'e		Coot Acou	mntione	(control)	- November 1990	
ater System Costs		Cost Assu	3.5%			3.0%
		Labor- to FY 11		Serv/Sup to FY15		
		Labor- FY 12 on	2.0%	Energy		5.0%
		Serv/Sup to FY12	0.0%	NBA Water		3.5%
		Serv/Sup to FY13	1.0%	Depreciation	F	lat - non Cash
		Serv/Sup to FY14	2.0%	Water Use	Developme	ent Projections
			W. SELECT TO A SERVICE OF THE SERVIC			orranger en
	FY 09-10 Budget	FY 10-11 Projected	FY 11-12 Projected	FY 12-13 Projected	FY 13-14 Projected	FY 14-15 Projected
Summary	Dudget	1	2	3	4	5
Operations (less Depreciation)	1,920,300	1,969,738	2,013,658	2,094,696	2,157,316	2,228,873
Special Projects	51,250	101,565	112,588	134,005	146,073	148,568
Debt Service	572,126	657,572	736,659	731,673	771,378	823,339
Equipment - Funded from Connection Revenues	42,000	50,000	50,000	50,000	50,000	50,000
Capital Improvements - Funded from Connections & Debt	2,056,000	4,801,971	560,000	725,000	570,000	125,000
Total Costs	4,641,676	7,580,847	3,472,905	3,735,373	3,694,767	3,375,780
			A STATE OF THE PARTY OF THE PAR	THE PARTY OF THE P		
Allocation of Operations and Debt Costs		4 1955 24 1955	The state of the s	TALLE TO THE TALL THE		
between fixed Monthly Service Charges and		Hr.	10-11-10-1 			
variable Volume Charges		A CONTROL OF THE CONT		The state of the s		
Operations & Special Projects	1,971,550	2,071,304	2,126,246	2,228,701	2,303,388	2,377,442
Est Percent Fixed - from flat Monthly Service Charges	30%	35%	35%	35%	35%	36%
Est Percent Variable - from use of water	70%	65%	65%	65%	65%	64%
	1000 1000 1000 1000	The state of the s		704 070	774 070	000 000
Debt Service - 100% Fixed	572,126	657,572	736,659	731,673	771,378	823,339
'al to be recovered from User Charges	2,543,676	2,728,876	2,862,905	2,960,373	3,074,767	3,200,780
	To Peldrenness To		=0/	25/	40/	404
	3%	7%	5%	3%	4%	4%
Allocation of Costs			== 0.10	1 507 704	1 570 440	4.075.000
Fixed	1,163,591		1,477,012	1,507,701	1,573,413	1,675,939
Variable	1,380,085	1,350,081	1,385,892	1,452,673	1,501,354 3,074,767	1,524,841 3,200,780
Total to be recovered from User Charges	2,543,676	2,728,876	2,862,905	2,960,373	3,074,707	3,200,700
	75.					90
Fixed Costs	1,163,591	1,378,795	1,477,012	1,507,701	1,573,413	1,675,939
Less Portion of Est. Connection Fees [1]	(98,175)		(56,200)	The second state of the second	(300,686)	(338,570)
Less Other Sources of Revenues [2]	(379,850)	(368,994)	(359,094)	(348,106)	(337,075)	(326,000)
Net Fixed Costs to be recovered from Mthly						
Service Charges	685,566	987,023	1,061,718	858,788	935,652	1,011,369
Revenues from Fixed Charges						
Fixed Monthly Service Charges	735,201	690,916	743,203	601,151	654,956	707,958
% of Fixed Costs from Monthly Service Charges	107%	70%	70%	70%	70%	70%
% of All Costs recovered from Monthly Service Charge	29%	25%	26%	20%	21%	22%
Ē		-6%	8%	-19%	9%	8%
		4 8 8 8 8 8 4	4.005.000	4 450 070	1 504 054	1 504 044
Variable Costs	1,380,085	1,350,081	1,385,892	1,452,673	1,501,354	1,524,841
The second secon	(49,635)		318,516	257,636	280,696	303,411 1,828,252
Remainder of Fixed Costs		1,646,188	1,704,408	1,710,309	1,782,050	1,020,232
	1,330,450	114 5-11-				
Total	(157,000)	***************************************	(157,000)	(157,000)	(157,000)	(157,000)
Total Less Other Sources of Revenues [2]		***************************************	(157,000)	(157,000)	(157,000)	(157,000)
Total Less Other Sources of Revenues [2] Net Costs to be recovered from Variable Use	(157,000)	(157,000)				
Total Less Other Sources of Revenues [2] Net Costs to be recovered from Variable Use Charges	(157,000) 1,173,450	(157,000) 1,489,188	1,547,408	1,553,309	1,625,050	1,671,252
Total Less Other Sources of Revenues [2] Net Costs to be recovered from Variable Use	(157,000)	(157,000)				

City of Calistoga

able						
Vater System Costs		Cost Assu	mptions	(control)		
vator dystem docto		Labor- to FY 11	3.5%	Serv/Sup to FY15		3.0%
		Labor- FY 12 on	2.0%	Energy		5.0%
			0.0%	0.000		3.5%
		Serv/Sup to FY12		NBA Water		
		Serv/Sup to FY13	1.0%	Depreciation		Flat - non Cash
		Serv/Sup to FY14	2.0%	Water Use	Developm	ent Projections
	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14	FY 14-15
	Budget	Projected	Projected	Projected	Projected	Projected
Allocation of Operating Cost by Sources		400000000000000000000000000000000000000		Account of the control of the contro		Some
of Revenue				Land State of the	THE PARTY OF THE P	The cold will cold with the cold will be cold will be cold with the cold will be cold will be cold with the cold will be cold will be cold with the cold will be cold will b
(Inc. Philips of Salition Proposite Co.) Section 2019 100 Author Vision Co.				The second secon	Standard Sta	
Iser Fees			710.000		054.050	707 050
Fixed	735,201	690,916	743,203	601,151	654,956	707,958
Variable	1,173,450 379,850	1,489,188 368,994	1,547,408 359,094	1,553,309 348,106	1,625,050 337,075	1,671,252 326,000
Brants for Debt Service Other Sources	157,000	157,000	157,000	157,000	157,000	157,000
ortion of Connection Fees	98,175	22,778	56,200	300,807	300,686	338,570
otal	2,543,676	2,728,876	2,862,905	2,960,373	3,074,767	3,200,780
-	m,o 10,010	######################################	The state of the s	SUBSTRUCT SUBSTRUCT STRUCT		
Iser Fees		A CONTROL OF THE PARTY OF THE P	THE STATE OF THE S			
Fixed	29%		26%		21%	22%
Variable	46%		¥ 54%		53%	52%
Frants for Debt Service	15 % 6%		13% 5%		11% 5%	10% 5%
Other Sources Outloon of Connection Fees	4%	The state of the s	2%		10%	11%
otal	100%	S. 55	100%		100%	100%
- Court		The state of the s				
North Bay Aqueduct Wholesale Cost	of Water	¥				
						200
'rojection of Water Purchase (in acre feet)	527	524	525	553	561	572
Sund Observes from State	209,583	215,422	223,625	243,805	256,099	270,215
ixed Charges from State /olume Charges From State, County and Napa City	377,217	387,726	402,490	438,811	460,937	486,345
One Time	577,217	007,720	402,100	100,011	100,001	100,010
otal Cost of Purchased Water	586,800	603,148	626,116	682,617	717,036	756,560
cost per af						
Fixed	397.58	411.49	425.90	440.80	456.23	472.20
Variable	715.58	740.62	766.55	793.37	821.14	849.88
Total	1,113.16	1,152.12	1,192.44	1,234.18	1,277.37	1,322.08
Cost per hcf	0.01	0.04	0.00	4.04	1 05	1.00
Fixed	0.91 1.64	0.94 1.70	0.98 1.76	1.01 1.82	1.05 1.89	1.08 1.95
Variable Total	2.56	2.64	2.74	2.83	2.93	3.04
i otal	2.00	4.04	2.17	2.00	2.00	0.01

'e						
vater System Costs		Cost Assu Labor- to FY 11 Labor- FY 12 on Serv/Sup to FY12 Serv/Sup to FY13	mptions 3.5% 2.0% 0.0% 1.0%	(control) Serv/Sup to FY15 Energy NBA Water Depreciation		3.0% 5.0% 3.5% Flat - non Cash
		Serv/Sup to FY14	2.0%	Water Use		ent Projections
		Servioup to 1 114	20.70	water osc	- Bevelopii	ione i rojeotiono
	FY 09-10 Budget	FY 10-11 Projected	FY 11-12 Projected	FY 12-13 Projected	FY 13-14 Projected	FY 14-15 Projected
Costs Details		AND THE STREET WATER		en e		U constitution plants
Costs Details				Water State of the Control of the Co	Total age	*
Operations				The state of the s	The state of the s	
Water Distribution			Andreas Andreas Andreas Andreas Andreas Andreas Andreas	The second secon	Total Control of the	
Personnel Costs	382,150	395,525	403,436	411,504	419,735	428,129
Services & Supplies	103,200	103,200	103,200	103,991	105,589	108,033
Depreciation	176,200	176,200	176,200	176,200	176,200	176,200
Other	-	- 4	**************************************	When the state of	704 500	
Total	661,550	674,925	682,83 <u>6</u>	691,695 1%	701,523 1%	712,363 2%
Water Treatment	7%	2%	170	170	1 70	2 70
Personnel Costs	477,300	494,006	503,886	513,963	524,243	534,727
Services & Supplies	310,650	310,650	310,650	312,932	317,540	324,591
Energy	60,200	63,210	66,371	69,689	73,173	76,832
Wholesale Water	586,800	603,148	626,116	682,617	717,036	756,560
Depreciation	173,000	173,000	173,000	173,000	173,000	173,000
Other						-
Total	1,607,950	1,644,013 2%	1,680,022 2%	1,752,201 4%	1,804,992 3%	1,865,711 3%
	10%	2%	2%	470	370	370
Total Operations	2,269,500	2,318,938	2,362,858	2,443,896	2,506,516	2,578,073
Less Depreciation	(349,200)	(349,200)	(349,200)	(349,200)	(349,200)	(349,200)
Net Operations	1,920,300	1,969,738	2,013,658	2,094,696	2,157,316	2,228,873
	2%	3%	2%	4%	3%	3%
	Family of Control of C					
Special Projects	The state of the s					
Flood Emergency	25.250	- 	55,633	56,376	57,503	59,035
Water Conservation Water Studies	35,350 15,900	55,268 46,298	56,955	77,629	88,570	89,534
Total Special Projects	51,250	101,565	112,588		146,073	148,568
Total Special Flores	-41%		11%		9%	2%
Debt Service	572,126	657,572	736,659	731,673	771,378	823,339
THE PARTY OF THE P	13%	15%	12%	-1%	5%	7%
Equipment	42,000	50,000	50,000	50,000	50,000	50,000
Capital Projects						
Distribution	2,031,000	4,787,971	540,000	725,000	250,000	125,000
W. NO. (2019) 1930 (1931) 1930 (1931) 1930 (1931)					200 000	
Treatment	25,000	14,000	20,000	725,000	320,000 570,000	125,000

4,641,676

7,580,847

3,375,780

3,735,373

3,472,905

3,694,767

Total

Vater System Costs

Cost Assur	nptions	s (control)	
Labor- to FY 11	3.5%	Serv/Sup to FY15	3.0%
Labor- FY 12 on	2.0%	Energy	5.0%
Serv/Sup to FY12	0.0%	NBA Water	3.5%
Serv/Sup to FY13	1.0%	Depreciation	Flat - non Cash
Serv/Sup to FY14	2.0%	Water Use	Development Projections

FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14	FY 14-15
Budget	Projected	Projected	Projected	Projected	Projected

^{1]} Estimate of projected Connection fees from new/expanded development that are allocated to retire portion of debt issued for improvements nat proportionally benefit new/expanded development.

^{2]} The other revenues include Measure A Grant funding of Kimball Pipeline/Reservior debt Service, sale of property, interest earnings and niscellaneous revenues.

- hle ____ pital Improvement Projects

Fd	Proj	Description	Revised FY 09-10	Projected FY 10-11	Projected FY 11-12	Projected FY 12-13	Projected FY 13-14	Projected FY 14-15
				1	2	3	4	5
			Distr	bution				
12	5227	Pipeline-Myrtledale/Grant/Kimball Main	10,000	75,000		-		-
12	5232	Mt. Washington Water Tank	1,946,000	4,127,971	12			-
12	5418	NBA Pump Station (Dwyer Road)	75,000	400,000	100,000	-	-	-
12	5491	Replacement Mains Various Loc			, -	150,000	200,000	-
12	5416	Polybutylene Service Replacement		50,000	-	75,000	-	75,000
12	5419	Repair Fiege Tank	_	_	60,000	300,000) <u>-</u>
12	5201	Silverado Trail Valves / Shut Off Valves		60,000	30,000	-	j.	=
12	5220	2nd St Water Main		_	-	<u>.</u> .	2	2
12	5476	Automatic Meter Read Program		50,000	50,000	50,000	50,000	50,00
12	5476	NBA Cathodic Protection Survey	_	25,000	150,000	_	_	
	Proj	Water Master Plan	- 1	_	150,000	150,000		-
		Subtotal Water Distribution	2,031,000	4,787,971	540,000	725,000	250,000	125,00
	5411	Dredge Kimball Reservoir	-	tment	-		200,000	
. 4	5424	Kimball Spillway Safety Impv & WTP Upgrades		_	_	77		-
12	5426	Storage Building - Kimball	_	_			-	en e
12	5429	Pump Protection - Kimball	_	_	20,000	_		
12	5457	Chemical Tank Cover			3330.4000.00			
12	5459	Treatment System Security Improvements	-	-	-		120,000	-
12	5491	SCADA Conversion to Radio Telemetry	-	-	-	. [120,000	
12	5492	Pope St Pump Station Telemetry Update		14,000		, ,		-
	Proj	Kimball Inflow Measurement	25,000	-	-	-	-	
		Subtotal Water Treatment	25,000	14,000	20,000	-	320,000	150
					and the second s		The state of the s	

Project costs for Financing Option A - \$1,250,000

(0) 17,376

7,163,000

508,426

6,804,000

493,105

6,987,000

491,772

6,620,000

488,119

6,249,000

487,508

6,435,000

487,834

Outstanding Balance at 6/30

Existing Annual Debt Payments

Existing Outstanding Balance at 6/30

Total Annual Payments

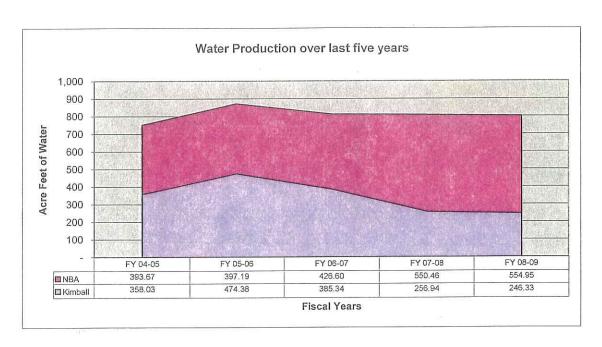
Table ____

Water Debt Issues - Current and Proposed

water Debt Issues - Current and Proposed	ı						
Debt Issues	,	Adopted FY 09-10	Projected FY 10-11	Projected FY 11-12	Projected FY 12-13	Projected FY 13-14	Projected FY 14-15
New Debt							
Water Tank Improvements - USDA							
Assumed Years Maturity Assumed Interest Rate % Net Proceeds for Project Costs Cost of Issuance Assumed Outstanding Balance at 6/30 Total Assumed Annual Payments Finance Option A - NBA Related & Fiege T	40 2.63% - ank	3,700,000 50,000 3,750,000 12,200	- - 3,750,000 134,300	3,696,098 152,985	3,640,772 152,985	- 3,583,984 152,985	3,525,695 152,985
Improvements Assumed Years Maturity Assumed Interest Rate % Net Proceeds for Project Costs Cost of Issuance Assumed Outstanding Balance at 6/30 Total Assumed Annual Payments	20 5.00%		1,110,000 - 1,110,000 -	- 1,076,431 89,069	- - 1,041,183 89,069	- - 1,004,183 89,059	- - 965,323 89,068
Finance Option B - Main Replacement and Polybutylene Line Replacements Assumed Years Maturity	20						
Assumed Interest Rate % Net Proceeds for Project Costs Cost of Issuance sumed Outstanding Balance at 6/30 otal Assumed Annual Payments	5.00%						
Proposed Outstanding Balance at 6/30		3,750,000	4,860,000	4,772,529	4,681,955	4,588,167	4,491,018
Proposed Annual Debt Payments		12,200	134,300	242,054	242,054	242,044	242,053
Total Debt - Existing and Proposed		916 91				The state of the s	<u> </u>
Outstanding Balance at 6/30		10,913,000	11,847,000	11,576,529	11,301,955	12,173,167	11,832,518
Total Annual Debt Payments		520,626	626,072	735,159	730,173	729,878	821,839
USDA Reserve Requirement		30,783	57,550	86,269	114,965	143,632	172,266

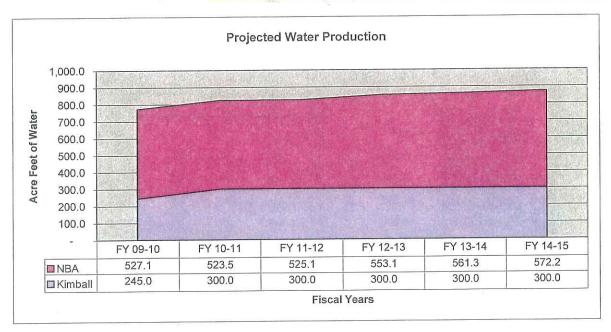
Table 3
Water Production in Acre Feet [1]

	FY 04-05	FY 05-06	FY 06-07	FY 07-08	FY 08-09	Average of Five Years
Sources						
Kimball Reservoir & Treatment						
Plant	358.03	474.38	385.34	256.94	246.33	344.20
% Annual Change		32%	-19%	-33%	-4%	
% of Total Production	48%	54%	47%	32%	31%	43%
North Bay Aqueduct	393.67	397.19	426.60	550.46	554.95	464.57
% Annual Change		1%	7%	29%	1%	
% of Total Production	52%	46%	53%	68%	69%	57%
Total Water Production % Annual Change	751.70	871.57 16%	811.94 -7%	807.40 -1%	801.28 -1%	808.78



Fable 3
Water Production in Acre Feet [1]

		Projection of Water Production						
	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14	FY 14-15		
594	STATEMENT OF THE STATE OF THE S	1	2	3	4	5		
Projection Assumptions								
From Prior Year	770.0	822.8	823.5	825.1	853.1	861.3		
New or Expanded Development Projections at % of Development Estimates [2]	2.15	0.66	1.56	28.02	8.24	10.91		
Conservation Reduction Est		-	; e :	-	-	-		
Total Projected Use	772.1	823.5	825.1	853.1	861.3	872.2		
Sources								
Kimball Reservoir & Treatment Plant	245.0	300.0	300.0	300.0	300.0	300.0		
% Annual Change % of Total Production	-1% 32%	22% 36%	0% 36%	0% 35%	0% 35%	0% 34%		
North Bay Aqueduct	527.1	523.5	525.1	553.1	561.3	572.2		
% Annual Change % of Total Production	-5% 68%	-1% 64%	0% 64%	5% 65%	1% 65%	2% 66%		
Total Water Production % Annual Change	772.1 -4%	823.5 7%	825.1 0%	8 53.1 3%	861.3 1%	872.2 1%		



[1] An acre foot (af) is a typical method of measuring water production. An acre foot of water is equal to 43,560 square feet of water 12" deep, or 325,829 gallons or 435.6 hcf. The volume of water would generate 893 gallons per day for one year.

[2] Projections based on percent of new development projections of acre feet required for connection to water system. See Table

ıble 3a evelopment Projections and Water Service Demand

PROJECTS								la de la la	FISCAL	YEARS	FISCAL YEARS						
Type of Development	# of Projects	Accounts/Units		Estimated Additional Water Capacity Needs (in af) Estimate (Avg)		09-10 Wtr (af)	10-11 Wtr (af)	11-12 Wtr (af)	12-13 Wtr (af)	13-14 Wtr (af)	14-15 Wtr (af)						
了。 1. 数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据		SFR	Trans	Non Res	[4]		ASSESTED S	州以下城市公共	ARESTO FUNCTO		South York, S.H.	FET WAY SELV					
ecuted Memorandums of iderstanding (MOU)	3		28	0	17.06	50%	0.00	0.00	0.00	2.40	5.35	0.00					
40U to be	5	48	362		97.25	79%	0.00	0.00	0.00	40.17	8.08	21.90					
\ Implementation	2	15	66		40.95	63%	0.00	0.00	0.00	22.91	0.00	0.00					
owth Management oplications (GMA) Granted	4	6		3	4.81	63%	1.80	0.00	0.43	0.00	0.00	0.00					
esidential	18	80			48.86	53%	0.00	0.43	0.91	8.25	7.55	6.20					
ommercial	5		6	5	5.71	80%	1.40	0.34	1.82	0.00	0.00	0.00					
eferred Agreements	8	1		7	1.53	100%	1.53	0.00	0.00	0.00	0.00	0.00					
iscellaneous					6.00	100%	1.00	1.00	1.00	1.00	1.00	1.00					
Γotals	45	150	462	15	216.17		5.73	1.77	4.15	74.73	21.98	29.10					
			Prob %		137.46 64%		4.2%	1.3%	3.0%	54.4%	16.0%	21.2%					
dded Accounts	Est	1	32%				Meter Capacity Equivalents										
esidential	150	150	47.7	Assume 5	/8" at Meter Cap	pacity 1.00	2	1	1	26	8	10					
ansient	10	462	3.2	Assume 2	" at Meter Capa	city 8.00	-	-	.=:	16	8	8					
ommercial	15	net	4.8	Assume 1	.5" at Meter Cap	pacity 5.00) 	-	-	15	5	5					
otal Accounts with est of eter size and use			n ≅ 1				2	1	1	57	21	23					
			Prob %	Use %			2	3	4	61	82	105					
dded Annual Consumptic	n	af	32%	75%	In hcf												
esidential UnitsX .428		64.20	20.41	15.31	6,669		278	86	202	3,625	1,066	1,412					
ansient Units X .17		78.54	24.97	18.729	8,158		340	105	247	4,435	1,304	1,727					
ommercial - net		73.43	23.35	17.511	7,628		318	98	231	4,147	1,219	1,615					
otal		216,17	68.73	51.549	22,455		936	289	679	12,207	3,590	4,754					
st Added Consumption in h					22,455 51.55		936 2.15	289 0.66	679 1.56	12,207 28.02	3,590 8.24	4,754 10.91					

[]] The annual acre feet (af) of Water need or Wastewater treatment capacity is based on size and pe of development. An acre foot of water is the equivalent of one acre of land (43,560 suare feet) ith water 1 foot deep, or 325,829 gallons or 435.6 hcf