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Exploring Year 2017 Residential Water and Power Bills (revised)

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Exploring Residential Water & Power Bills

Purpose - Understanding Usage and Bills of Undiscounted Regular Customers versus Low Income and Lifeline Customers

- **What are we exploring?**

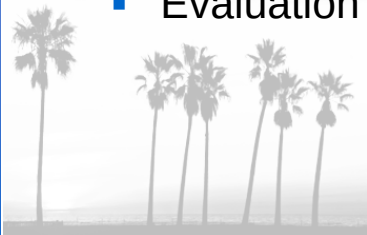
- Calendar year 2017 median customer usage and billing
- Concentrated focus on a Los Angeles low-income Zip Code area selected from the 2016 American Community Survey
- Insights from comparing undiscounted versus discounted usage, using an industry standard measure

- **What is special?**

- Information is from a database that includes and excludes adjustments up to a set point in time.
 - Cancelled bills and corrected bills may be included or excluded, depending on when they happened.

- **What are the implications?**

- Conservation targets and DWP Investments
- Evaluation of low income and lifeline credits



2017 Power Bills Citywide

Residential Power Class R- 1A	Customer Accounts	Median (Typical) Monthly Bill	
		kwh	Charge
Lifeline	115,089	277	\$ 19.58
Low Income*	197,898	266	\$ 26.82
Regular	1,235,454	302	\$ 47.28
Total Class	1,548,440	296	\$ 42.60

* Standard deviation is \$73 per month



Lifeline and Low Income Discount Accounts

☐ Lifeline Customers

- Eligibility: low income and senior (62+ years), or certified disabled
- Citywide DWP has ~115,000 Lifeline customers
- For this exercise, added to Lifeline data was a small amount of physician certified allowances or medical equipment discounts

☐ Low Income Residential Customers

- Eligibility: Low income
- Citywide DWP has ~197,900 low income customers

☐ Eligible renters using water from a landlord receive water-related discounts on their DWP power bills



2017 Power Bills in a Low Income Zip Code

Residential Power Class R- 1A	Customer Accounts	Median (Typical) Monthly Bill	
		kwh	Charge
Lifeline	1,484	208	\$ 8.83
Low Income*	3,305	233	\$ 21.43
Regular	8,231	225	\$ 34.94
Total Class	13,021	225	\$ 29.21

* Standard deviation is \$37 per month



2017 Residential Water Bills Citywide

Single Dwelling Residential Water Class A	Customer Accounts	Median (Typical) Monthly Bill	
		HCF	Charge
Lifeline	34,952	7.5	\$ 31.65
Low Income*	44,386	9.0	\$ 44.67
Regular	447,057	9.0	\$ 51.80
Total Class	526,395	8.9	\$ 49.86

* Standard deviation is \$77 per month



2017 Water Bills in a Low Income Zip Code

Single Dwelling Residential Water Class A	Customer Accounts	Median (Typical) Monthly Bill	
		HCF	Charge
Lifeline	274	6.5	\$ 26.09
Low Income*	434	8.0	\$ 37.19
Regular	1,580	6.5	\$ 36.86
Total Class	2,288	6.5	\$ 35.35

* Standard deviation is \$54 per month



2017 Combined Water & Power Bills

Residential Class	Median (Typical) Monthly Bill		
	Water	Power	Combined [*]
Sample Low Income Zip Code			
Lifeline	\$26	\$9	\$35
Low Income	\$37	\$21	\$59
Regular	\$37	\$35	\$72
Total Class	\$35	\$29	\$65
Citywide			
Lifeline	\$32	\$20	\$51
Low Income	\$45	\$27	\$71
Regular	\$52	\$47	\$99
Total Class	\$50	\$43	\$92

* Medians on water and power usage are added for illustration, but this is technically inexact.

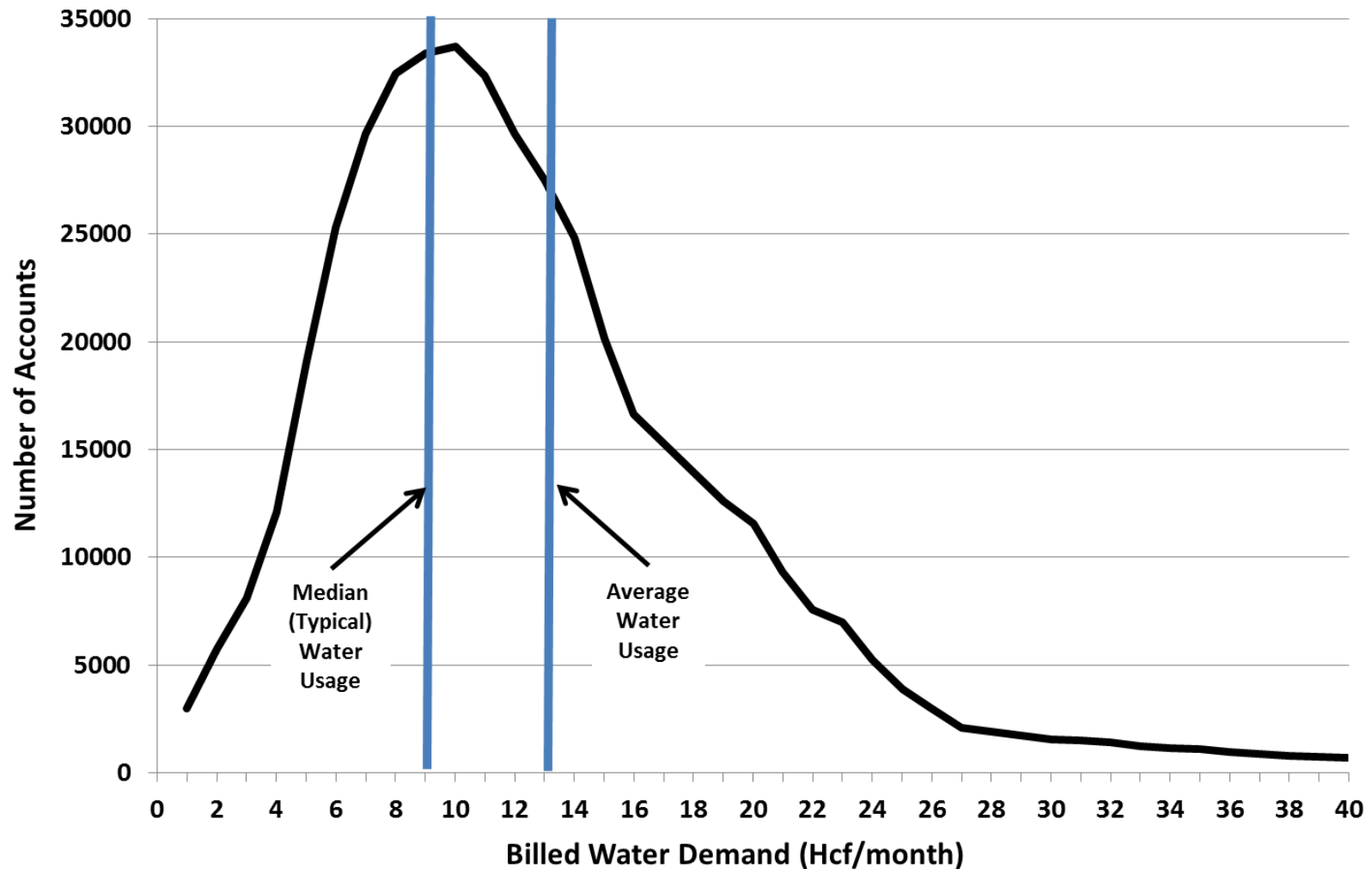


Appendix 2017

Zip Code	Residential Power Class R-1A	Power Customers	Median Usage (kwh/mo)	Median Bill (\$/mo)	Zip Code	Single Dwelling Residential Water Class A	Water Customers	Median Usage (HCF/mo)	Median Bill (\$/mo)	Zip Code	Single Dwelling Residential Class	Water Customers	Combined Median Bill (\$/mo)
90001	Lifeline	300	301	\$ 24.25	90001	Lifeline	150	5.0	\$ 18.61	90001	Lifeline	150	\$ 42.86
	Low Income	693	280	\$ 29.91		Low Income	240	8.5	\$ 42.67		Low Income	240	\$ 72.58
	Regular	1,762	271	\$ 41.69		Regular	701	6.5	\$ 38.05		Regular	701	\$ 79.74
90002	Lifeline	1,406	252	\$ 15.54	90002	Lifeline	564	5.5	\$ 21.35	90002	Lifeline	564	\$ 36.89
	Low Income	3,146	266	\$ 27.16		Low Income	1,206	8.5	\$ 39.64		Low Income	1,206	\$ 66.80
	Regular	6,101	270	\$ 41.45		Regular	3,346	7.0	\$ 39.78		Regular	3,346	\$ 81.23
90011	Lifeline	2,087	260	\$ 16.44	90011	Lifeline	664	7.0	\$ 28.86	90011	Lifeline	664	\$ 45.30
	Low Income	8,414	234	\$ 20.87		Low Income	1,623	8.5	\$ 41.85		Low Income	1,623	\$ 62.71
	Regular	15,835	235	\$ 36.15		Regular	3,771	8.0	\$ 44.21		Regular	3,771	\$ 80.36
90021	Lifeline	13	328	\$ 26.77	90021	Lifeline	1	7.5	\$ 30.30	90021	Lifeline	1	\$ 57.07
	Low Income	54	273	\$ 27.72		Low Income	9	7.5	\$ 34.97		Low Income	9	\$ 62.69
	Regular	656	311	\$ 48.31		Regular	15	3.0	\$ 17.68		Regular	15	\$ 65.99
90033	Lifeline	1,484	208	\$ 8.83	90033	Lifeline	274	6.5	\$ 26.09	90033	Lifeline	274	\$ 34.92
	Low Income	3,305	233	\$ 21.43		Low Income	434	8.0	\$ 37.19		Low Income	434	\$ 58.62
	Regular	8,231	225	\$ 34.94		Regular	1,580	6.5	\$ 36.86		Regular	1,580	\$ 71.80
90037	Lifeline	2,161	223	\$ 10.62	90037	Lifeline	497	6.5	\$ 27.26	90037	Lifeline	497	\$ 37.88
	Low Income	5,689	221	\$ 19.38		Low Income	967	9.0	\$ 43.85		Low Income	967	\$ 63.23
	Regular	11,678	221	\$ 34.35		Regular	2,609	7.5	\$ 42.54		Regular	2,609	\$ 76.88
90044	Lifeline	2,734	264	\$ 16.97	90044	Lifeline	897	6.0	\$ 23.31	90044	Lifeline	897	\$ 40.27
	Low Income	6,269	230	\$ 21.01		Low Income	1,505	8.0	\$ 38.19		Low Income	1,505	\$ 59.20
	Regular	13,400	236	\$ 36.63		Regular	4,801	6.5	\$ 36.40		Regular	4,801	\$ 73.03
90059	Lifeline	848	273	\$ 18.07	90059	Lifeline	360	6.5	\$ 24.54	90059	Lifeline	360	\$ 42.60
	Low Income	2,874	245	\$ 23.91		Low Income	1,027	8.5	\$ 40.43		Low Income	1,027	\$ 64.34
	Regular	4,507	260	\$ 40.01		Regular	2,740	7.0	\$ 39.69		Regular	2,740	\$ 79.69
Other	Lifeline	104,056	280	\$ 20.11	Other	Lifeline	31,545	7.5	\$ 32.27	Other	Lifeline	31,545	\$ 52.38
	Low Income	167,455	271	\$ 27.71		Low Income	37,375	9.0	\$ 45.59		Low Income	37,375	\$ 73.29
	Regular	1,173,283	306	\$ 47.85		Regular	427,494	9.0	\$ 52.36		Regular	427,494	\$ 100.22
Citywide	Lifeline	115,089	277	\$ 19.58	Citywide	Lifeline	34,952	7.5	\$ 31.65	Citywide	Lifeline	34,952	\$ 51.23
	Low Income	197,898	266	\$ 26.82		Low Income	44,386	9.0	\$ 44.67		Low Income	44,386	\$ 71.48
	Regular	1,235,454	302	\$ 47.28		Regular	447,057	9.0	\$ 51.80		Regular	447,057	\$ 99.07
	Total R1A Class	1,548,440	296	\$ 42.60		Total SDR Class	526,395	8.9	\$ 49.86		Total	526,395	\$ 92.46



Appendix: Illustrative Residential Water Usage Frequency



Appendix: Illustrative Residential Power Usage Frequency

