

Observed	2016 Ranked	2018 Ranked	NDD- ADD	Bill Cycle	Sum of	# Cust.	Col M *	β =
HDD	NHDD	NHDD	(2018)		(NDD-ADD)	Charges	Col N	0.1493772
4/1/2018	32.000	16.07	27.4	(4.64)				
4/2/2018	31.500	17.21	23.3	(8.17)				
4/3/2018	10.500	8.96	3.7	(6.84)				
4/4/2018	29.500	12.23	18.6	(10.93)				
4/5/2018	19.000	23.33	9.8	(9.24)				
4/6/2018	25.000	10.52	14.0	(10.95)				
4/7/2018	31.000	13.91	20.6	(10.39)				
4/8/2018	29.000	20.53	17.3	(11.69)				
4/9/2018	24.000	27.36	13.0	(11.00)				
4/10/2018	21.000	11.45	12.3	(8.70)				
4/11/2018	4.000	14.95	0.0	(4.00)				
4/12/2018	0.000	18.52	0.0	-				
4/13/2018	0.000	12.89	0.0	-				
4/14/2018	12.500	9.68	8.4	(4.12)				
4/15/2018	27.500	2.27	16.2	(11.32)				
4/16/2018	26.000	5.63	15.1	(10.92)				
4/17/2018	19.500	0.00	11.6	(7.92)				
4/18/2018	11.000	0.00	4.8	(6.20)				
4/19/2018	19.500	0.00	10.6	(8.85)	13	3/20/2018	4/18/2018	0 27733.06 0 0
4/20/2018	15.500	4.64	9.1	(6.43)	14	3/22/2018	4/21/2018	(20.19) 37781.91 -762982 -113972.1
4/21/2018	11.500	1.16	6.6	(4.91)	15	3/25/2018	4/22/2018	(27.89) 39650.3 -1105866 -165191.2
4/22/2018	9.000	3.48	1.3	(7.70)	16	3/26/2018	4/23/2018	(35.94) 37681.65 -1354108 -202272.9
4/23/2018	10.500	7.43	2.5	(8.05)	17	3/27/2018	4/24/2018	(39.94) 35004.69 -1397929 -208818.8
4/24/2018	4.000	0.00	0.0	(4.00)	18	3/28/2018	4/25/2018	(48.19) 38028.06 -1832717 -273766.2
4/25/2018	8.500	0.00	0.2	(8.26)	1	4/1/2018	4/29/2018	(66.85) 26625.04 -1779838 -265867.2
4/26/2018	4.000	0.00	0.0	(4.00)	2	4/2/2018	4/30/2018	(70.35) 34900.31 -2455176 -366747.3
4/27/2018	4.000	0.00	0.0	(4.00)	3	4/3/2018	5/1/2018	(69.88) 31585.56 -2207047 -329682.5
4/28/2018	11.500	6.46	5.8	(5.72)	4	4/4/2018	5/2/2018	(69.88) 35414.45 -2474592 -369647.6
4/29/2018	12.500	8.30	7.6	(4.94)	5	4/5/2018	5/6/2018	(37.14) 33665.68 -1250479 -186793
4/30/2018	3.500	0.14	0.0	(3.50)	6	4/8/2018	5/7/2018	(27.45) 32524.06 -892823 -133367.4
5/1/2018	0.000	1.26	0.5	0.47	7	4/10/2018	5/8/2018	(16.09) 29073.47 -467848 -69885.81
5/2/2018	0.000	7.91	0.0	-	8	4/11/2018	5/9/2018	(16.09) 33317.89 -536149 -80088.4

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5/3/2018	0.000	4.65	5.8	5.82	9	4/12/2018	5/12/2018	(16.09)	33711.86	-542488	-81035.41
5/4/2018	0.000	2.05	15.1	15.11	10	4/15/2018	5/14/2018	(16.09)	37995.25	-611416	-91331.67
5/5/2018	0.000	5.78	7.9	7.95	11	4/16/2018	5/15/2018	(16.09)	32594.4	-524506	-78349.3
5/6/2018	0.000	0.38	3.9	3.85	12	4/17/2018	5/16/2018	(14.00)	33270.77	-465878	-69591.62
5/7/2018	0.000	0.00	9.7	9.69	13	4/19/2018	5/19/2018	(4.04)	27777.9	-112309	-16776.45
5/8/2018	0.000	0.00	11.4	11.36	14	4/22/2018	5/21/2018	1.98	37508.17	74180.81	11080.92
5/9/2018	0.000	0.00	0.0	-	15	4/23/2018	5/22/2018	29.87	39393.92	1176626	175761.1
5/10/2018	0.000	0.00	0.0	-	16	4/24/2018	5/23/2018	37.91	37433.66	1419230	212000.6
5/11/2018	0.000	0.00	0.0	-	17	4/25/2018	5/27/2018	41.91	34932.16	1464119	218706
5/12/2018	0.000	0.00	0.0	-	18	4/26/2018	5/28/2018	50.17	38241.19	1918619	286598
5/13/2018	0.000	0.00	0.0	-	1	4/30/2018	5/30/2018	68.83	26200.16	1803252	269364.7
5/14/2018	0.000	11.29	0.0	-	2	5/1/2018	6/2/2018	72.33	34405.76	2488431	371714.8
5/15/2018	0.000	6.93	0.0	-	3	5/2/2018	6/3/2018	71.85	31341.68	2251991	336396.1
5/16/2018	0.000	9.63	2.1	2.09	4	5/3/2018	6/4/2018	76.35	35262.44	2692429	402187.6
5/17/2018	0.000	15.04	0.0	-	5	5/7/2018	6/5/2018	43.62	33015.14	1440214	215135.2
5/18/2018	0.000	3.83	7.0	6.96	6	5/8/2018	6/6/2018	33.93	32277.81	1095186	163595.8
5/19/2018	0.000	2.97	3.0	3.00	7	5/9/2018	6/10/2018	22.57	28681.99	647374.1	96702.93
5/20/2018	0.000	0.00	4.7	4.69	8	5/10/2018	6/11/2018	22.57	33103.31	747166.6	111609.7
5/21/2018	0.000	0.00	1.3	1.33	9	5/13/2018	6/12/2018	22.57	33241.98	750296.5	112077.2
5/22/2018	0.000	0.00	0.0	-	10	5/15/2018	6/13/2018	22.57	37798.13	853132.2	127438.5
5/23/2018	0.000	0.00	0.0	-	11	5/16/2018	6/16/2018	22.57	32319.7	729480	108967.7
5/24/2018	0.000	0.00	0.0	-	12	5/17/2018	6/17/2018	20.48	33225.09	680498.7	101651
5/25/2018	0.000	0.00	0.0	-	13	5/20/2018	6/19/2018	10.52	27483.63	289181.5	43197.12
5/26/2018	0.000	0.00	0.0	-	14	5/22/2018	6/20/2018	4.50	37290.12	167847	25072.51
5/27/2018	0.000	0.00	0.0	-	15	5/23/2018	6/23/2018	5.19	216.42	1122.979	167.7475
5/28/2018	0.000	0.00	0.0	-	16	5/24/2018	6/24/2018	5.19	76363.07	396239.5	59189.14
5/29/2018	0.000	0.00	0.0	-	17	5/28/2018	6/25/2018	5.19	34764.34	180388.3	26945.9
5/30/2018	0.000	0.00	0.0	-	18	5/29/2018	6/26/2018	5.19	38047.22	197422.8	29490.46
5/31/2018	0.000	0.00	0.0	-	1	5/31/2018	6/30/2018	5.19	26260.39	136262.2	20354.47
6/1/2018	0.000	0.00	0.0	-	2	6/3/2018	7/1/2018	5.19	33929.58	176056.8	26298.87
6/2/2018	0.000	0.00	0.0	-	3	6/4/2018	7/3/2018	5.19	31296.36	162393.3	24257.86
6/3/2018	0.000	0.00	0.0	-	4	6/5/2018	7/4/2018	0.69	34731.66	23887.66	3568.272
6/4/2018	0.000	0.00	4.5	4.50	5	6/6/2018	7/7/2018	0.69	33118.97	22778.49	3402.587
6/5/2018	0.000	0.00	0.0	-	6	6/7/2018	7/8/2018	0.69	32162.14	22120.41	3304.284

6/6/2018	0.000	0.00	0.0	-	7	6/11/2018	7/10/2018	0.69	28711.05	19746.82	2949.725
6/7/2018	0.000	4.42	0.0	-	8	6/12/2018	7/11/2018	0.69	32842.01	22588	3374.133
6/8/2018	0.000	0.62	0.0	-	9	6/13/2018	7/14/2018	0.69	33135.54	22789.89	3404.29
6/9/2018	0.000	0.00	0.0	-	10	6/14/2018	7/15/2018	0.69	37797.12	25996.02	3883.213
6/10/2018	0.000	0.00	0.0	-	11	6/17/2018	7/16/2018	0.69	32071.53	22058.09	3294.975
6/11/2018	0.000	0.00	0.0	-	12	6/18/2018	7/17/2018	0.69	32997.68	22695.07	3390.126
6/12/2018	0.000	0.00	0.0	-	13	6/20/2018	7/21/2018	0.69	27497.8	18912.38	2825.078
6/13/2018	0.000	0.00	0.0	-	14	6/21/2018	7/22/2018	0.69	37084.98	25506.23	3810.048
6/14/2018	0.000	0.00	0.0	-	15	6/24/2018	7/23/2018	-	38976.52	0	0
6/15/2018	0.000	0.00	0.0	-	16	6/25/2018	7/24/2018	-	37262.82	0	0
6/16/2018	0.000	0.00	0.0	-	17	6/26/2018	7/25/2018	-	34490.81	0	0
6/17/2018	0.000	0.00	0.0	-	18	6/27/2018	7/28/2018	-	37909.37	0	0
6/18/2018	0.000	0.00	0.0	-	1	7/1/2018	7/30/2018	0.16	25404.36	4161.671	621.6588
6/19/2018	0.000	0.00	0.0	-	2	7/2/2018	7/31/2018	0.16	34228	5607.135	837.5782
6/20/2018	0.000	0.00	0.0	-	3	7/4/2018	8/1/2018	0.16	31015.38	5080.853	758.9636
6/21/2018	0.000	0.00	0.0	-	4	7/5/2018	8/4/2018	0.16	34749.27	5692.528	850.3339
6/22/2018	0.000	0.00	0.7	0.69	5	7/8/2018	8/6/2018	0.16	32823.92	5377.123	803.2195
6/23/2018	0.000	0.00	0.0	-	6	7/9/2018	8/7/2018	0.16	31834.29	5215.004	779.0028
6/24/2018	0.000	0.00	0.0	-	7	7/11/2018	8/8/2018	0.16	28566.57	4679.696	699.0398
6/25/2018	0.000	0.00	0.0	-	8	7/12/2018	8/11/2018	0.16	32869.89	5384.653	804.3445
6/26/2018	0.000	0.00	0.0	-	9	7/15/2018	8/12/2018	0.16	32802.08	5373.545	802.6851
6/27/2018	0.000	0.00	0.0	-	10	7/16/2018	8/14/2018	0.16	37594.72	6158.662	919.9637
6/28/2018	0.000	0.00	0.0	-	11	7/17/2018	8/15/2018	0.16	31913.02	5227.902	780.9293
6/29/2018	0.000	0.00	0.0	-	12	7/18/2018	8/18/2018	0.16	32900.19	5389.617	805.0859
6/30/2018	0.000	0.00	0.0	-	13	7/22/2018	8/19/2018	0.16	27230.37	4460.803	666.3423
7/1/2018	0.000	0.00	0.0	-	14	7/23/2018	8/21/2018	0.16	36933.68	6050.372	903.7877
7/2/2018	0.000	0.16	0.0	-	15	7/24/2018	8/22/2018	0.16	38888.43	6370.594	951.6215
7/3/2018	0.000	0.00	0.0	-	16	7/25/2018	8/25/2018	0.59	37118.69	21840.16	3262.422
7/4/2018	0.000	0.00	0.0	-	17	7/26/2018	8/26/2018	0.59	34435.87	20261.62	3026.624
7/5/2018	0.000	0.00	0.0	-	18	7/29/2018	8/27/2018	0.59	37744.02	22208.09	3317.383
7/6/2018	0.000	0.00	0.0	-	1	7/31/2018	9/2/2018	0.42	25839.3	10970.59	1638.756
7/7/2018	0.000	0.00	0.0	-	2	8/1/2018	9/3/2018	0.42	33685.13	14301.69	2136.347
7/8/2018	0.000	0.00	0.0	-	3	8/2/2018	9/4/2018	0.42	30888.96	13114.52	1959.011
7/9/2018	0.000	0.00	0.0	-	4	8/5/2018	9/5/2018	0.42	34721.9	14741.87	2202.1

7/10/2018	0.000	0.00	0.0	-	5	8/7/2018	9/8/2018	1.79	32935.88	58886.17	8796.251
7/11/2018	0.000	0.00	0.0	-	6	8/8/2018	9/9/2018	1.81	31926.88	57649.76	8611.56
7/12/2018	0.000	0.00	0.0	-	7	8/9/2018	9/10/2018	1.81	28539.63	51533.47	7697.925
7/13/2018	0.000	0.00	0.0	-	8	8/12/2018	9/11/2018	1.81	32752.34	59140.28	8834.209
7/14/2018	0.000	0.00	0.0	-	9	8/13/2018	9/12/2018	1.81	32733	59105.36	8828.993
7/15/2018	0.000	0.00	0.0	-	10	8/15/2018	9/16/2018	1.81	37675.96	68030.77	10162.25
7/16/2018	0.000	0.00	0.0	-	11	8/16/2018	9/17/2018	1.81	32088.19	57941.04	8655.07
7/17/2018	0.000	0.00	0.0	-	12	8/19/2018	9/18/2018	1.81	32766.52	59165.88	8838.034
7/18/2018	0.000	0.00	0.0	-	13	8/20/2018	9/19/2018	1.81	27124.53	48978.25	7316.234
7/19/2018	0.000	0.00	0.0	-	14	8/22/2018	9/22/2018	5.14	37158.64	190917.5	28518.72
7/20/2018	0.000	0.00	0.0	-	15	8/23/2018	9/23/2018	5.80	38999.42	226006.5	33760.22
7/21/2018	0.000	0.00	0.0	-	16	8/26/2018	9/24/2018	5.37	36984.09	198625.1	29670.06
7/22/2018	0.000	0.00	0.0	-	17	8/27/2018	9/25/2018	5.37	34407.09	184785.2	27602.69
7/23/2018	0.000	0.00	0.0	-	18	8/28/2018	9/26/2018	13.94	37774.32	526427.1	78636.21
7/24/2018	0.000	0.00	0.0	-							
7/25/2018	0.000	0.00	0.0	-							
7/26/2018	0.000	0.00	0.0	-							
7/27/2018	0.000	0.00	0.0	-							
7/28/2018	0.000	0.00	0.0	-							
7/29/2018	0.000	0.00	0.2	0.16							
7/30/2018	0.000	0.00	0.0	-							
7/31/2018	0.000	0.00	0.0	-							
8/1/2018	0.000	0.00	0.0	-							
8/2/2018	0.000	0.00	0.0	-							
8/3/2018	0.000	0.00	0.0	-							
8/4/2018	0.000	0.00	0.0	-							
8/5/2018	0.000	0.00	0.0	-							
8/6/2018	0.000	0.00	0.0	-							
8/7/2018	0.000	0.00	0.0	-							
8/8/2018	0.000	0.00	0.0	-							
8/9/2018	0.000	0.00	0.0	-							
8/10/2018	0.000	0.00	0.0	-							
8/11/2018	0.000	0.00	0.0	-							
8/12/2018	0.000	0.00	0.0	-							

8/13/2018	0.000	0.00	0.0	-
8/14/2018	0.000	0.00	0.0	-
8/15/2018	0.000	0.00	0.0	-
8/16/2018	0.000	0.00	0.0	-
8/17/2018	0.000	0.00	0.0	-
8/18/2018	0.000	0.00	0.0	-
8/19/2018	0.000	0.00	0.0	-
8/20/2018	0.000	0.00	0.0	-
8/21/2018	0.000	0.00	0.0	-
8/22/2018	0.000	0.00	0.0	-
8/23/2018	0.000	0.42	0.4	0.42
8/24/2018	0.000	0.00	0.0	-
8/25/2018	0.000	0.00	0.0	-
8/26/2018	0.000	0.00	0.0	-
8/27/2018	0.000	0.00	0.0	-
8/28/2018	0.000	0.00	0.0	-
8/29/2018	0.000	0.00	0.0	-
8/30/2018	0.000	0.00	0.0	-
8/31/2018	0.000	0.00	0.0	-
9/1/2018	0.000	0.00	0.0	-
9/2/2018	0.000	0.02	0.0	-
9/3/2018	0.000	0.00	0.0	-
9/4/2018	0.000	0.00	0.0	-
9/5/2018	0.000	0.00	0.0	-
9/6/2018	0.000	0.00	0.0	-
9/7/2018	0.000	0.00	0.0	-
9/8/2018	0.000	0.00	1.4	1.36
9/9/2018	0.000	0.00	0.0	0.02
9/10/2018	0.000	0.66	0.0	-
9/11/2018	0.000	2.41	0.0	-
9/12/2018	0.000	0.00	0.0	-
9/13/2018	0.000	0.00	0.0	-
9/14/2018	0.000	0.00	0.0	-
9/15/2018	0.000	0.00	0.0	-

9/16/2018	0.000	0.00	0.0	-
9/17/2018	0.000	0.00	0.0	-
9/18/2018	0.000	0.00	0.0	-
9/19/2018	0.000	0.00	0.0	-
9/20/2018	0.000	0.00	0.0	-
9/21/2018	0.000	0.00	0.0	-
9/22/2018	0.500	0.00	3.8	3.33
9/23/2018	0.000	0.00	0.7	0.66
9/24/2018	0.000	0.00	0.0	-
9/25/2018	0.000	0.00	0.0	-
9/26/2018	3.000	3.83	11.6	8.57
9/27/2018	2.000	1.36	5.7	3.68
9/28/2018	0.000	7.62	2.4	2.41
9/29/2018	2.500	11.57	7.6	5.12
9/30/2018	0.000	5.68	0.0	-