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Exploring Year 2018 Residential Water and Power Bills

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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?**

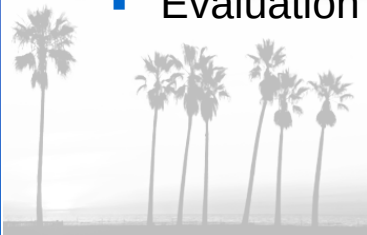
- Calendar year 2018 median customer usage and billing
- Concentrated focus on a Los Angeles low-income Zip Code area selected from the 2016 American Community Survey
- Insights from comparing undiscounted versus discounted usage, using an industry standard measure

- **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



2018 Power Bills Citywide

Residential Power Class R- 1A	Customer Accounts	Median (Typical) Monthly Bill	
		kwh	Charge
Lifeline	108,942	276	\$ 23.51
Low Income*	166,605	265	\$ 30.33
Regular	1,213,172	297	\$ 50.56
Total Class	1,488,720	292	\$ 46.31

* Standard deviation is \$74 per month



Lifeline and Low Income Discount Accounts

☐ Lifeline Customers

- Eligibility: low income and senior (62+ years), or certified disabled
- Citywide DWP has ~108,900 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 ~166,600 low income customers

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



2018 Power Bills in a Low Income Zip Code

Residential Power Class R- 1A	Customer Accounts	Median (Typical) Monthly Bill	
		kwh	Charge
Lifeline	1,571	202	\$ 10.15
Low Income*	3,126	221	\$ 22.07
Regular	8,990	218	\$ 36.66
Total Class	13,687	217	\$ 30.93

* Standard deviation is \$47 per month



2018 Residential Water Bills Citywide

Single Dwelling Residential Water Class A	Customer Accounts	Median (Typical) Monthly Bill	
		HCF	Charge
Lifeline	38,801	8.0	\$ 38.88
Low Income*	33,786	9.0	\$ 52.06
Regular	444,605	9.5	\$ 62.95
Total Class	517,192	9.4	\$ 60.43

* Standard deviation is \$109 per month



2018 Water Bills in a Low Income Zip Code

Single Dwelling Residential Water Class A	Customer Accounts	Median (Typical) Monthly Bill	
		HCF	Charge
Lifeline	280	6.5	\$ 29.39
Low Income*	400	7.5	\$ 39.68
Regular	1,686	6.5	\$ 40.33
Total Class	2,365	6.5	\$ 37.87

* Standard deviation is \$64 per month



2018 Combined Water & Power Bills

Residential Class	Median (Typical) Monthly Bill		
	Water	Power	Combined [*]
Sample Low Income Zip Code			
Lifeline	\$29	\$10	\$40
Low Income	\$40	\$22	\$62
Regular	\$40	\$37	\$77
Total Class	\$38	\$31	\$69
Citywide			
Lifeline	\$39	\$24	\$62
Low Income	\$52	\$30	\$82
Regular	\$63	\$51	\$114
Total Class	\$60	\$46	\$107

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

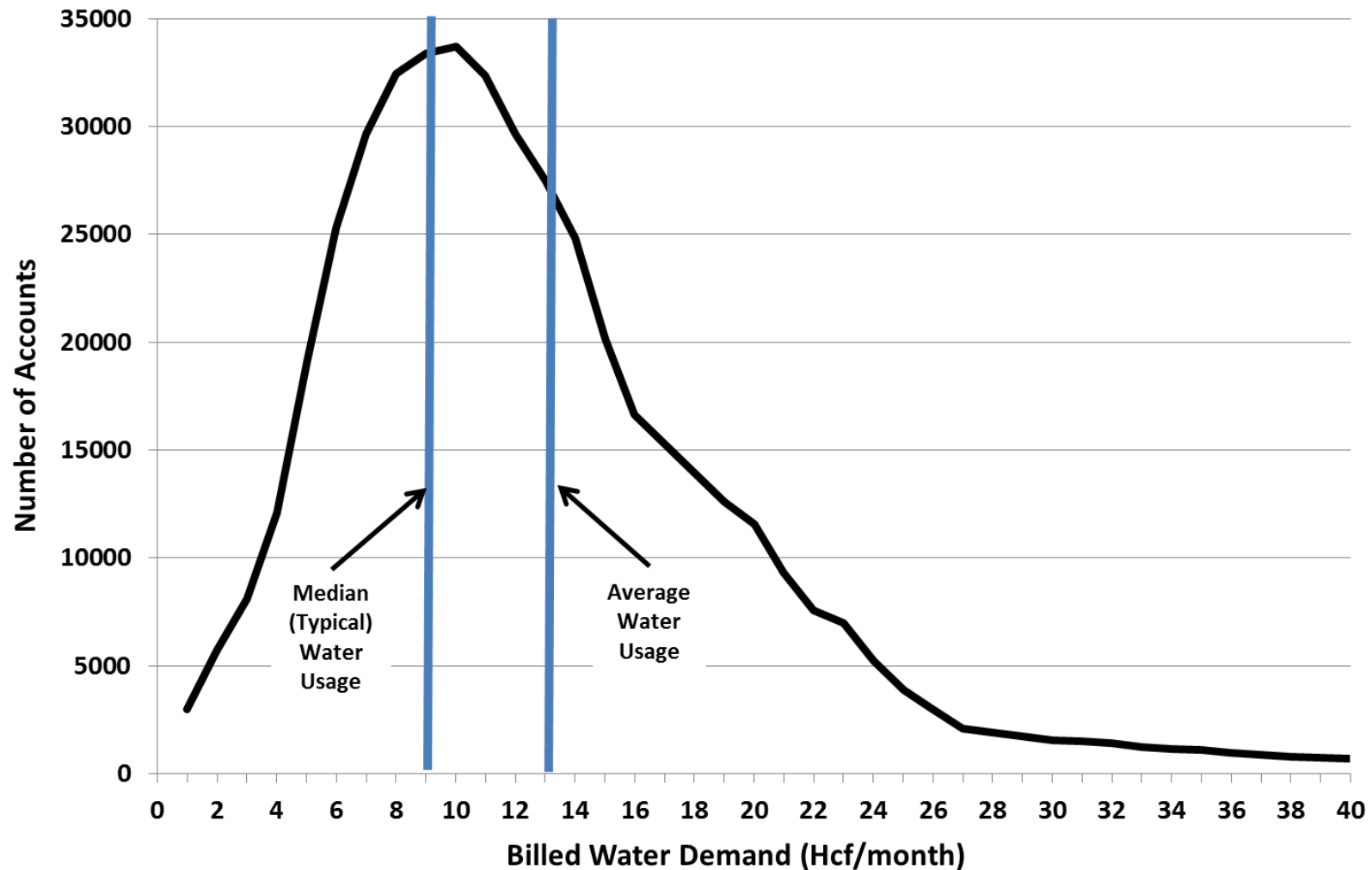


Appendix 2018

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	381	268	\$ 21.44	90001	Lifeline	155	5.5	\$ 23.56	90001	Lifeline	155	\$ 45.00
	Low Income	792	248	\$ 26.43		Low Income	243	8.5	\$ 43.83		Low Income	243	\$ 70.26
	Regular	2,162	254	\$ 41.76		Regular	771	7.0	\$ 43.54		Regular	771	\$ 85.30
90002	Lifeline	1,234	267	\$ 21.50	90002	Lifeline	512	6.5	\$ 27.33	90002	Lifeline	512	\$ 48.83
	Low Income	2,410	286	\$ 34.05		Low Income	1,031	8.5	\$ 46.93		Low Income	1,031	\$ 80.98
	Regular	5,850	287	\$ 47.63		Regular	3,311	7.5	\$ 47.33		Regular	3,311	\$ 94.96
90011	Lifeline	2,118	251	\$ 18.24	90011	Lifeline	696	7.0	\$ 32.70	90011	Lifeline	696	\$ 50.94
	Low Income	7,493	224	\$ 22.08		Low Income	1,492	8.5	\$ 44.93		Low Income	1,492	\$ 67.01
	Regular	16,737	232	\$ 38.53		Regular	4,082	8.0	\$ 49.63		Regular	4,082	\$ 88.15
90021	Lifeline	12	310	\$ 27.64	90021	Lifeline	1	7.5	\$ 34.62	90021	Lifeline	1	\$ 62.26
	Low Income	52	259	\$ 27.91		Low Income	7	7.5	\$ 35.27		Low Income	7	\$ 63.17
	Regular	642	294	\$ 49.68		Regular	22	1.0	\$ 6.21		Regular	22	\$ 55.89
90033	Lifeline	1,571	202	\$ 10.15	90033	Lifeline	280	6.5	\$ 29.39	90033	Lifeline	280	\$ 39.53
	Low Income	3,126	221	\$ 22.07		Low Income	400	7.5	\$ 39.68		Low Income	400	\$ 61.74
	Regular	8,990	218	\$ 36.66		Regular	1,686	6.5	\$ 40.33		Regular	1,686	\$ 76.99
90037	Lifeline	2,012	226	\$ 14.01	90037	Lifeline	467	7.0	\$ 32.70	90037	Lifeline	467	\$ 46.71
	Low Income	4,631	225	\$ 22.81		Low Income	828	9.0	\$ 49.06		Low Income	828	\$ 71.86
	Regular	11,868	226	\$ 37.87		Regular	2,730	7.5	\$ 47.08		Regular	2,730	\$ 84.95
90044	Lifeline	2,433	277	\$ 22.79	90044	Lifeline	855	6.5	\$ 28.33	90044	Lifeline	855	\$ 51.12
	Low Income	4,699	251	\$ 27.88		Low Income	1,319	8.0	\$ 43.92		Low Income	1,319	\$ 71.79
	Regular	12,993	248	\$ 41.34		Regular	4,889	7.0	\$ 41.15		Regular	4,889	\$ 82.49
90059	Lifeline	740	286	\$ 23.88	90059	Lifeline	308	7.5	\$ 35.75	90059	Lifeline	308	\$ 59.63
	Low Income	2,109	267	\$ 30.48		Low Income	795	9.0	\$ 48.18		Low Income	795	\$ 78.66
	Regular	4,420	275	\$ 45.78		Regular	2,662	7.5	\$ 46.76		Regular	2,662	\$ 92.53
Other	Lifeline	98,441	278	\$ 24.08	Other	Lifeline	35,528	8.0	\$ 39.67	Other	Lifeline	35,528	\$ 63.75
	Low Income	141,293	270	\$ 31.24		Low Income	27,671	9.0	\$ 53.48		Low Income	27,671	\$ 84.72
	Regular	1,149,511	300	\$ 51.12		Regular	424,453	9.5	\$ 63.78		Regular	424,453	\$ 114.90
Citywide	Lifeline	108,942	276	\$ 23.51	Citywide	Lifeline	38,801	8.0	\$ 38.88	Citywide	Lifeline	38,801	\$ 62.39
	Low Income	166,605	265	\$ 30.33		Low Income	33,786	9.0	\$ 52.06		Low Income	33,786	\$ 82.39
	Regular	1,213,172	297	\$ 50.56		Regular	444,605	9.5	\$ 62.95		Regular	444,605	\$ 113.50
	Total R1A Class	1,488,720	292	\$ 46.31		Total SDR Class	517,192	9.4	\$ 60.43		Total	517,192	\$ 106.74



Appendix: Illustrative Residential Water Usage Frequency



Appendix: Illustrative Residential Power Usage Frequency

