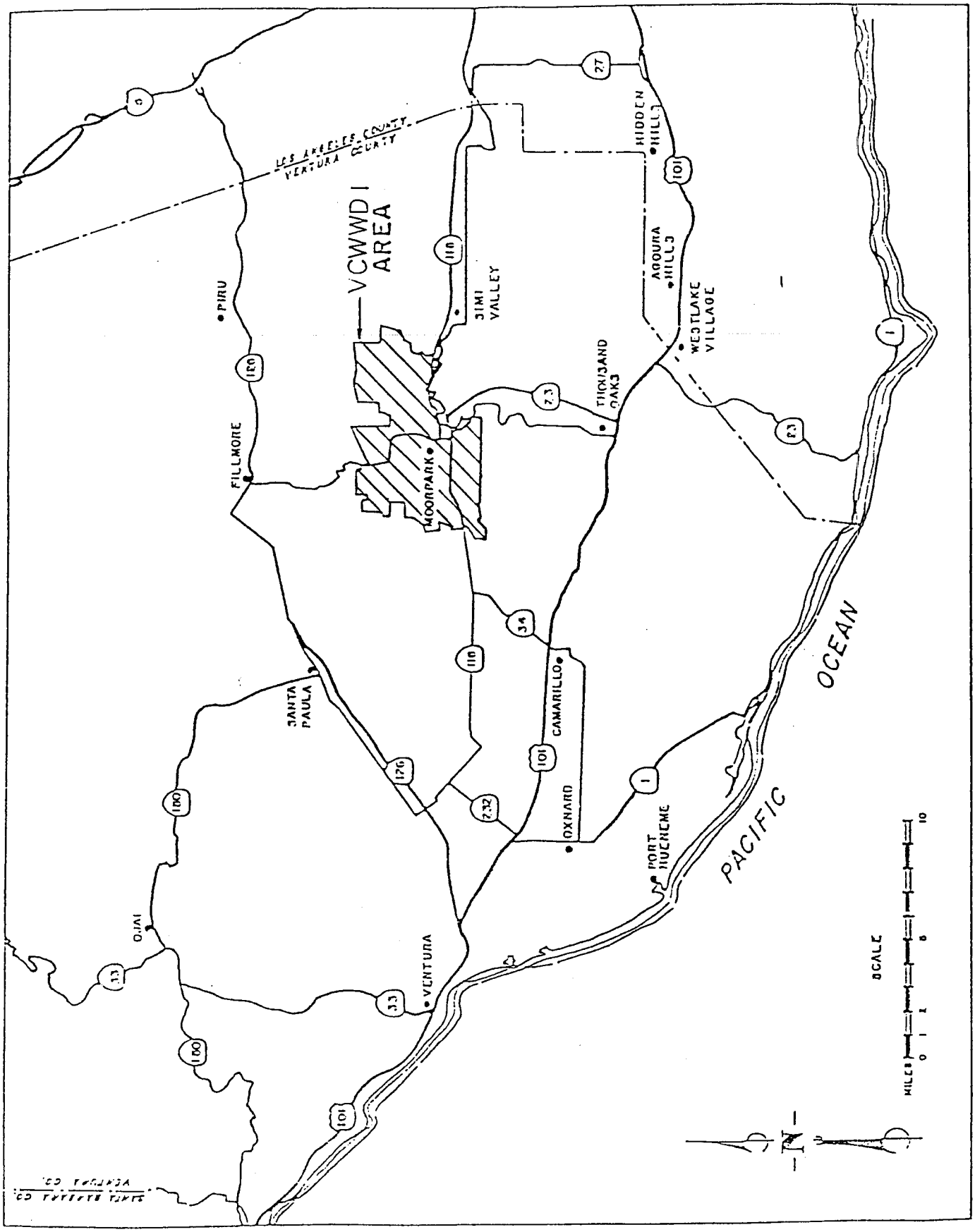
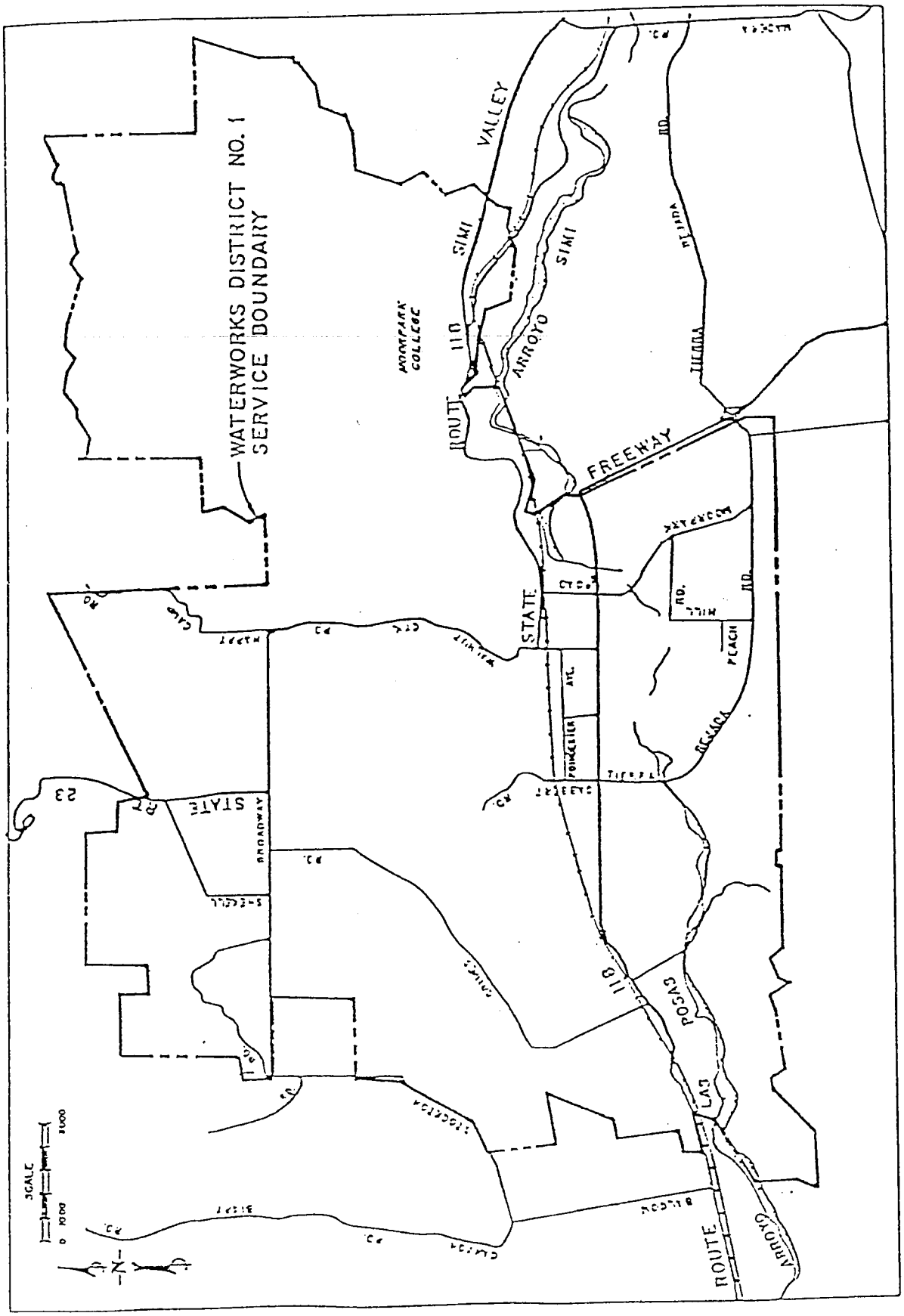


FIGURE 2

DISTRICT BOUNDARIES



II. PRESENT AND FUTURE WATER USE

As shown in Table 1, total water demands from all connections within Ventura County Waterworks District No. 1 amounted to 13,100 acre-feet (AF) during year 1990, with 7,770 AF used for municipal and industrial purposes (M&I) and 5,330 AF used for agricultural purposes. Table 1 also projects water demands for the years 1991, 1992, 1993, and 1994 assuming normal increase in (M&I) connections with normal consumption rates, but with no increase in agricultural connections.

TABLE 1
CUSTOMER TYPES, NORMAL DEMAND AND DEMAND INCLUDING GROWTH

CUSTOMER TYPE	1990 (Actual)	1991 (Projected)	1992 (Projected)	1993 (Projected)	1994 (Projected)
RESIDENTIAL					
Connections	7120	7183	7442	7709	7987
Use (AF)	5847	5898	6110	6330	6558
COMMERCIAL					
Connections	252	262	272	282	292
Use (AF)	866	900	935	969	1003
INDUSTRIAL					
Connections	87	97	107	117	127
Use (AF)	470	524	578	632	686
GOVERNMENTAL					
Connections	47	47	47	47	47
Use (AF)	587	587	587	587	587
AGRICULTURAL					
Connections	172	172	172	172	172
Use (AF)	5330	5330	5330	5330	5330
TOTAL					
Connections	7678	7761	8040	8327	8625
User (AF)	13100	13239	13540	13848	14164

The 1990 composition of the District users as shown in Table 2 indicates that residential and agricultural demands account for 45% and 40% of the total water consumption respectively. The other users account for the remaining 15%.

TABLE 2
RANKING OF DEMAND PERCENTAGE BASED ON CUSTOMER TYPE
(1990)

DEMAND RANKING	CUSTOMER TYPE	PERCENTAGE OF TOTAL DEMAND
1	Residential	45%
2	Agricultural	40%
3	Commercial	7%
4	Governmental	5%
5	Industrial	3%

III PAST , PRESENT AND FUTURE WATER SUPPLIES

General

Ventura County Waterworks District No. 1 derives water from both underground and imported sources. The underground supply comes from six wells. Imported water is delivered to the District by the Calleguas Municipal Water District (CMWD) through nine metered turnouts. In recent years, around 75% of the total water consumed by the District came from the CMWD.

Groundwater Sources

The District's wells serve both domestic and agricultural demands. Each well is operated on '"as needed" basis'". Total water production capability of the wells connected to the system is 4,113 GPM (6640 AFY) and will be increased to 5313 GPM (8577 AFY) by the end of 1992. Total well production varies depending on the system's demand and depth of groundwater.

The wells are within a groundwater basin which has been historically overdrafted. Due to this overdraft, the Fox Canyon Groundwater Management Agency (GMA) has adopted its Groundwater Extraction Reduction Ordinance No. 5, with the intent of eliminating overdraft caused by excess extraction from the aquifer system and bringing the groundwater basins to safe yield by the year 2010. Ordinance No. 5 was adopted on August 24, 1990, and requires that the District's extraction be reduced gradually to 75% of the "Historical Extraction" rate by the year 2010. Historical extraction is the average annual groundwater extraction based on the five calendar years from 1985 through 1989.

Based on the historical extractions for the years 1985 through 1989, the District's groundwater extraction allocation was set at 2730 AF per year. Unless adjusted by other factors, the above allocation will be reduced to 2594 AF per year for the years 1992 through 1994, 2320 AF in the year 2000, and to 2047 AF for the years 2010 and after.

Adjustments to the set allocations can be accomplished by various methods such as conservation credits and storage credits that are available to, and will be made use of, by the District. As a case in point, the District will receive a conservation credit of 840 AF by extracting less groundwater in 1991 than the extraction allocation. Such credits are carried forward from year to year.

In case of a water shortage emergency, and for short term needs, the District may exceed the allocation extraction limits set by GMA Ordinance No. 5 to meet the demands that are considered the absolute minimum to maintain agricultural assets of the District's customers. For the purpose of this report, the available supply from all groundwater sources when reduced by 50% will amount to 4288 AF per year.

Imported Water

Imported water is supplied to the District by CMWD from the Metropolitan Water District of Southern California (MWD). Most of the time this water is delivered through the Jensen Filtration Plant, owned and operated by MWD.

CMWD delivers water to meet the needs of the District as long as it is available to them. The only limiting factors are the capacity of the CMWD line and the supply available to CMWD. Any reduction in existing supply would be passed on by CMWD to the District on a prorata basis. Although CMWD transmission facilities (turnouts) are capable of transmitting 44.64 MGD to the District, MWD has mandated water supply reductions to its water customers through its November, 1990 implementation of an "Incremental Interruption and Conservation Plan" (IICP). The base amount for these reductions is the District's water purchases from July 1989 through June 1990. These quantities and the target deliveries for the next 12, 24 and 36 months are shown in Table 3.

TABLE 3

CALLEGUAS MUNICIPAL WATER DISTRICT
INCREMENTAL INTERRUPTION AND CONSERVATION PLAN (IICP)
MONTHLY TARGET QUANTITIES IN ACRE-FEET

BASE YEAR CMWD DELIVERIES				CY 1992, 1993, 1994 MONTHLY TARGETS UNDER * STAGE *				
MONTH	M & I	AG	TOTAL	II	III	IV	V	VI
Jan-90	325.6	140.2	465.8	421.5	391.2	360.9	330.6	241.9
Feb-90	300.3	88.7	389.0	356.2	332.4	308.5	284.6	219.1
Mar-90	405.1	212.9	618.0	555.2	513.6	472.1	430.5	304.9
Apr-90	427.7	252.0	679.7	607.9	561.3	514.7	468.2	324.6
May-90	532.9	338.7	871.6	777.2	716.7	656.2	595.7	406.9
Jun-90	676.5	284.3	960.8	870.1	807.9	745.6	683.4	502.0
Jul-89	636.8	472.5	1,109.3	983.0	903.9	824.8	745.7	493.0
Aug-89	616.0	444.7	1,060.7	941.0	865.7	790.4	715.2	475.7
Sep-89	525.0	447.2	1,002.2	880.5	806.5	732.6	658.6	415.2
Oct-89	435.0	345.5	780.5	689.7	633.4	577.1	520.8	339.1
Nov-89	618.3	343.8	962.1	862.4	797.1	731.8	666.5	467.2
Dec-89	390.6	380.8	771.4	675.7	618.1	560.5	502.9	311.5
TOTAL	5,889.8	3,781.3	9,671.1	8,620.4	7,947.8	7,275.2	6,602.7	4,501.1

Target deliveries may be revised to reflect growth based on a factor which is determined by the increase in the number of service connections over those of the base year. The supply allocations available at the end of 12, 24, and 36 months for all stages of the IICP are shown on Table 4.

TABLE 4
CALLEGUAS MUNICIPAL WATER DISTRICT
INCREMENTAL INTERRUPTION AND CONSERVATION PLAN (IICP)
ANNUAL AVAILABLE QUANTITY IN ACRE-FEET

CALENDAR YEAR	BASE YEAR	REDUCTIONS BASED ON ICCP STAGES				
		STAGE II	STAGE III	STAGE IV	STAGE V	STAGE VI*
1990**	9,671**	8,620**	7,948**	7,275**	6,603**	4,501**
1992	10,367	8,910	8,215	7,520	6,824	4,652
1993	10,715	9,113	8,402	7,691	6,980	4,758
1994	11,073	9,321	8,593	7,866	7,139	4,867

*Stage VI constitutes "worst case" situation
**Allocation before growth adjustment

Table 5 presents the total water supply available at the end of 12, 24, and 36 months taking into consideration the various IICP stages for the imported water, and a 50% reduction in the groundwater supply.

Table 6 compares the total supplies available with the normal demand at zero conservation level. Water consumption figures indicate that at the IICP Stage VI, the 1994 demands will exceed supplies by 55% unless conservation measures are implemented.

TABLE 5
AVAILABLE WATER SUPPLY

CALENDAR YEAR	GROUNDWATER PRODUCTION (AF)	IMPORTED WATER (AF)	TOTAL SUPPLY (AF)
Stage I			
1992	4,288	10,367	14,655
1993	4,288	10,715	15,003
1994	4,288	11,073	15,361
Stage II			
1992	4,288	8,910	13,198
1993	4,288	9,113	13,401
1994	4,288	9,321	13,609
Stage III			
1992	4,288	8,215	12,503
1993	4,288	8,402	12,690
1994	4,288	8,593	12,881
Stage IV			
1992	4,288	7,520	11,808
1993	4,288	7,691	11,979
1994	4,288	7,866	12,154
Stage V			
1992	4,288	6,824	11,112
1993	4,288	6,980	11,268
1994	4,288	7,139	11,427
Stage VI			
1992	4,288	4,652	8,940
1993	4,288	4,758	9,046
1994	4,288	4,867	9,155

TABLE 6
TOTAL SUPPLY* VS NORMAL DEMAND**

CALENDAR YEAR	TOTAL SUPPLY AF	NORMAL DEMAND AF	SURPLUS/ SHORTAGE AF	SURPLUS/ SHORTAGE %
Stage I				
1992	14,655	13,540	1,115	8
1993	15,003	13,848	1,115	8
1994	15,361	14,164	1,197	8
Stage II				
1992	13,198	13,540	-342	<3>
1993	13,401	13,848	-447	<3>
1994	13,609	14,164	-555	<4>
Stage III				
1992	12,502	13,540	-1,038	<8>
1993	12,690	13,848	-1,158	<9>
1994	12,881	14,164	-1,283	<10>
Stage IV				
1992	11,808	13,540	-1,732	<15>
1993	11,979	13,848	-1,869	<16>
1994	12,154	14,164	-2,010	<17>
Stage V				
1992	11,112	13,540	-2,428	<22>
1993	11,268	13,848	-2,580	<23>
1994	11,427	14,164	-2,737	<24>
Stage VI				
1992	8,940	13,540	-4,600	<51>
1993	9,046	13,848	-4,802	<53>
1994	9,155	14,164	-5,009	<55>

* Supply adjusted to IICP

** Normal demand at zero conservation

Potential Water Supply

The District is proposing to install a new well of 1200 GPM (1937 AFY) capacity that will be operational in 1992. This well will provide redundancy in the system to allow the District to participate in the Groundwater Injection Program in cooperation with CMWD.

The District is also preparing plans for a 1.5 million gallon per day tertiary treatment facility at the Moorpark Wastewater Treatment Plant. This project will produce approximately 1,680 AF of reclaimed water for irrigation and agricultural use by the year 1994.

IV. MANAGEMENT OF WATER SHORTAGES

Water Management Programs

The District's Urban Water Management Plan includes water management programs to be implemented in the next twenty years. These programs deal with the following:

- *Landscape Program for all new residential construction*
- *ULF Toilet Ordinance for new residences*
- *ULF Toilet Replacement Program in existing residence*
- *Increasing Block Rates Program*
- *Minimal Kit Delivery Program*
- *Public Information Program*
- *Wastewater Reclamation Program*

These programs are discussed in detail in the Urban Management Plan.

Drought Response Programs

In response to the current drought and water supply situation within the County and the State, the District adopted in November, 1990 and March, 1991, water rate adjustments based on an increasing block rate structure to encourage water conservation and efficient use of water. In April, 1991, the District implemented its own Incremental Interruption Plan (IIP) shown in Appendix I. The District's (IIP) parallels the CMWD Incremental Interruption and Conservation (IICP) Plan, with each level of the District's IIP corresponding to one or more of the six stages within the CMWD IICP, (see Table 7). Customers may appeal their water allocations under the IIP. Guidelines shown in Appendix II are used by the District in evaluating the appeals.

For most of 1991 the District operated under Level 2 and the District's supplier of imported water under IICP -- Stage V, with a target supply equivalent to 68% of that for the base year of 1990. Table 8 lists the month to month water consumption for 1990 and 1991. As a result of the above conservation measures the actual overall water consumption in 1991 decreased by about 26% as compared to 1990 consumption.

TABLE 7

DISTRICT IIP LEVEL NO.	*CORRESPONDING CMWD IICP STAGE NO.*
1	*I , II and III*
2	*IV and V*
3	*VI*

TABLE 8
ACTUAL WATER CONSUMPTION FOR MUNICIPAL, INDUSTRIAL AND AGRICULTURAL USE

MONTH	1990 WATER USAGE			1991 WATER USAGE			% OF CHANGE		
	TOTAL (AF)	AG (AF)	M&I (AF)	TOTAL (AF)	AG (AF)	M & I (AF)	TOTAL	AG	M & I
Jan	613.9	202.8	411.1	598.5	192.9	405.6	-2.51	-4.8	-1.3
Feb	556.8	167.8	389	740.1	346.3	393.8	32.92	106.4	1.2
Mar	778	260.9	517.1	216.2	12.5	203.7	-65.02	-95	-60.6
Apr	945.8	373.7	572.1	549.6	141.5	408.1	-41.89	-62.1	-28.7
May	1187.5	537	650.5	973.7	338.8	634.9	-18	-36.9	-2.4
Jun	1278	464.7	813.3	886.8	255.7	631.1	-30.6	-45	-22.4
Jul	1473	676.1	796.9	1047.6	343.1	704.5	-28.8	-49.3	-11.6
Aug	1380.1	545.1	835	1081.2	392.9	688.3	-21.7	-27.9	-17.6
Sep	1389.8	653.1	736.7	990.3	354.9	635.4	-28.7	-45.7	-13.8
Oct	1303.4	506.9	796.5	992.8	388.6	604.2	-23.8	-26.3	-44.3
Nov	1156.1	466.6	689.5	877.6	323	554	-24.1	-30.8	-19.6
Dec	1037.4	475.9	561.5	711.1	293.8	315.1	-31.5	-38.3	-43.9
Total	13099.8	5330.6	7769.2	9665.5	3384	6281.5	-26.2	-36.5	-19.1

Stages of Action

Currently, the most stringent consumption reduction level in the District's IIP is Level 3. This level is intended to reduce the 1990 municipal and industrial consumption by 25% and the agricultural consumption by 60%.

In order to meet the worst case water supply scenario, in compliance with AB 11, the District will operate under IIP Level 3.

Table 9 presents the projected water demands for the next 12, 24 and 36 months under IIP Level 3 when available water supplies are reduced by 50%.

TABLE 9
IIP LEVEL 3 WATER DEMANDS VS. SUPPLY AT 50% REDUCTION

YEAR	M&I DEMAND (AF)	AG DEMAND (AF)	TOTAL DEMAND (AF)	AVAILABLE SUPPLY (AF)	SURPLUS/ <SHORTAGE> (AF)
1992	6,158	2,132	8,290	8,940	650
1993	6,388	2,132	8,520	9,046	526
1994	6,625	2,132	8,520	9,155	398

Mandatory Prohibitions on Water Use

In June, 1990 the District adopted "Water Conservation Rules and Regulations", (see Appendix III.) In the event of a "Water Shortage Emergency" the District will operate under the IIP Level 3 and will enforce a further set of mandatory prohibitions on the use of potable water as follows:

1. *Use of potable water to clean, fill or maintain decorative fountains, lakes or ponds.*
2. *Use of potable water for construction, compaction, dust control, street or parking lot sweeping.*
3. *Use of potable water to fill new swimming pools. Existing swimming pools shall be covered when not in use.*
4. *Use of potable water for sewer system maintenance or fire protection training without prior approval of District.*
5. *Use of potable water for washing vehicles or other types of mobile equipment except at car wash facilities with recycling water systems.*

Water Use Monitoring Procedures

In normal water supply conditions well production and imported water supply figures are recorded daily. Totals are reported monthly to the Water District Manager. Meter readings and customer billings are done on bimonthly basis.

During a Water Shortage Emergency the total water supply figures will be reported daily to the District Manager, and will be compared to the target figures set by IIP Level 3.

Meter reading will be taken monthly and water consumption for each customer will be monitored and compared to the target figures set by IIP Level 3.

Implementation of the Plan

On April 30, 1991, the Board of Supervisors, County of Ventura, acting as Board of Directors for the District, adopted the District's Incremental Interruption Plan. Level 3 of this plan will meet the requirements of the Water Shortage Contingency Plan. Level 3 will be triggered effective from the date that CMWD implements Stage VI of the IICP.

V. ANALYSIS OF REVENUE AND EXPENDITURE IMPACTS

The District's annual revenues and expenditures from water sales for normal, Level 2 and Level 3 operation are presented in Table 10.

All surplus revenues are deposited in the "Rate Stabilization Fund". Surcharges paid by the District for water consumption above the allocations are not reflected in Table 10 as they will be offset by increased water charges to customers in accordance with the tiered rates of the IIP.

Based on the analysis shown in Table 10, the District's present rates, which were last increased on July 30, 1991, are adequate for the District's operation during a water shortage.

TABLE 10
REVENUES AND EXPENDITURES

OPERATING REVENUES	NORMAL	LEVEL 2 (26%)	LEVEL 3 (50%)
M & I	$3,235,322	$2,616,076	$1,564,438
Agricultural	1,776,449	1,127,650	710,446
Total Water Sales	5,011,771	3,743,726	3,274,884
Meter Charges	625,000	625,000	625,000
Total Revenue	5,636,771	4,368,726	3,899,884
% Reduction	0%	0%	0%
OPERATING EXPENSES	NORMAL	LEVEL 2 (26%)	LEVEL 3 (50%)
Water Purchase	$3,362,084	$2,184,226	$1,614,244
Pumping from Well	481,508	481,508	531,148
Water Treatment	122,245	122,245	122,245
Transmission & Dist.	718,840	718,840	718,840
Customer Account	250,000	250,000	250,000
General & Admin.	350,700	350,700	350,700
Depreciation	281,100	281,100	281,100
Total Operating Expenses	$5,566,477	$4,388,619	$3,868,277
Surplus or Deficiency	70,294	(19,893)	31,607

APPENDIX I

INCREMENTAL INTERRUPTION PLAN
VENTURA COUNTY WATERWORKS DISTRICT NO. 1

The Incremental Interruption Plan (IIP) establishes a monthly/bimonthly target quantity of water and rates for Municipal and Industrial customers and Agricultural customers within Ventura County Waterworks District No. 1 (District). The IIP is based on the Metropolitan Water District of Southern California (MWD) Incremental Interruption and Conservation Plan (IICP). Each Level of the District's IIP corresponds to one or more of the six stages within MWD's IICP. The intent of the IIP is to allow flexibility and faster implementation of reductions or increases necessitated by adoption of any particular state of MWD's IICP. The relationship between the District's IIP and MWD's IICP is illustrated in the following table.

DISTRICT IIP LEVEL NO.	CORRESPONDING MWD IICP STAGE NO.
1	I, II and III
2	IV and V
3	VI

VENTURA COUNTY WATERWORKS DISTRICT NO. 1

INCREMENTAL INTERRUPTION LEVEL NO. 1
(RULE NO. 2-A-2)

(i) TIERED ALLOCATIONS (Bimonthly Consumption)

Billing Adjustment Number	Meter Size	Tier I (hcf)	Tier II (hcf)	Tier III (hcf)
1	3/4"	0-34	35-42	>42
2	--	0-51	52-63	>63
3	1"	0-68	69-84	>84
4	--	0-85	86-105	>105
5	--	0-102	103-126	>126
6	--	0-119	120-147	>147
7	1 1/2"	0-136	137-168	>168
14	2"	0-240	241-292	>292
29	3"	0-512	513-628	>628
59	4"	0-1,026	1,027-1,254	>1,254
119	6"	0-2,052	2,053-2,508	>2,508

Tiers are based on 10% water usage reduction. Tier I is 90% and Tier III is 110% of average usage of 3/4" meter customers.

(ii) TIERED RATES:

Tier I - Base Rate
Tier II - 2 X Base Rate
Tier III - 3 X Base Rate

(iii) INDUSTRIAL, COMMERCIAL AND OTHER ALLOCATIONS:

At the option of the District, where the tiered allocations are not applicable, a ten percent (10%) reduction compared to the same billing period in 1990 shall apply.

(iv) INDUSTRIAL, COMMERCIAL AND OTHER RATES:

(a) Base rate (either domestic or surplus water rate) shall be applicable for all water used within the percentage reduction goal, as stated in (iii) above.

(b) Base rate (either domestic or surplus water rate) plus MWD disincentive charge in dollars per hcf shall be applicable for all water used above and beyond the percentage reduction goal.

(v) AGRICULTURAL ALLOCATIONS:

(a) A ten percent (10%) reduction compared to the same billing period in 1990 for customers determined to be using water at a minimum 80% efficiency. The Fox Canyon

Groundwater Management Agency Ordinance No. 5 efficiency formula shall be used to determine efficiency. The crop factors and evapotranspiration shall be as determined by the District. The efficiency analysis shall be performed by the customer at their expense and submitted to the District for review and approval on an annual basis or more frequently if required by the District.

(b) For agricultural customers who can show the District that their 1990 usage was much less than the water required at a minimum 80% efficiency determined as set forth in (a) above, an appropriate quantity of water may be allocated at the option of the District. The 10% reduction shall be applied to the allocated quantity of water.

(c) A twenty percent (20%) reduction for all other agricultural customers.

(vi) AGRICULTURAL RATES:

(a) Base Rate shall be applicable for all water used within the percentage reduction goal.

(b) Base Rate plus the disincentive charge from MWD in dollars per hcf for all water used above and beyond the percentage reduction goal.

INCREMENTAL INTERRUPTION LEVEL NO. 2
(RULE NO. 2-A-2)

(i) TIERED ALLOCATIONS (Bimonthly Consumption)

Billing Adjustment Number	Meter Size	Tier I (hcf)	Tier II (hcf)	Tier III (hcf)
1	3/4"	0-32	33-44	>44
2	--	0-48	49-66	>66
3	1"	0-64	65-88	>88
4	--	0-80	81-110	>110
5	--	0-96	97-132	>132
6	--	0-112	113-154	>154
7	1 1/2"	0-128	129-176	>176
14	2"	0-224	225-308	>308
29	3"	0-480	481-660	>660
59	4"	0-960	961-1,320	>1,320
119	6"	0-1,920	1,921-2,640	>2,640

Tiers are based on 15% water usage reduction. Tier I is 85% and Tier III is 115% of average usage of 3/4" meter customers.

(ii) TIERED RATES:

Tier I - Base Rate
Tier II - 2 X Base Rate
Tier III - 3 X Base Rate

(iii) INDUSTRIAL, COMMERCIAL AND OTHER ALLOCATIONS:

At the option of the District, where the tiered allocations are not applicable, a twenty percent (20%) reduction compared to the same billing period in 1990 shall apply.

(iv) INDUSTRIAL, COMMERCIAL AND OTHER RATES:

(a) Base rate (either domestic or surplus water rate) shall be applicable for all water used within the percentage reduction goal, as stated in (iii) above.

(b) Base rate (either domestic or surplus water rate) plus MWD disincentive charge in dollars per hcf shall be applicable for all water used above and beyond the percentage reduction goal.

(v) AGRICULTURAL ALLOCATIONS:

(a) A twenty percent (20%) reduction compared to the same billing period in 1990 for customers determined to be

using water at a minimum 80% efficiency. The Fox Canyon Groundwater Management Agency Ordinance No. 5 efficiency formula shall be used to determine efficiency. The crop factors and evapotranspiration shall be as determined by the District. The efficiency analysis shall be performed by the customers at their expense and submitted to the District for review and approval on an annual basis or more frequently if required by the District.

(b) Agricultural customers who show the District that their 1990 usage was much less than the water required at a minimum 80% efficiency determined as set forth in (a) above, an appropriate quantity of water may be allocated at the option of the District. The 20% reduction shall be applied to the allocated quantity of water.

(c) A forty percent (40%) reduction for all other agricultural customers.

(vi) AGRICULTURAL RATES:

(a) Base Rate shall be applicable for all water used within the percentage reduction goal.

(b) Base Rate plus the disincentive charge from MWD in dollars per hcf shall be applicable for all water used above and beyond the percentage reduction goal.

INCREMENTAL INTERRUPTION LEVEL NO. 3
(RULE NO. 2-A-2)

(i) TIERED ALLOCATIONS (Bimonthly Consumption)

Billing Adjustment Number	Meter Size	Tier I (hcf)	Tier II (hcf)	Tier III (hcf)
1	3/4"	0-28	29-44	>44
2	--	0-42	43-66	>66
3	1"	0-56	57-88	>88
4	--	0-70	71-110	>110
5	--	0-84	85-132	>132
6	--	0-98	99-154	>154
7	1 1/2"	0-112	113-176	>176
14	2"	0-196	196-308	>308
29	3"	0-420	421-660	>660
59	4"	0-840	841-1,320	>1,320
119	6"	0-1,680	1,681-2,640	>2,640

Tiers are based on 25% water usage reduction. Tier I is 75% and Tier III is 115% of average usage of 3/4" meter customers.

(ii) TIERED RATES:

Tier I - Base Rate
Tier II - 2 X Base Rate
Tier III - 3 X Base Rate

(iii) INDUSTRIAL, COMMERCIAL AND OTHER ALLOCATIONS:

At the option of the District, where the tiered allocations are not applicable, a thirty percent (30%) reduction compared to the same billing period in 1990 shall apply.

(iv) INDUSTRIAL, COMMERCIAL AND OTHER RATES:

(a) Base rate (either domestic or surplus water rate) shall be applicable for all water used within the percentage reduction goal, as stated in (iii) above.

(b) Base rate (either domestic or surplus water rate) plus MWD disincentive charge in dollars per hcf shall be applicable for all water used above and beyond the percentage reduction goal.

(v) AGRICULTURAL ALLOCATION:

(a) A forty percent (40%) reduction compared to the same billing period in 1990 for customers determined to be

using water at a minimum 80% efficiency. The Fox Canyon Groundwater Management Agency Ordinance No. 5 efficiency formula shall be used to determine efficiency. The crop factors and evapotranspiration shall be as determined by the District. The efficiency analysis shall be performed by the customers at their expense and submitted to the District for review and approval on an annual basis or more frequently if required by the District.

(b) For agricultural customers who can show the District that their 1990 usage was much less than the water required at a minimum 80% efficiency determined as set forth in (a) above, an appropriate quantity of water may be allocated at the option of the District. The 40% reduction shall be applicable to the allocated quantity of water.

(c) A sixty percent (60%) reduction for all other customers.

(vi) AGRICULTURAL AND PERCENTAGE REDUCTION ALLOCATION:

(a) Base Rate shall be applicable for all water used within the percentage reduction goal.

(b) Base Rate plus the disincentive charge from MWD in dollars per hcf shall be applicable for all water used above and beyond the percentage reduction goal.

APPENDIX II

VENTURA COUNTY WATERWORKS DISTRICTS
PARAMETERS IN ESTIMATING WATER NEEDS

(Waterworks District Use Only)

The purpose of having a tiered water rate structure is to provide an economic incentive to each customer to reduce water consumption by becoming more efficient in its use.

The levels of water consumption permitted under each tier is established to effectuate the mandated water reductions established by the Metropolitan Water District.

A number of billing adjustments are included, irrespective of meter size, to give the Districts ability to allocate more or less water to each customer based on historic use, lot size, family size, livestock, landscaping and efficiency.

When a customer requests that their water rate structure be evaluated, the District will review pertinent information supplied by the customer, including the results of a water audit, if necessary, and determine whether or not an adjustment to the water allocation is warranted.

The District will consider the following water allocations in evaluating the customers' water needs:

1. The allocation is based on the meter size and the Incremental Interruption Plan "level" in effect.

2. A base allocation of 260 gpd (4 x 65) for a single family home with 4 people.

3. A base allocation of 200 gpd for condominium units or mobile homes.

4. An additional 50 gpd for each additional person per household above four.

5. An additional 10 gpd for mature fruit trees.

6. An additional 20 gpd for each horse.

7. An additional 2.7 hcf per 1000 sq. ft. of landscaping per two-month billing cycle.

DETERMINATION OF LANDSCAPING WATER ALLOCATIONS

(Waterworks District Use Only)

Landscaping water allocations may be increased, at the option of the District, based on the estimates of the amount of water required to maintain landscaping with low water requiring conditions. Landscape water budget calculations shall be performed based on the following formula:

$$MAWB = (ET>) \ (PA) \ (AP) \ (0.62)$$

(i) MAWB - Maximum Allowable Water Budget (gallons per year)

(ii) ET. - Reference Evapotranspiration (inches per year) = 45.61". This is based on 8.5" of effective rainfall for water year 1990.

(iii) PA - Project Area (square feet)

(iv) AP - Allowable Percentage
Allowable percentage is based on the following formula:

$$AP = \frac{\text{Average KL}}{\text{Average IE}}$$

Average KL is the average landscape. Coefficient, a functional equivalent of a crop coefficient for landscape. When multiplied times the evapotranspiration, it estimate the amount of water required to maintain landscape plants at low water requiring conditions. For purposes of this appeal process, the District shall use KL equal to 0.30.

Average IE is the average irrigation efficiency, derived from estimates of equipment, design efficiency, and management efficiency. For purposes of this appeal process, the District shall use IE equal to 0.70.

$$IE = \frac{0.30}{0.70} = 0.429$$

(v) 0.62 - Conversion factor (to gallons per square feet)

$$MAWB = (45.61" \ (1000 \ SF) \ (0.429) \ (0.62)$$

$$= 12{,}131 \text{ gallons / year / 1000 sq. ft.}$$

$$= 16.2 \text{ hcf / 1000 sq. ft. / year}$$

$$= 2.7 \text{ hcf / 1000 SF / 2 month billing cycle}$$

For any given District, the basic allocation to the customer will be adjusted based on water use inside the house. For this purpose, (4 x 65) = 260 gallons per day shall be used as the allotment for internal household use. Any additional water allocated above and beyond 260 gpd may be considered additional water needs including landscaping.

APPENDIX III

WATER CONSERVATION RULES AND REGULATIONS

SECTION L. WATER CONSERVATION

RULE

1-L-1 WATER SAVING DEVICES: All new customers shall install and use the following water efficient plumbing fixtures:

(i) Ultra low volume toilets (1.6 gallons per flush or less).

(ii) Low flow shower heads (2.0 gallons per minute or less).

RULE

1-L-2 WATER WASTE PROHIBITED: No person shall use or permit the use of District water as follows:

1-L-2a Watering of turf, ornamental landscape, open ground crops and trees, including agricultural irrigation, in a manner or to an extent which allows water to run to waste.

1-L-2b In any manner such that the escape of water through leaks, breaks or malfunction within the water user's plumbing or distribution system occurs for any period of time beyond which such break or leak should reasonably have been discovered and corrected. It shall be presumed that a period of forty-eight hours after the water user discovers such leak, break or malfunction, or receives notice from the District of such condition, whichever occurs first, is a reasonable time within which to correct such condition.

1-L-2c Through a handheld hose to wash automobiles, trucks, trailers, boats, or other types of mobile equipment without the use of a workable positive shutoff nozzle.

1-L-2d Operating any ornamental fountain, or similar structures, unless water for such use is recycled for lawful reuse without substantial loss.

1-L-2e Washing of sidewalks, walkways, driveways, parking lots or any other hard-surfaced areas by hose or flooding, except as otherwise necessary to prevent or eliminate conditions dangerous to the public health and safety or for other legitimate uses approved by the District.

1-L-2f Serving water by a restaurant to its customers without first being requested by the customer.

1-L-2g For any indiscriminate running of water or washing with water not otherwise prohibited above which is wasteful and without reasonable purpose.

1-L-2h Watering of residential, commercial, industrial and governmental outdoor irrigation from 9:00 a.m. to 4:00 p.m. except as necessary to test or make repairs to the irrigation system.

1-L-3 IRRIGATION SCHEDULES:

District may impose irrigation schedules for outdoor use, including agricultural use, to address water conservation and limited water supply.

1-L-4 FAILURE TO COMPLY.

1-L-4a Civil Penalties. In addition to any other penalties or sanctions provided by law, the following civil penalties shall apply for violation of any of the provisions of these rules:

(i) For the first violation of any of the provisions of these rules a written notice will be given.

(ii) For the second violation of any of the provisions of these rules a surcharge of twenty-five dollars ($25.00) shall be imposed. This penalty is payable as part of the water bill, by the customer at the premises at which the violation occurred.

(iii) For the third violation of any of the provisions of these rules a surcharge penalty of fifty dollars ($50.00) shall be imposed. This penalty is payable as part of the water bill, by the customer at the premises at which the violation occurred.

(iv) For a fourth violation of any of the provisions of these rules within twelve (12) calendar months, the District will install a flow restricting device of 1 GPM capacity for services up to one and one half (1-1/2) inch meter size, and comparatively sized restrictors for larger services, on the service of the customer

at the premises at which the violation occurred for a period of not less than forty-eight (48) hours. The charge for installing such a flow restricting device will be based upon the size of the meter and the actual cost of installation. The charge for removal of the flow restricting device and restoration of normal service shall be based on the actual cost involved. Said charges shall be payable by the customer as part of the water bill. Restoration of normal service will be performed during the hours of 8:00 a.m. to 4:00 p.m. on regular working days. In addition, a surcharge penalty of $50.00 shall be imposed for restoration of normal service, payable by said customer as part of the water bill.

(v) For any subsequent violation after the fourth violation of any of the provisions of these rules within twelve (12) calendar months, the District may discontinue water service to the customer at the premises at which the violation occurred.

1-L-4b Notice. The District will give notice of each violation to the customer at the premises at which the violation occurred, as follows:

(i) For a first, second or third violation, the District may give written notice of such violation to the customer personally or by regular mail.

(ii) If the penalty assessed is, or includes the installation of a flow restrictor or the discontinuance of water service to the customer for any period of time whatever, notice of the violation will be given in the following manner:

A. By giving written notice thereof to the customer personally; or
B. If the customer is absent from or unavailable at either the customer's place of residence or place of business, by leaving a copy with an adult at either place, and sending a copy through the United States mail addressed to the customer at either the

customer's place of business or residence.

C. If such place of residence and business cannot be ascertained, or an adult cannot be found on the premises, then by affixing a copy in a conspicuous place on the property where the failure to comply has occurred and also by delivering a copy to a person residing at the premises, if such person can be found, and also by sending a copy through the United States mail addressed to the customer at the customer's billing address and to the place where the property is situated.

D. All notices will contain, in addition to the facts of the violation, a statement of the possible penalties for each violation, a statement informing the customer of his right to a hearing on the violation, a brief summary of the appeal process specified herein, and the date and time termination will occur.

1-L-4c Hearing. Any customer against whom a penalty is to be levied pursuant to this section shall have a right to a hearing, in the first instance by the Manager, with the right of appeal to the Engineer/Manager or his designee, on the merits of the alleged violation, upon the written request of that customer to the Manager within fifteen (15) days of the date of notification of the violation. Penalties, including termination of water service, will be stayed until any such hearing is conducted and a written decision is made by the Manager or his designee.

1-L-4d Appeal of decision of Manager. A request for an appeal must be in writing and filed with the Engineer/Manager or his designee. The filing by a customer of a request for an appeal for any form of relief must be made within fifteen (15) days of the decision of the Manager. Filing of such a request will automatically stay the implementation of the proposed course of action, pending the decision of the Engineer/Manager or his designee. No other or further stay will be granted. The appeal hearing

will be scheduled to occur within a reasonable, prompt period of time following the written notice of appeal. The water user may present any evidence which would tend to show that the alleged wasteful water use has not occurred. Formal rules of evidence will not apply and all relevant evidence customarily relied upon by reasonable persons in the conduct of serious business affairs will be admissible, unless a sound objection warrants its exclusion by the Engineer/Manager or his designee. The decision of the Engineer/Manager or his designee shall be final.

1-L-4e Reconnection. Where water service is disconnected, as authorized above, it will be reconnected upon correction of the condition or activity and the payment of the estimated reconnection charge.

1-L-4f Public Health and Safety. Nothing contained in these rules shall be construed to require the District to curtail the supply of water to any customer when, in the discretion of the Manager or Engineer/Manager or his designee, such water is required by that customer to maintain an adequate level of public health and safety.

Appendix K

DWR Guideline Tables

URBAN WATER MANAGEMENT PLANS - 2005 GUIDELINES

5-Dec

Table 1
Coordination with Appropriate Agencies - Ref. Report Section ____

Check at least one box on each row	Participate in developing the plan	Comment on the draft	Attended public meetings	Was contacted for assistance	Was sent a copy of the draft plan	Was sent a notice of intention to adopt	Not involved / No information
Ventura County Waterworks District No.1	X	X	X	X	X	X	
Other water suppliers (a)				X	X		
Water management agencies (b)				X	X		
Relevant public agencies (c)				X	X		

(a) Ventura County Waterworks District No. 8, Metropolitan Water District, Calleguas Municipal Water District
(b)Fox Canyon Groundwater Management Agency
(c) City of Moorpark Ventura County

Table 2
Population - Current and Projected - Ref. Report Section ____

	2000	2005	2010	2015	2020	2025	2030
Service Area Population		35,330	40,060	44,790	49,520	49,520	49,520

Source: Ventura County Waterworks District No. 1, Urban Water Management Plan 2000.
The 2020 population is the projected build-out population. No growth past 2020 is assumed

Table 3
Climate - Ref. Report Section ____

	January	February	March	April	May	June	
Standard Average ETo	1.83	2.2	3.42	4.49	5.25	5.67	
Average Rainfall	0.51	2.38	0.99	0.06	0	0	
Average Max Temperature	65.3	60.6	75.4	72.7	77.5	77.7	
Average Min Temperature	44.9	43.9	52.6	50.6	53.8	56.8	
	July	**August**	**Sept.**	**October**	**Nov.**	**Dec.**	**Annual**
Standard Average ETo	5.86	5.61	4.49	3.42	2.36	1.83	46.43
Average Rainfall	0	0	0.01	4.09	0.31	6.15	14.5
Average Max Temperature	83.4	83.3	85.1	73.2	66.3	63.7	73.7
Average Min Temperature	58.7	58.1	59.4	51.7	45.9	48	52

Table 4 Current and Planned Water Supplies - AFY-- Ref. Report Section ____						
Water Supply Sources	2005	2010	2015	2020	2025	2030 - opt.
Water purchased from:						
Calleguas Municipal District						
Tier 1	8,174	6,985	5,924	7,015	7,015	7,015
Agricultural	2,013	2,013	2,013	2,013	2,013	2,013
Tier 2	0	0	0	0	0	0
Supplier produced groundwater	2,329	2,183	2,183	2,183	2,183	2,183
Recycled Water (project use)	1,008	2,016	2,016	2,016	2,016	2,016
Desalination (South Las Posas Basin)	0	2,000	5,000	5,000	5,000	5,000
Simi Valley Recycled Water	1,179	1,179	1,179	1,179	1,179	1,179
Other	0	0	0	0	0	0
Total	**14,703**	**16,376**	**18,315**	**19,406**	**19,406**	**19,406**
Total Demand From Table 12	**12,933**	**15,197**	**17,136**	**18,227**	**18,227**	**18,227**

Table 5 Groundwater Pumping Rights - AF Year Ref: Report Section ___	
Basin Name	Pumping Right - AFY
Fox Canyon Aquifers (FCGMA) - end 2004 (a)	2,474
Fox Canyon Aquifers (FCGMA) - 2005 (est.) (b)	2,329
Fox Canyon Aquifers (FCGMA) - 2010-2030 (est.)(c)	2,183
Total - Long term	2,183

(a) With 15% GMA reduction
(b) With 20% reduction
(b) With 25% reduction

Table 6 Amount of Groundwater pumped - AFY - Ref. Report Section ____					
Basin Name (s)	2000	2001	2002	2003	2004
Groundwater Pumped	604	1,512	1,539	721	8
% of Total Water Supply	5%	14%	12%	6%	0%

Table 7 Amount of Groundwater projected to be pumped - AFY - Ref. Report Section ____					
Basin Name(s)	2010	2015	2020	2025	2030 - opt
Groundwater Pumped	2,183	2,183	2,183	2,183	2,183
% of Total Water Supply	13%	12%	11%	11%	11%
	0	0	0	0	0

Table 8 Supply Reliability - AF 2005 Conditions - Ref. Report Section ____					
		Multiple Dry Water Years			
Average / Normal Water Year	Single Dry Water Year	Year 1	Year 2	Year 3	Year 4
16,376	18,381	18,654	18,654	18,654	18,654
% of Normal	112%	114%	114%	114%	114%

Table 9 Basis of Water Year Data - Ref. Report Section ____			
Water Year Type	All Sources	Source name	Source name
Average Water Year	2010		
Single-Dry Water Year	2010		
Multiple-Dry Water Years	2010		

Table 10 Factors resulting in inconsistency of supply - Ref. Report Section ____				
Name of supply	Legal	Environmental	Water Quality	Climatic
CMWD Tier 2	None	None	None	X
CMWD Agricultural	None	None	None	X
GW Conservation Credits	None	None	None	X

Note: Calleguas has indicated that there could be shortages between 2006 and 2010 during some drought conditions.

Table11 Transfer and Exchange Opportunities - AF Year - Ref. Report Section ____					
Transfer Agency	Transfer or Exchange	Short term	Proposed Quantities	Long term	Proposed Quantities
None	0	0	0	0	0
Total	0	0	0	0	0

TABLE 12 - Past, Current and Projected Water Deliveries -- Ref. Report Section ____								
	2000				2004			
	metered		unmetered		metered		unmetered	
Water Use Sectors	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY
Single family	8,331	5,954			9,067	7,289		
Multi-family	0	0			0	0		
Commercial	178	788			211	721		
Industrial	91	329			72	260		
Institutional/gov	121	1,105			133	894		
Dedicated Irrigation	169	3,136			171	3,484		
Construction	0	1			1	1		
Hydrant/Fire/Other	197	314			237	284		
Total	9,087	11,627	0	0	9,892	12,933	0	0

	2010				2015			
	metered		unmetered		metered		unmetered	
Water Use Sectors	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY
Single family	10,826	9,393			12,551	10,889		
Multi-family	0	0			0	0		
Commercial	252	929			292	1,077		
Industrial	86	334			100	388		
Institutional/gov	159	1,152			184	1,335		
Dedicated Irrigation	171	3,021			171	3,021		
Construction	1	1			1	1		
Hydrant/Fire/Other	283	367			328	425		
Total	11,778	16,197	0	0	13,627	17,136	0	0

	2020				2025			
	metered		unmetered		metered		unmetered	
Water Use Sectors	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY
Single family	13,521	11,730			13,521	11,730		
Multi-family	0	0			0	0		
Commercial	315	1,160			315	1,160		
Industrial	107	418			107	418		
Institutional/gov	198	1,439			198	1,439		
Dedicated Irrigation	171	3,021			171	3,021		
Construction	2	1			2	1		
Hydrant/Fire/Other	353	458			353	458		
Total	14,667	18,227	0	0	14,667	18,227	0	0

	2030			
	metered		unmetered	
Water Use Sectors	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY
Single family	13,521	11,730		
Multi-family	0	0		
Commercial	315	1,160		
Industrial	107	418		
Institutional/gov	198	1,439		
Dedicated Irrigation	171	3,021		
Construction	2	1		
Hydrant/Fire/Other	353	458		
Total	14,667	18,227	0	0

Table 13 Sales to Other Agencies - AF Year - Ref. Report Section ____							
Water Distributed	2000	2005	2010	2015	2020	2025	2030 - opt
None (a)	0	0	0	0	0	0	0
name of agency							
Total	0	0	0	0	0	0	0

Table 14 Additional Water Uses and Losses - AF Year - Ref. Report Section ____							
Water Use	2000	2005	2010	2015	2020	2025	2030 - opt
Saline barriers	0	0	0	0	0	0	0
Groundwater recharge	0	0	0	0	0	0	0
Conjunctive use	0	0	0	0	0	0	0
raw water	0	0	0	0	0	0	0
recycled	0	0	0	0	0	0	0
other (define)	0	0	0	0	0	0	0
Unaccounted-for system losses	-56.7	242	0	0	0	0	0
Total	(57)	242	0	0	0	0	0

Table 15 Total Water Use - AF Year - Ref. Report Section ____							
Water Use	2000	2005	2010	2015	2020	2025	2030 - opt
Total of Tables 12,13,14	11,670	12,933	15,197	17,136	18,227	18,227	18,227

Table 16 Evaluation of unit cost of water resulting from non-implemented / non-scheduled DMMs and planned water supply project and programs - Ref. Report Section ____	
Non-implemented & Not Scheduled DMM / Planned Water Supply Projects (Name)	Per-AF Cost ($)
None	

Table 17 Future Water Supply Projects - Ref. Report Section ____							
Project Name	Projected Start Date	Projected Complete Date	Normal Year AF to agency	Single-dry yed/yield AF	Multiple-Dry Year 1 AF	Multiple-Dry-Year 2 AF	Multiple-Dry-Year 3 AF
South Las Posas Basin Desalter	**Apr-05**	**Dec-09**	**5,000**	5,000	5,000	5,000	5,000

Table 18 Opportunities for desalinated water - Report Section ____		
Sources of Water	Check if yes	Check if planned implementation
Ocean Water		
Brackish ocean water		
Brackish groundwater	x	X
other		

Table 19 Agency demand project. provided to wholesale suppliers - AFY - Ref. Report Section ____					
Wholesaler	2010	2015	2020	2025	2030 - opt
CMWD (average year)	8,998	7,937	9,028	9,028	9,028
CMWD (single dry year)	11,003	10,174	11,396	11,396	11,396
CMWD (multi dry year)	11,276	10,487	11,730	11,730	11,730

Table 20 Wholesaler identified/ quantified existing and planned water sources- AFY - Report Section ____					
Wholesaler sources	2010	2015	2020	2025	2030 - opt
Potable Groundwater	25,306	25,941	26,117	18,744	23,883
Desalinated Brackish Groundwater	16,050	19,775	20,500	28,700	28,950
Reclaimed Wastewater	8,871	13,081	17,280	21,483	21,656
Untreated Surface Water	2,703	3,409	4,115	5,190	6,265
Non-potable Groundwater	7,649	8,135	8,656	8,797	8,976
Imported from MWD	124,800	128,900	136,500	141,900	147,200
Total	**185,379**	**199,241**	**213,168**	**224,814**	**236,930**

Table 21 Wholesale Supply Reliability - % of normal AFY - Ref. Report Section ____					
		Multiple Dry Water Years			
Wholesaler sources	Single Dry	2010	Year 2	Year 3	Year 4
Total local	98%	100%			
Total imported	108%	113%			
Grand Total	105%	109%			

based on 2010 data from CMWD's draft 2005 UWMP

Table 22 Factors resulting in inconsistency of wholesaler's supply - Report Section ____				
Name of supply	Legal	Environment	Water Quality	Climatic
None				

Table 23 Water Supply Shortage Stages and Conditions - Ref. Report Section ____ RATIONING STAGES		
Stage No.	Water Supply Conditions	% Shortage
1	Reduction in M&I use by 10 percent and Reduction in Ag use of 10 percent	10%
2	Reduction in M&I use by 20 percent and Reduction in Ag use of 40 percent	26%
3	Reduction in M&I use by 30 percent and Reduction in Ag use of 60 percent	50%

Table 24
Three-Year Estimated Minimum Water Supply - AF Year- Ref. Report Section ____

Source	Normal	Year 1	Year 2	Year 3
CMWD Tier 1	7,411	7,411	7,411	7,411
CMWD Ag/Tier 2	1,587	0	0	0
Groundwater	2,183	2,183	2,183	2,183
Recycled Water	2,016	1,008	1,008	1,008
Simi Valley Recycled Water	1,179	1,179	1,179	1,179
Desalted Groundwater	2,000	0	0	0
Total	16,376	11,761	11,761	11,761
Base year 2010				

Table 25
Preparation Actions for a Catastrophe - Ref. Report Section ____

Possible Catastrophe	Check if Discussed
Regional power outage	x
Earthquake	x
Tsunami	x
Other (name event)	

Table 26
Mandatory Prohibitions - Ref. Report Section ____

Examples of Prohibitions	Stage When Prohibition Becomes Mandatory
see WSCP in Appendix J	

Table 27
Consumption Reduction Methods - Ref. Report Section ____

Consumption Reduction Methods	Stage When Method Takes Effect	Projected Reduction (%)
Demand reduction program	All Stages	
Restrict building permits	3	
Use prohibitions	All Stages	
Water shortage pricing	All Stages	
Voluntary rationing	1	
Mandatory rationing	2 and 3	
Education program	All Stages	
Percentage reduction by customer type	All Stages	

Table 28
Penalties and Charges - Ref. Report Section ____

Penalties or Charges - During Water Shortage	Stage When Penalty Takes
Penalty for excess use	Stage 2 and 3
Charge for excess use	Stage 2 and 3
Other (name penalties or charges)	
Other (name penalties or charges)	

Table 29 Proposed measures to overcome revenue impacts - Ref. Report Section ____	
Names of measures	Check if Discussed
Rate adjustment	x
Development of reserves	x
name of measure	

Table 30 Proposed measures to overcome expenditure impacts - Ref. Report Section ____	
Names of measures	Check if Discussed
Rate Stablization Fund	x
name of measure	
name of measure	
name of measure	

Table 31 Water Use Monitoring Mechanisms - Ref. Report Section ____	
Mechanisms for determining actual reductions	Type data expected (pop-up?)
Monthly supply and demand comparison	
Monthly Excess Use reported to County and customer	
Bi-monthly meter readings	

Table 32 Participating Agencies- Water Recycling Planning Ref: Report Section ___	
	participate
Water agencies	District No. 1 and No. 8
Wastewater agencies	
Groundwater agencies	
Planning Agencies	

Table 33 Wastewater Collection and Treatment - AF Year - Ref. Report Section ____							
Type of Wastewater	2000	2005	2010	2015	2020	2025	2030 - opt
Wastewater collected & treated in service area	6,796	2,800	3,360	4,110	4,850	5,600	5,600
Volume that meets recycled water standard	1,030	2,800	3,360	3,360	3,360	3,360	3,360

Table 34 Disposal of wastewater (non-recycled) AF Year - Ref. Report Section ____							
Method of disposal	Treatment Level	2005	2010	2015	2020	2025	2030 - opt
Creek Discharge	secondary	613	165	915	1,655	2,405	2,405
Name of method							
	Total	613	165	915	1,655	2,405	2,405

Table 35 Recycled Water Uses - Actual and Potential (AFY) - Ref. Report Section ____							
User type	Treatment Level	2005	2010	2015	2020	2025	2030 - opt
Agriculture	Tertiary	0	1,008	1,008	1,008	1,008	1,008
Landscape	Tertiary	2,187	2,187	2,187	2,187	2,187	2,187
Wildlife Habitat							
Wetlands							
Industrial							
Groundwater Recharge							
Other (Agricultural)							
Other (user type)							
	Total	2,187	3,195	3,195	3,195	3,195	3,195

Table 36 Projected Future Use of Recycled Water in Service Area - AF Year - Ref. Report Section ____					
	2010	2015	2020	2025	2030 - opt
Projected Use	3,195	3,195	3,195	3,195	3,195
	0	0	0	0	0

Table 37 Recycled Water Uses - 2000 Projection compared with 2005 actual - AFY Ref: Report Section ___		
User type	2000 Projection for 2005	2005 actual use
Agriculture	0	0
Landscape	1,006	552
Wildlife Habitat	0	0
Wetlands	0	0
Industrial	0	0
Groundwater Recharge	0	0
Other (user type)	0	0
Other (user type)	0	0
Total	1,006	552

Table 38 Methods to Encourage Recycled Water Use - Ref. Report Section ____					
Actions	AF of use projected to result from this action				
	2010	2015	2020	2025	2030 - opt
Financial incentives	2,016	2,016	2,016	2,016	2,016
Total	2,016	2,016	2,016	2,016	2,016

Table 39 Current & projected water supply changes due to water quality - percentage - Ref. Report Section ____						
Water source	2005	2010	2015	2020	2025	2030 - opt
None	0	0	0	0	0	0

Table 40 Projected Normal Water Supply - AF Year - Ref. Report Section ____					
(from table 4)	2010	2015	2020	2025	2030 - opt
Supply	16,376	18,315	19,406	19,406	19,406
% of year 2005	111%	125%	132%	132%	132%

Table 41 Projected Normal Water Demand - AF Year - Ref. Report Section ____					
(from table 15)	2010	2015	2020	2025	2030 - opt
Demand	15,197	17,136	18,227	18,227	18,227
% of year 2005	118%	132%	141%	141%	141%

Table 42 Projected Supply and Demand Comparison - AF Year - Ref. Report Section ____					
	2010	2015	2020	2025	2030 - opt.
Supply totals	16,376	18,315	19,406	19,406	19,406
Demand totals	15,197	17,136	18,227	18,227	18,227
Difference	1,179	1,179	1,179	1,179	1,179
Difference as % of Supply	7%	6%	6%	6%	6%
Difference as % of Demand	8%	7%	6%	6%	6%

Table 43 Projected SINGLE DRY year Water Supply - AF Year - Ref. Report Section ____					
	2010	2015	2020	2025	2030 - opt.
Supply	18,381	20,552	21,744	21,744	21,744
% of projected normal	112%	112%	112%	112%	112%

Table 44 Projected SINGLE DRY year Water Demand - AF Year - Ref. Report Section ____					
	2010	2015	2020	2025	2030 - opt.
Demand	17,202	19,373	20,595	20,595	20,595
% of projected normal	113%	113%	113%	113%	113%

Assumes Ag demand increase of 18 % and M&I increase of 14 % for overall increase of 13 %

Table 45 Projected SINGLE DRY year Supply and Demand Comparison - AF Year - Ref. Report Section ____					
	2010	2015	2020	2025	2030 - opt.
Supply totals	18,381	20,552	21,744	21,744	21,744
Demand totals	17,202	19,373	20,595	20,595	20,595
Difference	1,179	1,179	1,149	1,149	1,149
Difference as % of Supply	6%	6%	5%	5%	5%
Difference as % of Demand	7%	6%	6%	6%	6%

Table 46 Projected supply during multiple dry year period ending in 2010 - AF Year- Report Section ____					
	2006	2007	2008	2009	2010
Supply	17,106	17,476	17,857	18,250	18,654
% of projected normal	114%	114%	114%	114%	114%
Normal Supply from Table 4 for 05, 10	15038	15372	15707	16041	16,376
For 2005	14,703				

Table 47 Projected demand multiple dry year period ending in 2010 - AFY- Ref. Report Section ____ Ref: Report Section __					
	2006	2007	2008	2009	2010
Demand	15,927	16,297	16,678	17,071	17,475
% of projected normal	119%	118%	117%	116%	115%
Normal Demand from Table 15 for 05,10	13386	13839	14291	14744	15,197
For 2005	12,933				

Assumes Ag demand increase of 19 % and M&I increase of 14 % for overall increase of 15 %

Table 48 Projected Supply and Demand Comparison during multiple dry year period ending in 2010- AF Year Ref: Report Section ____					
	2006	2007	2008	2009	2010
Supply totals	17,106	17,476	17,857	18,250	18,654
Demand totals	15,927	16,297	16,678	17,071	17,475
Difference	1,179	1,179	1,179	1,179	1,179
Difference as % of Supply	7%	7%	7%	6%	6%
Difference as % of Demand	7%	7%	7%	7%	7%

Table 49
Projected supply during multiple dry year period ending in 2015 - AF Year
Ref: Report Section _____

	2011	2012	2013	2014	2015
Supply	19,071	19,500	19,941	20,396	20,865
% of projected normal	114%	114%	114%	114%	114%
Normal Supply From Table 4	16764	17152	17539	17927	18,315
For 2010	16,376				

Table 50
Projected demand multiple dry year period ending in 2015 - AFY
Ref: Report Section ___

	2011	2012	2013	2014	2015
Demand	17,892	18,321	18,762	19,271	19,686
% of projected normal	115%	115%	115%	115%	115%
Normal Demand From Table 15	15585	15972	16360	16748	17,136
For 2010	15,197				

Table 51
Projected Supply and Demand Comparison during multiple dry year period ending in 2015- AF Year
Ref: Report Section __

	2011	2012	2013	2014	2015
Supply totals	19,071	19,500	19,941	20,396	20,865
Demand totals	17,892	18,321	18,762	19,271	19,686
Difference	1,179	1,179	1,179	1,125	1,179
Difference as % of Supply	6%	6%	6%	6%	6%
Difference as % of Demand	7%	6%	6%	6%	6%

Table 52
Projected supply during multiple dry year period ending in 2020 - AF Year
Ref: Report Section ___

	2016	2017	2018	2019	2020
Supply	20,175	20,637	21,113	21,603	22,108
% of projected normal	109%	110%	111%	113%	114%
Normal Supply from Table 4	18533	18751	18970	19188	19,406
For 2015	18,315				

Table 53
Projected demand multiple dry year period ending in 2020 - AFY
Ref: Report Section ___

	2016	2017	2018	2019	2020
Demand	18,996	19,458	19,934	20,424	20,929
% of projected normal	109%	111%	112%	113%	115%
Normal Demand From Table 15	17354	17572	17790	18008	18,227
For 2015	17,136				

Table 54
Projected Supply and Demand Comparison during multiple dry year period ending in 2020- AF Year
Ref: Report Section ___

	2016	2017	2018	2019	2020
Supply totals	20,175	20,637	21,113	21,603	22,108
Demand totals	18,996	19,458	19,934	20,424	20,929
Difference	1,179	1,179	1,179	1,179	1,179
Difference as % of Supply	6%	6%	6%	5%	5%
Difference as % of Demand	6%	6%	6%	6%	6%

Table 55
Projected supply during multiple dry year period ending in 2025 - AF Year
Ref: Report Section __

	2021	2022	2023	2024	2025
Supply	22,108	22,108	22,108	22,108	22,108
% of projected normal	114%	114%	114%	114%	114%
Normal Supply from Table 4	19406	19406	19406	19406	19,406
For 2020	19,406				

Table 56
Projected demand multiple dry year period ending in 2025 - AFY
Ref: Report Section ___

	2021	2022	2023	2024	2025
Demand	20,929	20,929	20,929	20,929	20,929
% of projected normal	115%	115%	115%	115%	115%
Normal Demand from Table 15	18227	18227	18227	18227	18,227
For 2020	18,227				

Table 57
Projected Supply and Demand Comparison - multiple dry year period ending in 2025- AF Year
Ref: Report Section ___

	2021	2022	2023	2024	2025
Supply totals	22,108	22,108	22,108	22,108	22,108
Demand totals	20,929	20,929	20,929	20,929	20,929
Difference	1,179	1,179	1,179	1,179	1,179
Difference as % of Supply	5%	5%	5%	5%	5%
Difference as % of Demand	6%	6%	6%	6%	6%