

Water Enterprise Fund

The Water *Enterprise Fund* includes revenue, expenses, assets, water rates, water loans, and the cost of all needed improvements for the water system in Lemoore.

Other enterprise (or proprietary) funds are Wastewater, Solid Waste, and Golf Course.

These are business operations within City Operations.

The *General Fund* and all other Governmental Funds are separate, funded primarily by tax revenue.

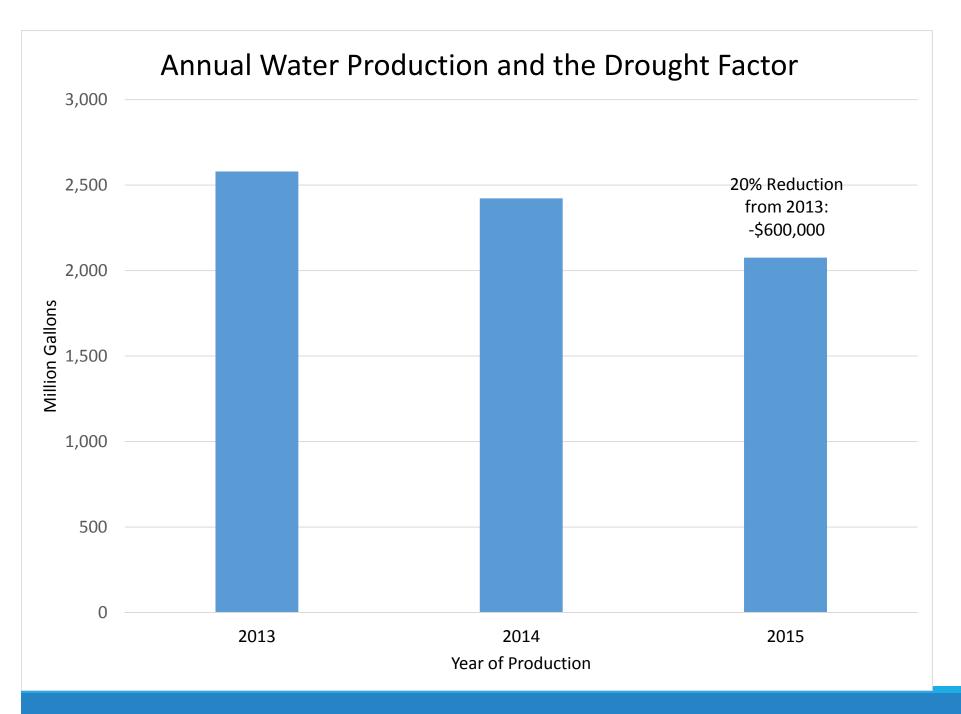
Cost of Service Study (Prop. 218)

Rules:

- 1. May not charge a customer class more than it costs to serve them.
- 2. May not transfer revenue from an enterprise fund to another fund, unless there is a justified benefit to the enterprise fund.
- 3. May not charge tiered rates, unless you can justify costs associated with the higher tiered rates.

The Work

- Evaluate existing rates, revenue, expense, and metering efficiency
- Determine added cost for water system improvements
- 3. Determine customer classes
- 4. Community education and involvement
- 5. Today:
 - Allocate operating costs to each customer class
 - Present proposed new rates



Less Costs More

The numerous costs to operate the water system are mostly fixed regardless of how much water is sold.

This means when *less* water is sold, each unit of water must *costs more* in order to cover the fixed costs.

This effect is magnified when fixed costs are increasing at the same time volumes are decreasing.

7.48 gallons = 1 Cubic Foot

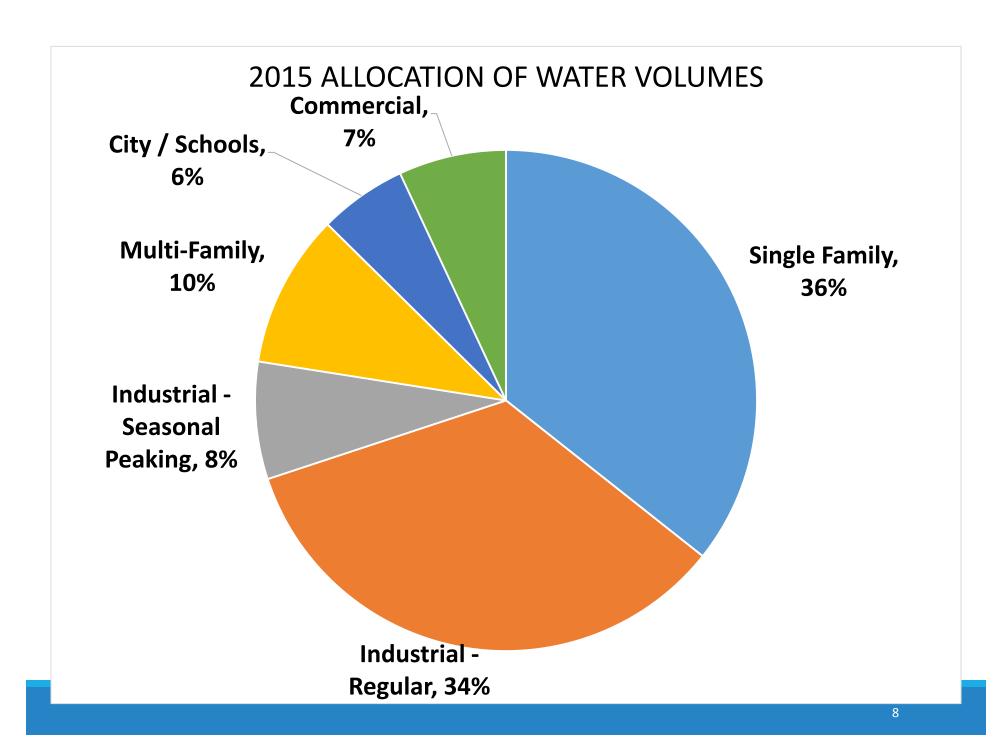
Lemoore Billing Units:

1 CCF "centum cubic feet"

100 cubic feet

1 HCF (Hundred Cubic Feet)

748 gallons



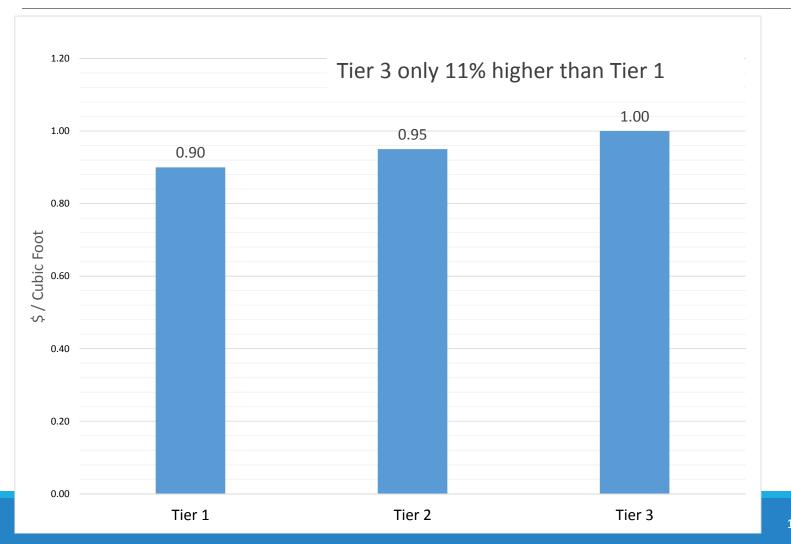
Existing Rate: Single Family

- 1. Minimum Charge: \$13.20 per month
 - *Includes 700 cubic feet (5,236 gallons)*
- 2. Next 2,800 cu ft. (20,944 gal): \$0.90 per hundred cu ft.
- 3. Up to 5,600 cu ft. (20,944 gal): \$0.95 per HCF
- 4. Above 5,600 cu ft. (47,124 gal): \$1.00 per HCF

(City of Lemoore Resolution 2007-51)

Lemoore's August 2015 Single Family Average was 16,200 gallons

Existing Price Tiers



Single Family Summer Month: 15,000 gallons (Typical)

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Minimum Monthly $13.20 Usage above 700 cu ft. $11.74 Total $24.94
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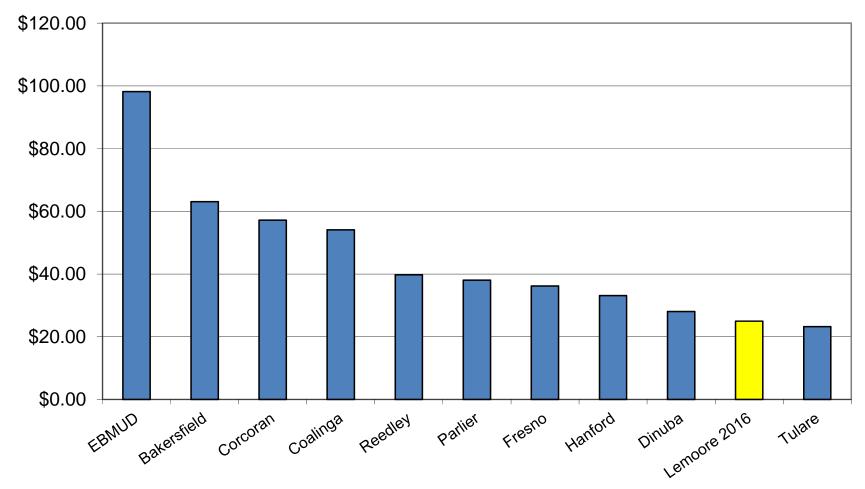
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Cost for 15,000 gallons:

15,000 / 7.48 = 2,005 cu ft.

2005 - 700 = 1,305 cu ft.

13.05 HCF x $0.90 per HCF = $11.74
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Single Family Water Cost Comparison Summer Typical: 15,000 gallons



Lemoore's 2015 August Average was 16,200 gallons

Existing Rates: Apartments and Mobile Home Parks

- 1. Fixed monthly cost <u>per dwelling unit</u>: \$6.55 Includes 300 cubic feet <u>per unit</u>
- 2. Next 1,200 cubic feet per unit: \$0.90
- 3. Next 1,200 cubic feet per unit: \$0.95
- 4. Above 2,400 cubic feet per unit: \$1.00

Existing Rates: Other Customers

Minimum monthly charge of \$13.20 including a fixed quantity of base water

Usage charge associated with three tiered rates

Tier 1: \$0.90

Tier 2: \$0.95

Tier 3: \$1.00

(Approximately 60 customers left on flat rates)

LEMOORE WATER ENTERPRISE FUND

HISTORICAL REVENUE AND EXPENDITURES

			IN PROGRESS		
		FY2013	FY 2014	FY 2015	FY 2016
Or	perating Revenues:				
	Rate-Based Revenues	\$3,952,379	\$4,100,305	\$3,503,000	\$3,500,000
	Late Fees, Svc Charges, Collections	\$75,197	\$75,568	\$71,666	\$75,00 0
	Installation Charges	\$6,962	\$6,349	\$27,923	\$10,000
	Interest Income	5,300	11,887	26,965	12,000
То	tal Revenues	4,039,838	4,194,109	3,629,554	3,597,000
Ok	peration & Maintenance Expenses:				
	Electricity - Pumping	\$998,000	\$958,824	\$720,754	\$550,000
	Personnel	\$650,000	\$655,957	\$634,467	\$730,000
	Contract Services	\$279,177	\$227,046	\$214,603	\$232,000
	Chemicals	\$361,984	\$435,376	\$346,317	\$400,000
	Parts and Supplies	\$127,774	\$120,132	\$179,910	\$300,000
	Repair, Maint, and Other	\$162,000	\$218,062	\$323,656	\$330,000
	New O&M for Pretreatment and Filtering	\$0	\$0	\$0	\$0
	Customer Services and Billing	\$269,528	\$275,143	\$270,000	\$270,000
	Gen Government Overhead	\$742,000	\$406,268	\$530,000	\$530,000
	Annual Debt Service Solar	\$0	\$163,339	\$573,630	\$430,000
То	tal Adjusted Expenses*	\$3,590,463	\$3,460,147	\$3,793,337	\$3,772,000
Ne	et Revenue From Water Operations	\$449,375	\$733,962	(\$163,783)	(\$175,000)
* E	excludes depreciation				

Existing Debt and Available Cash

- One loan outstanding to Pinnacle Public Finance in the amount of \$7,068,000 associated with Solar Power installations
- Water Enterprise owes Sewer Enterprise \$1.9 million inter-fund loan
- Payments are \$430,000 per year (Water's 75% share),
 which is offset by electricity savings for water
- Current Assets are about \$4 million. Adequate.

Nathan Olson

Public Works Director

City of Lemoore

North Well Line Replacement







North Well Line

\$5,950,000 CIP







TTHM Compliance Project Treatment Areas

Current Locations recommended

- >40 G Street (treats North Well Field)
- > Well Site 7 (treats wells 7, 13, and 14)
- >Well Site 10
- >Well Site 11
- >Well Site 12

Future Sites

➤ New South Well

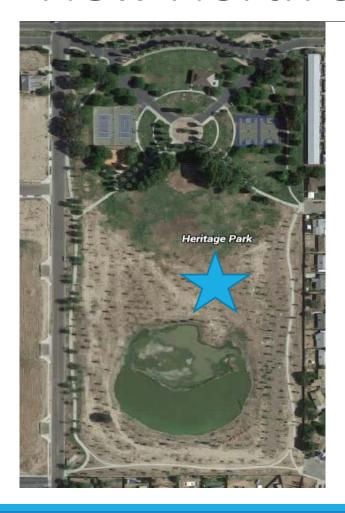
New South Side Well



- Provides addition water capacity
- Assists in correcting low pressure situation to the south of 198.
- New well will replace Well 8 that collapsed in 2015.

\$3,525,000 CIP

New North Side Well



Additional water capacity and helps support peak demand

\$4,056,000 CIP

Additional Tank Well 7



- ➤ Provides additional water capacity and helps support peak demand.
- Provides additional 1 million gallon storage needed for continued growth of west side.

\$1,100,000 CIP

Summary Water CIP Costs

CIP Project	Cost
North Well Transmission Line	\$5,950,000
TTHM Compliance	\$18,379,500
New South Side Well	\$3,525,000
New North Side Well	\$4,056,000
Additional Tank Well 7	\$1,100,000
Total	\$33,010,500

Misc. projects (20) total additional \$3,539,300 to 5 year CIP

Major Projects and Repair

- Most significant cost is filtering of ALL water
- Next is pipeline replacement, well and tank additions
- This level of water system expenditure in Lemoore is unprecedented

Annualized Cost for Improvements, "Ballpark"?

Annual payments for bond finance: \$1.9 million

Maintenance and operations for filters: \$2.5 million

Total, per year \$4.4 million

Compare to existing total expenses: \$4.0 million

The added costs may exceed the total of existing expenses!

LEMOORE WATER ENTERPRISE FUND

PRELIMINARY AS OF APRIL 18, 2016: HISTORICAL AND PROJECTED REVENUE AND EXPENDITURES

		PROJECTED			
		1	2	3	4
	FY 2016	<u>FY2017</u>	<u>FY2018</u>	FY2019	FY2020
Operating Revenues:		30%	30%	30%	30%
Rate-Based Revenues	\$3,500,000	\$4,550,000	\$5,915,000	\$7,689,500	\$9,996,350
Late Fees, Svc Charges, Collections	75,000	75,000	75,000	75,000	75,000
Installation Charges	10,000	10,000	10,000	10,000	10,000
Total Operating Revenues	\$3,585,000	\$4,635,000	\$6,000,000	\$7,774,500	\$10,081,350
Non-Operating Revenues Interest Income Total Revenues					
Interest Income	12,000	12,000	12,000	12,000	12,000
Total Revenues	\$3,597,000	\$4,647,000	\$6,012,000	\$7,786,500	\$10,093,350

LEMOORE WATER ENTERPRISE FUND

PRELIMINARY AS OF APRIL 18, 2016: HISTORICAL AND PROJECTED REVENUE AND EXPENDITURES

		PROJECTED			
		1	2	3	4
	FY 2016	FY2017	FY2018	FY2019	FY2020
Operation & Maintenance Expenses:					
Electricity - Pumping	\$550,000	\$569,000	\$589,000	\$610,000	\$631,000
Personnel	730,000	900,000	918,000	936,000	955,000
Electricity - Pumping Personnel Contract Services Chemicals Parts and Supples	232,000	237,000	242,000	247,000	252,000
Chemicals	400,000	408,000	416,000	424,000	432,000
Parts and Supples	300,000	306,000	312,000	318,000	324,000
Repair, Marnt, and Other	330,000	337,000	344,000	351,000	358,00
New O&M for Pretreatment and Filtering			500,000	1,000,000	2,500,000
Customer Services and Billing	270,000	270,000	270,000	270,000	270,00
Gen Government Overhead	530,000	530,000	530,000	530,000	530,000
Total Adjusted Expenses	\$3,342,000	\$3,557,000	\$4,121,000	\$4,686,000	\$6,252,000
Net Revenue From Water Operations	\$255,000	\$1,090,000	\$1,891,000	\$3,100,500	\$3,841,350
Annual Debt Service Solar	\$430,000	\$430,000	\$430,000	\$430,000	\$430,000
Annual Debt Service (\$30 M)			941,952	1,826,800	1,986,150
Total Debt Service	\$430,000	\$430,000	\$1,371,952	\$2,256,800	\$2,416,150
Debt Service Coverage Ratio			1.38	1.37	1.59
Net Revenues after Debt Service	(\$175,000)	\$660,000	\$519,048	\$843,700	\$1,425, 20 6
Pay-as-go available for Capital Projects		(700,000)	(700,000)	(700,000)	(700,000
Fund Balance	\$5,261,217	\$5,221,217	\$5,040,265	\$5,183,965	\$5,909,16

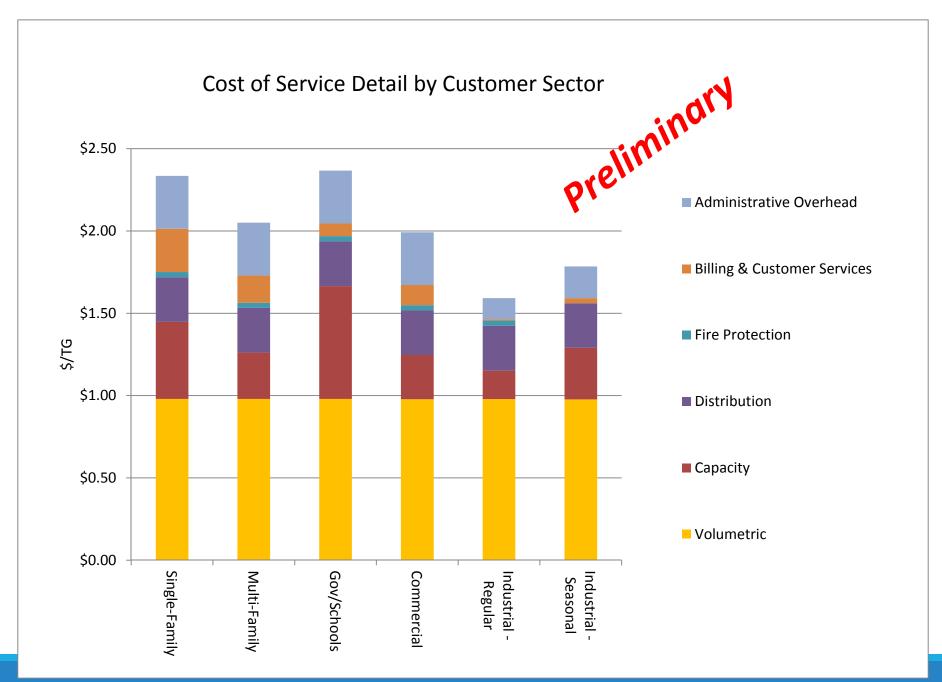
Water Enterprise Revenue Requirement Allocation Table FOR JANUARY 1, 2017 Preliminary

Cost Component (\$/yr) Volumetric Capacity Distribution	ON Total	Single-Family	Multi-Family	Gov/Schools	Commercial	Industrial - Regular	Industrial - Seasonal
Volumetric	\$2,114,867	\$754,312	\$209,733	\$119,491	\$146,725	\$724,428	\$160,177
Capacity	\$723,617	360,056	60,160	83,696	40,251	128,017	51,436
Distribution	\$585,867	208,962	58,101	33,102	40,646	200,683	44,373
Fire Protection	\$68,650	24,485	6,808	3,879	4,763	23,515	5,199
Customer Services & Billing	\$277,000	202,479	35,249	9,335	18,349	6,438	5,150
Administrative Overhead	\$530,000	247,371	68,780	39,186	48,117	95,028	31,517
Total Revenue Requirement	4,300,000	1,797,665	438,831	288,690	298,851	1,178,110	297,853
Revenues at Present Rates	3,369,000	1,471,000	402,000	163,000	231,000	905,000	197,000
Balance/(Deficency) of Funds	(931,000)	(326,665)	(36,831)	(125,690)	(67,851)	(273,110)	(100,853)
Summary Statistics							
Treated Water Sales (TG)	2,160,000	770,000	214,000	122,000	150,000	740,000	164,000
Cost of Service (\$/TG)	1.99	2.33	2.05	2.37	1.99	1.59	1.82
Present Average Rate (\$/TG)	1.56	1.91	1.88	1.34	1.54	1.22	1.20
Present Average Rate (\$/HCF)	1.17	1.43	1.41	1.00	1.15	0.91	0.90
Change (%)	28%	22%	9%	77%	29%	30%	51%

New Rates: Variables

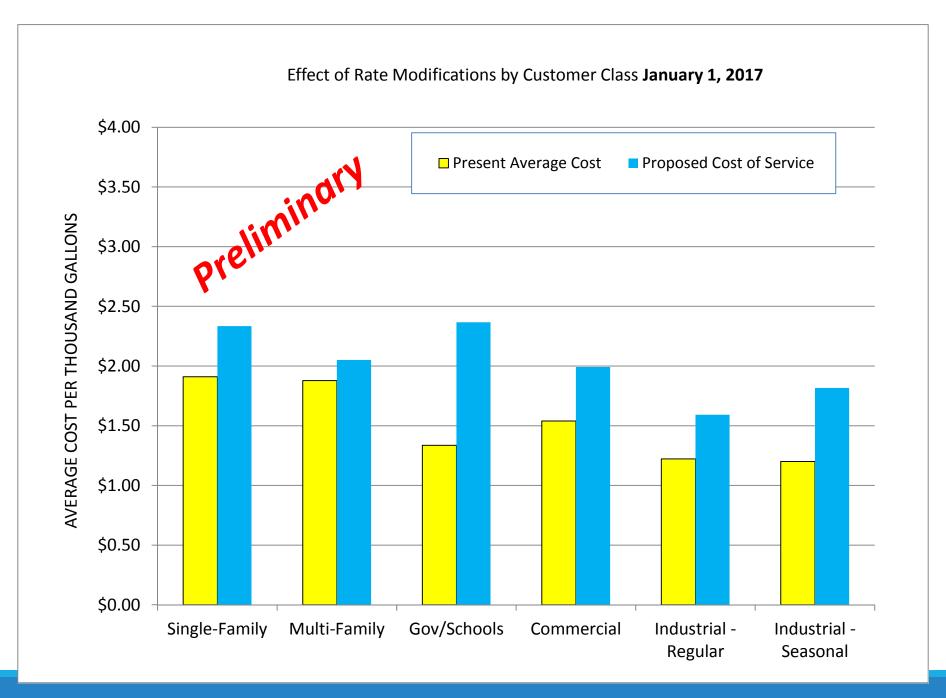
Largest variables between customer classes:

- 1. Billing & Customer services (residential)
- 2. Peaking cost (residential, schools, seasonal)



New Rate Structure

- 1. Volumetric component adjusted to customer class
- 2. Fixed monthly dependent on meter size
- 3. Combination of volumetric and fixed monthly approximates customer class cost of service

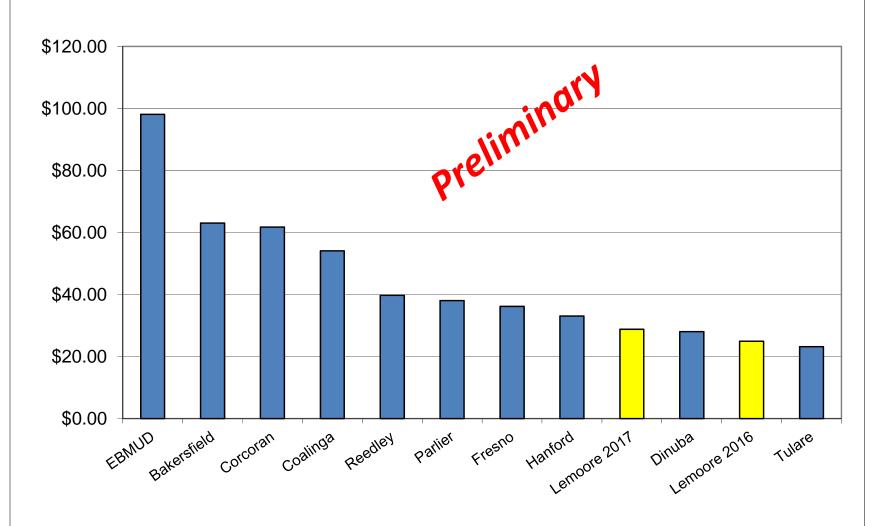


FOR EVALUATION	City of Lemoore Water Rates and Charges				
Average Increase all classes	28%	30%	30%	30%	
	Jan 1, 2017	Jan 1, 2018	Jan 1, 2019	Jan 1, 2019	
Volumetric Rate For All Water	er				
	\$/HCF	\$/HCF	\$/HCF	\$/HCF	
Residential Single Family	\$0.79	\$1.00	\$1.30	\$1.64	
Multi Family Government & Schools Commercial Industrial - Regular	\$0.87	\$1.09	\$1.39	\$1.77	
Government & Schools	\$1.19	\$1.62	\$2.19	\$2.92	
Commercial	\$1.20	\$1.53	\$1.96	\$2.52	
Industrial - Regular	\$1.15	\$1.52	\$2.00	\$2.62	
Industrial - Seasonal Peak	\$1.19	\$1.59	\$2.10	\$2.76	

FOR EVALUATION City of Lemoore Water Rates and Charges

Average Increase all classes	28%	30%	30%	30%		
Fixed Monthly Charges Base						
All Residential Single Family	\$13	\$17	\$22	\$29		
All other up to 1.5"	\$23	\$30	\$39	\$51		
2" up to 2.5"	\$74	\$96	\$125	\$163		
3" 4" 6" 8" Prelimi	\$138	\$179	\$233	\$303		
4"	\$230	\$299	\$389	\$506		
6"	\$460	\$598	\$777	\$1,010		
8" P	\$736	\$957	\$1,244	\$1,617		
10"	\$1,058	\$1,375	\$1,788	\$2,324		
12"	\$1,978	\$2,571	\$3,342	\$4,345		
Flat Rates for Non Metered Customers (\$/Mo)						
Multi Family, Per Unit	\$23	\$30	\$39	\$51		
Business and Retail	\$26	\$34	\$44	\$57		

Single Family Water Cost Comparison Summer Typical: 15,000 gallons (2,005 cubic feet)



Lemoore Single Family Homes: Water Cost Increases (Potential)

Cost Detail for 15,000 gallons (2,005 cubic feet)

	Fixed Monthly	Usage	Total	Increase			
2016	\$13	\$12	\$25				
2017	\$13	\$16	\$29	16%			
2018	\$17	\$20	\$37	28%			
2019	\$22	\$26	\$48	30%			
2020	\$29	\$33	\$62	29%			
2020 \$29 \$33 sammarY \$62 29%							

Review

- 1. Conservation has reduced revenue
- 2. Metering successful, almost done
- 3. Existing rates nearly lowest in the valley
- 4. Water enterprise debt is small and fund balance adequate
- 5. SIGNIFICANT costs coming for system improvements
- 6. Recommend gradual rate increases over several years

Proposed Schedule

March 15 Workshop #1: Introduction. (Done)

April 19 Workshop #2: Present new rates and update

June 7 City Council: Approve issuance of Prop 218 Notice

August 16 City Council: Rate Hearing

Jan 1, 2017 New Rates in effect

Next Steps

- City Council Feedback
- Information and coordination with our customers
- Pilot testing of filtering approach
- Fine tune economic model
- Approve 218 notice at June City Council meeting
- Bond funding first steps

Community Involvement

Those interested in participating in a citizen advisor group or if folks simply have questions:

Janie Venegas City Clerk (559) 924-6705

Email: cityclerk@lemoore.com