

Exhibit 19

No. 14

4-23) Similar to Exhibit bjl-2, tab capacity, please provide the year by year \$/MW-year avoided cost using costs associated with a simple cycle combustion turbine for the same time period as shown in that exhibit. Based on a review of the Company's 2014 IRP, this appears to be GE 7FA.05 with an overnight EPC cost of \$667/KW. Please refresh this cost estimate and provide the \$/MW-year avoided cost. Also, provide references or any applicable studies where the cost can be verified.

Response: Please see attachments to 4-23.

Discount Rate 7.24%
 Escalation Rate 2.00%
 Nameplate Capacity 60
 Capacity Contribution 5.0%
 Capacity credit 3

NorthWestern wil
 Market Protocols f
 4.1.2.2 Wind-Powe
 4.1.2.3 Wind-Powe
 SPP Planning Critei
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Capacity Value	Yearly Price/MW	Credited Capacity Per Project	Avoided Cost for Each Project Per		3 Projects
			Year	Year	
2019	\$ 117,779	1.00	\$ 117,779	\$ 353,336	
2020	\$ 117,910	1.00	\$ 117,910	\$ 353,729	
2021	\$ 118,043	1.00	\$ 118,043	\$ 354,130	
2022	\$ 118,180	1.00	TBD	TBD	
2023	\$ 118,319	1.00	TBD	TBD	
2024	\$ 118,460	1.00	TBD	TBD	
2025	\$ 118,605	1.00	TBD	TBD	
2026	\$ 118,752	1.00	TBD	TBD	
2027	\$ 118,903	1.00	TBD	TBD	
2028	\$ 119,056	1.00	TBD	TBD	
2029	\$ 119,213	1.00	TBD	TBD	
2030	\$ 119,373	1.00	TBD	TBD	
2031	\$ 119,535	1.00	TBD	TBD	
2032	\$ 119,701	1.00	TBD	TBD	
2033	\$ 119,871	1.00	TBD	TBD	
2034	\$ 120,044	1.00	TBD	TBD	
2035	\$ 120,220	1.00	TBD	TBD	
2036	\$ 120,400	1.00	TBD	TBD	
2037	\$ 120,583	1.00	TBD	TBD	
2038	\$ 120,770	1.00	TBD	TBD	

	Levelized Cost per kW-yr	Fixed O&M/kW-yr	Total \$/kW-yr	
1	2019	111.23	6.55	117.78
2	2020	111.23	6.68	117.91
3	2021	111.23	6.81	118.04
4	2022	111.23	6.95	118.18
5	2023	111.23	7.09	118.32
6	2024	111.23	7.23	118.46
7	2025	111.23	7.37	118.60
8	2026	111.23	7.52	118.75
9	2027	111.23	7.67	118.90
10	2028	111.23	7.83	119.06
11	2029	111.23	7.98	119.21
12	2030	111.23	8.14	119.37
13	2031	111.23	8.31	119.54
14	2032	111.23	8.47	119.70
15	2033	111.23	8.64	119.87
16	2034	111.23	8.81	120.04
17	2035	111.23	8.99	120.22
18	2036	111.23	9.17	120.40
19	2037	111.23	9.35	120.58
20	2038	111.23	9.54	120.77
		Levelized		118.84

\$111.23 - Levelize
\$6.55 - Fixed O&M

I include the protocol for each year in order to calculate accredited capacity. The current protocol from 2016 is below:

for SPP Integrated Marketplace
and Generation Resource Output Forecasts
and Generation Resource Data Requirements
via Version 1, 11/20/2015, 7.1.5.3 (7)

I methodology to evaluate the net planning capability established for wind or solar facilities shall be determined on a monthly basis, as stated below. If

- a. Assemble all available hourly net power output (MWH) data measured at the system interconnection point.
- b. Select the hourly net power output values occurring during the top 3% of load hours for the SPP Load Serving Entity for each month of each year for 1
- c. Select the hourly net power output value that can be expected from the facility 60% of the time or greater. For example, for a 5 year period with the
- d. A seasonal or annual net capability may be determined by selecting the appropriate monthly MW values corresponding to the Load Serving Entity's p
- e. Facilities in commercial operation 3 years or less:
 - i. The data must include the most recent 3 years.
- f. Values may be calculated from wind or solar data, if measured MW values are not yet available. Wind data correlated with a reference tower beyond
- g. If the Load Serving Entity chooses not to perform the net capability calculations as described above during the first 3 years of commercial operation, 1
- h. Facilities in commercial operation 4 years and greater:
 - i. The data must include all available data up to the most recent 10 years of commercial operation.
 - ii. Only metered hourly net power output (MWH) data may be used.
 - iii. After three years of commercial operations, if the Load Serving Entity does not perform or provide the net capability calculations
- i. The net capability calculation shall be updated at least once every three years.

d cost for Aero CT built in 2018
1 per kW in 2018, escalating at 2%

a member's desire to use a more restrictive methodology to evaluate the net capability of wind or solar they may do so, however net capability de

the evaluation period

110 hourly net power output values ranked from the highest to lowest, the capacity of the facility will be the MW value in the 65th data point.
leak load month of the season of interest (e.g., 22 hours for a typical 30 day month and 110 hours for a 5 year period).

fifty miles is subject to Generation Working Group approval. Solar data correlated with a reference measuring device beyond two hundred miles is
the Load Serving Entity may submit 5% for wind facilities and 10% for solar facilities of the site facility's nameplate rating.

to SPP as described above, then the net capability for the resource will be 0 MW.

determined by the alternative methodology employed cannot credit the wind or solar with a capability greater than determined with the methodology

subject to Generation Working Group approval. For calculated values, at least one year must be based on site specific data.

stated below:

WACC 7.24% nominal, annual

NPV and Annualized Energy Costs \$/MWh

NPV Of Energy Costs	\$ 82,130,168
Levelized Payment	\$ 28.49

Summary Table: Annual Wind QF Generation and Avoided Costs

Year	Generation (MWh)	Generation offsetting internal production (MWh)	Offset Purchases (MWh)	Average Offsetting Generation Avoided Cost (\$/MWh)	Average Offset Purchase Price (\$/MWh)	Total Offsetting Generation Avoided Cost (\$)	Total Avoided Cost of Purchases (\$)
2017	277,156	125,955	151,201	\$ 16.83	\$ 22.45	\$ 2,120,144	\$ 3,394,856
2018	277,190	106,838	170,352	\$ 15.68	\$ 22.12	\$ 1,675,452	\$ 3,768,301
2019	277,190	94,385	182,805	\$ 16.97	\$ 24.27	\$ 1,601,882	\$ 4,437,440
2020	277,190	110,031	167,159	\$ 20.48	\$ 26.69	\$ 2,253,903	\$ 4,461,455
2021	277,190	99,391	177,799	\$ 20.10	\$ 28.09	\$ 1,997,478	\$ 4,993,631
2022	277,190	91,466	185,724	\$ 21.74	\$ 28.72	\$ 1,988,765	\$ 5,333,590
2023	277,190	89,955	187,235	\$ 24.06	\$ 30.52	\$ 2,164,300	\$ 5,713,630
2024	277,190	97,672	179,518	\$ 24.29	\$ 32.23	\$ 2,372,236	\$ 5,785,211
2025	277,190	84,714	192,476	\$ 25.78	\$ 33.77	\$ 2,183,658	\$ 6,500,488
2026	277,190	88,479	188,712	\$ 26.77	\$ 34.27	\$ 2,368,457	\$ 6,467,748
2027	277,190	79,027	198,164	\$ 26.49	\$ 34.35	\$ 2,093,657	\$ 6,807,303
2028	277,190	67,248	209,943	\$ 28.66	\$ 34.52	\$ 1,927,174	\$ 7,247,965
2029	277,190	70,534	206,656	\$ 28.12	\$ 35.10	\$ 1,983,363	\$ 7,253,591
2030	277,190	68,590	208,600	\$ 28.32	\$ 35.76	\$ 1,942,291	\$ 7,459,284
2031	277,190	60,583	216,607	\$ 28.23	\$ 36.72	\$ 1,710,301	\$ 7,954,864
2032	277,190	55,351	221,840	\$ 30.34	\$ 38.43	\$ 1,679,440	\$ 8,524,610
2033	277,190	60,299	216,891	\$ 30.20	\$ 39.79	\$ 1,821,276	\$ 8,631,037
2034	277,190	53,248	223,942	\$ 30.31	\$ 41.14	\$ 1,613,732	\$ 9,214,079
2035	277,190	55,170	222,020	\$ 31.89	\$ 41.89	\$ 1,759,455	\$ 9,301,412

2036	277,190	49,697	227,494	\$	30.93	\$	42.32	\$	1,537,351	\$	9,626,734
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Information Only	
Total Avoided Cost	
Levelized Payment	\$25.72

Total Avoided Cost
Offer Price

Total Avoided Cost (\$)	Average Avoided Cost (\$/MWh)	REC Value	Regulation	Interconnection Upgrade Costs	Average Avoided Cost (\$/MWh) With RECs
\$ 5,515,000	\$ 19.90	\$ 0.37	\$ (0.32)	\$ (2.84)	\$ 17.11
\$ 5,443,753	\$ 19.64	\$ 0.40	\$ (0.35)	\$ (2.84)	\$ 16.85
\$ 6,039,323	\$ 21.79	\$ 0.44	\$ (0.38)	\$ (2.84)	\$ 19.00
\$ 6,715,358	\$ 24.23	\$ 0.48	\$ (0.42)	\$ (2.84)	\$ 21.45
\$ 6,991,109	\$ 25.22	\$ 0.51	\$ (0.44)	\$ (2.84)	\$ 22.45
\$ 7,322,356	\$ 26.42	\$ 0.52	\$ (0.46)	\$ (2.84)	\$ 23.64
\$ 7,877,930	\$ 28.42	\$ 0.56	\$ (0.48)	\$ (2.84)	\$ 25.65
\$ 8,157,447	\$ 29.43	\$ 0.58	\$ (0.51)	\$ (2.84)	\$ 26.66
\$ 8,684,146	\$ 31.33	\$ 0.61	\$ (0.53)	\$ (2.84)	\$ 28.57
\$ 8,836,205	\$ 31.88	\$ 0.62	\$ (0.54)	\$ (2.84)	\$ 29.12
\$ 8,900,960	\$ 32.11	\$ 0.62	\$ (0.54)	\$ (2.84)	\$ 29.35
\$ 9,175,139	\$ 33.10	\$ 0.63	\$ (0.55)	\$ (2.84)	\$ 30.34
\$ 9,236,954	\$ 33.32	\$ 0.63	\$ (0.55)	\$ (2.84)	\$ 30.57
\$ 9,401,575	\$ 33.92	\$ 0.65	\$ (0.56)	\$ (2.84)	\$ 31.16
\$ 9,665,165	\$ 34.87	\$ 0.66	\$ (0.58)	\$ (2.84)	\$ 32.11
\$ 10,204,050	\$ 36.81	\$ 0.69	\$ (0.60)	\$ (2.84)	\$ 34.06
\$ 10,452,313	\$ 37.71	\$ 0.71	\$ (0.62)	\$ (2.84)	\$ 34.96
\$ 10,827,812	\$ 39.06	\$ 0.74	\$ (0.64)	\$ (2.84)	\$ 36.32
\$ 11,060,868	\$ 39.90	\$ 0.75	\$ (0.65)	\$ (2.84)	\$ 37.16

\$ 11,164,085 \$ 40.28

\$ 0.76 \$ (0.66) \$ (2.84) \$ 37.53

	Cost per MWh	EIA escalation
2015	\$ 0.24	
2016	\$ 0.28	18%
2017	\$ 0.32	14%
2018	\$ 0.35	9%
2019	\$ 0.38	9%
2020	\$ 0.42	9%
2021	\$ 0.44	5%
2022	\$ 0.46	4%
2023	\$ 0.48	6%
2024	\$ 0.51	5%
2025	\$ 0.53	5%
2026	\$ 0.54	2%
2027	\$ 0.54	0%
2028	\$ 0.55	1%
2029	\$ 0.55	1%
2030	\$ 0.56	2%
2031	\$ 0.58	3%
2032	\$ 0.60	5%
2033	\$ 0.62	3%
2034	\$ 0.64	3%
2035	\$ 0.65	2%
2036	\$ 0.66	1%

2015 Integrated Marketplace Review: Regulation Support

- **Average cost of regulation**
- Annual regulation cost for '15
- \$7.6 million / 32.1 million MWh
- = **\$0.24/MWh**

t for Wind Integration (Feb 2, 2016)

1 per MWhr of wind energy:

wind / Annual wind energy

MWhr

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	NorthWestern Energy														
2	Revenue Requirement - Regulated														
3	Juhl Wind (Grule, Dawson, Aurora)														
4	Network Upgrades		1	2	3	4	5	6	7	8	9	10	11	12	13
5			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
6	Rate Base:														
7															
8	Project Capitalize? (Yes = capital, no = expense)	yes	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252
9	Less:														
10	Accumulated Depreciation (Book Life)		151,611	303,222	454,834	606,445	758,056	909,667	1,061,279	1,212,890	1,364,501	1,516,112	1,667,724	1,819,335	1,970,946
11	Deferred Income Taxes		76,203	268,629	436,505	581,883	707,514	815,125	914,247	1,013,172	1,112,157	1,210,886	1,309,671	1,408,600	1,507,585
12	Total Year End Rate Base		\$ 7,063,438	\$ 6,719,401	\$ 6,400,113	\$ 6,102,914	\$ 5,825,682	\$ 5,566,459	\$ 5,315,727	\$ 5,085,191	\$ 4,814,594	\$ 4,564,254	\$ 4,313,657	\$ 4,083,318	\$ 3,812,721
13															
14	Average Annual Rate Base		\$ 7,177,345	\$ 6,881,419	\$ 6,559,757	\$ 6,251,514	\$ 5,964,298	\$ 5,696,071	\$ 5,441,093	\$ 5,190,459	\$ 4,939,892	\$ 4,689,424	\$ 4,438,956	\$ 4,188,487	\$ 3,938,019
15	Return (Avg Rate Base*Cost of Capital)	7.24%	\$ 519,640	\$ 498,939	\$ 474,926	\$ 452,610	\$ 431,815	\$ 412,396	\$ 393,935	\$ 375,789	\$ 357,648	\$ 339,514	\$ 321,360	\$ 303,246	\$ 285,113
16	Property Taxes	0.79%	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083
17		0.00%	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Depreciation		151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611
19	Deferred Income Taxes @ 36%		76,203	192,426	167,676	145,588	125,621	107,611	99,122	98,925	96,985	94,728	92,996	91,395	89,996
20	Income Taxes		106,212	(17,278)	(959)	13,297	25,964	37,157	39,166	32,993	26,564	20,456	13,832	7,724	1,101
21															
22	Total Revenue Requirement		\$ 910,749	\$ 892,781	\$ 850,340	\$ 820,189	\$ 792,095	\$ 765,658	\$ 740,917	\$ 716,401	\$ 691,892	\$ 667,392	\$ 642,893	\$ 618,393	\$ 593,893
23															
24															
25															

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
2	Revenue Requirement - Regulated														
3	Juhl Wind (Brule, Davison, Aurora)														
4	Network Upgrades		1	2	3	4	5	6	7	8	9	10	11	12	13
5			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
26	Income Taxes:														
27	Revenues		\$ 910,749	\$ 882,781	\$ 850,340	\$ 820,189	\$ 792,096	\$ 766,868	\$ 740,917	\$ 716,401	\$ 691,892	\$ 667,392	\$ 642,893	\$ 618,393	\$ 593,893
29	Property Taxes		\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083
30															
31															
32	MACRS														
33	Yes														
34	Tax Depreciation	15	367,536	698,318	628,486	666,005	509,405	457,950	433,692	433,692	434,427	433,692	434,427	433,692	434,427
35		7	1,798	3,081	2,201	1,571	1,124	1,122	1,124	561	-	-	-	-	-
36	Interest Expense (Based on Avg. Rate Base)														
37	Federal Taxable Income	2.52%	\$ 180,889	\$ 173,684	\$ 165,306	\$ 157,538	\$ 150,300	\$ 143,541	\$ 137,116	\$ 130,800	\$ 124,485	\$ 118,173	\$ 111,892	\$ 105,590	\$ 99,238
38	Federal Income Tax @ 35%		\$ 303,453	\$ (49,365)	\$ (2,736)	\$ 37,991	\$ 74,163	\$ 106,162	\$ 111,802	\$ 94,265	\$ 75,896	\$ 58,443	\$ 39,520	\$ 22,068	\$ 3,145
39		35.00%	\$ 106,212	\$ (17,278)	\$ (936)	\$ 13,287	\$ 25,994	\$ 37,157	\$ 39,166	\$ 32,993	\$ 26,564	\$ 20,455	\$ 13,832	\$ 7,724	\$ 1,101
40	Federal Taxable Income		\$ 303,453	\$ (49,365)	\$ (2,736)	\$ 37,991	\$ 74,163	\$ 106,162	\$ 111,802	\$ 94,265	\$ 75,896	\$ 58,443	\$ 39,520	\$ 22,068	\$ 3,145
41															
42															
43															
44															
45															
46															
47	Juhl Wind Interconnection Costs (60MW)														
48	20-year PMT of the NPV of Rev Req Cost														
49	Levelized Cost per MW		\$ 787,368.38												
50			\$ 2.84												
51	Brule County Facilities Study - Draft														
52															
53		TPF	NETWORK												
54	Substation	\$ 433,230	\$ 1,940,946												
55	Transmission	\$ -	\$ 137,877												
56	Relaying	\$ 47,451	\$ 377,833												
57	Metering	\$ 14,286	\$ -												
58	Communications ¹	\$ 37,817	\$ 6,618												
59	EMS	\$ 994	\$ 1,988												
60	Land & Permitting	\$ -	\$ 152,457												
61	Subtotal	\$ 533,778	\$ 2,617,719												
62															
63															
64	Distribution Subtotal	\$ -	\$ -												
65															
66															
67	TPF Upgrades	\$ 533,778													
68	Network Upgrades	\$ 2,617,719													
69	Distribution	\$ -													
70	TOTAL	\$ 3,151,497													
71															
72															

	A	B	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	NorthWestern Energy													
2	Revenue Requirement - Regulated													
3	Juni Wind (Grule, Davison, Aurora)													
4	Network Upgrades													
5			14	15	16	17	18	19	20	21	22	23	24	25
6	Rate Base:		2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
7														
8	Project Capitalized? (yes = capital, no = expense)	yes	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252
9														
10	Less:													
11	Accumulated Depreciation (Book Life)		2,122,557	2,274,168	2,425,780	2,577,391	2,729,002	2,890,613	3,032,225	3,183,836	3,335,447	3,487,058	3,638,669	3,790,281
12	Deferred Income Taxes		1,606,314	1,705,299	1,728,131	1,675,067	1,622,004	1,568,940	1,515,876	1,462,812	1,409,748	1,356,684	1,303,620	1,250,556
13														
14	Total Year End Rate Base		\$ 3,562,381	\$ 3,311,794	\$ 3,137,341	\$ 3,036,794	\$ 2,940,246	\$ 2,841,699	\$ 2,743,152	\$ 2,644,604	\$ 2,546,057	\$ 2,447,510	\$ 2,348,963	\$ 2,250,415
15														
16	Average Annual Rate Base		\$ 3,687,551	\$ 3,437,083	\$ 3,224,563	\$ 3,088,067	\$ 2,989,520	\$ 2,890,973	\$ 2,792,425	\$ 2,693,878	\$ 2,595,331	\$ 2,496,784	\$ 2,398,236	\$ 2,299,689
17														
18	Return (Avg. Rate Base*Cost of Capital)	7.24%	\$ 266,979	\$ 246,845	\$ 233,468	\$ 223,576	\$ 216,441	\$ 209,306	\$ 202,172	\$ 195,037	\$ 187,902	\$ 180,767	\$ 173,632	\$ 166,497
19	Property Taxes	0.78%	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083	57,083
20		0.00%												
21	Depreciation		151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611
22	Deferred Income Taxes @ 35%		98,726	98,986	22,832	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)
23	Income Taxes		(5,000)	(11,631)	59,121	131,548	129,044	128,539	124,035	121,530				
24														
25	Total Revenue Requirement		\$ 569,394	\$ 544,894	\$ 524,106	\$ 510,755	\$ 501,115	\$ 491,476	\$ 481,837	\$ 472,197	\$ 463,532	\$ 454,898	\$ 446,263	\$ 437,628

	A	B	P	Q	R	S	T	U	V	W	X	Y	Z	AA
2	Revenue Requirement - Regulated													
3	Juhl Wind (Brule, Davison, Aurora)													
4	Network Upgrades		14	15	16	17	18	19	20	21	22	23	24	25
5			2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
26	Income Taxes:													
27	Revenues		\$ 569,394	\$ 544,894	\$ 524,106	\$ 510,756	\$ 501,115	\$ 491,476	\$ 481,837	\$ 472,197	\$ 463,552	\$ 454,919	\$ 446,286	\$ 437,652
28	Property Taxes		\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083	\$ 57,083
29	MACRS													
30	Yes													
31	MACRS													
32	Yes													
33	Tax Depreciation		433,692	434,427	216,846									
34	Tax Depreciation		7											
35	Interest Expense (Based on Avg. Rate Base)		2.52%	92,926	86,514	81,259	77,819	75,336	72,853	70,369	67,886	65,402	62,919	60,436
36	Federal Taxable Income		\$ (14,308)	\$ (33,231)	\$ 168,918	\$ 375,882	\$ 368,696	\$ 361,540	\$ 354,384	\$ 347,228	\$ 221,047	\$ 216,395	\$ 211,744	\$ 207,093
37	Federal Income Tax @ 35%		\$ (5,008)	\$ (11,631)	\$ 59,121	\$ 131,548	\$ 129,044	\$ 126,539	\$ 124,035	\$ 121,530	\$ 77,366	\$ 75,738	\$ 74,110	\$ 72,482
38	Federal Taxable Income		\$ (14,308)	\$ (33,231)	\$ 168,918	\$ 375,882	\$ 368,696	\$ 361,540	\$ 354,384	\$ 347,228	\$ 221,047	\$ 216,395	\$ 211,744	\$ 207,093
39	Brule County Facilities Study - Draft													
40	Substation	TPLE	433,230	NETWO	5725644 Sub									
41	Transmission		\$ 1		434677 Trans									
42	Relaying		\$		1133499 Relay									
43	Relaying		\$ 47,451		25341 Comm									
44	Metering		\$ 14,286		6727 EMS									
45	Communications ¹		\$ 37,817		465364 Land									
46	EMS		\$ 994		7291252									
47	Lands & Permitting		\$											
48	Subtotal		\$ 533,778											
49	Distribution Subtotal		\$											
50	TPF Upgrades		\$ 533,778											
51	Network Upgrades		\$ 2,617,719											
52	Distribution		\$											
53	TOTAL		\$ 3,151,497											

	A	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
1	NorthWestern Energy														
2	Revenue Requirement - Regulated														
3	Juhi Wind (Brule, Davison, Aurora)														
4	Network Upgrades		26	27	28	29	30	31	32	33	34	35	36	37	38
5			2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
6	Rate Base:														
7															
8	Project Capitalize? (yes = capital, no = expense)	yes	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252
9															
10	Less:														
11	Accumulated Depreciation (Book Life)		3,941,892	4,093,503	4,245,114	4,396,726	4,548,337	4,699,948	4,851,559	5,003,171	5,154,782	5,306,393	5,458,004	5,609,615	5,761,227
12	Deferred Income Taxes		1,197,492	1,144,428	1,091,364	1,038,300	985,236	932,172	879,109	826,045	772,981	719,917	666,853	613,789	560,725
13															
14	Total Year End Rate Base		\$ 2,151,866	\$ 2,053,321	\$ 1,954,773	\$ 1,856,226	\$ 1,757,679	\$ 1,659,131	\$ 1,560,584	\$ 1,462,037	\$ 1,363,490	\$ 1,264,942	\$ 1,166,395	\$ 1,067,848	\$ 969,300
15															
16	Average Annual Rate Base		\$ 2,201,142	\$ 2,102,594	\$ 2,004,047	\$ 1,905,500	\$ 1,806,952	\$ 1,708,405	\$ 1,609,858	\$ 1,511,311	\$ 1,412,763	\$ 1,314,216	\$ 1,215,669	\$ 1,117,121	\$ 1,018,574
17															
18	Return (Avg. Rate Base*Cost of Capital)	7.24%	\$ 159,363	\$ 152,228	\$ 146,093	\$ 137,958	\$ 130,823	\$ 123,689	\$ 116,554	\$ 109,419	\$ 102,284	\$ 95,149	\$ 88,014	\$ 80,880	\$ 73,745
19	Property Taxes	0.76%													
20		0.00%													
21	Depreciation		151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611	151,611
22	Deferred Income Taxes @ 35%		(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)	(53,064)
23	Income Taxes														
24															
25	Total Revenue Requirement		\$ 257,910	\$ 250,775	\$ 243,640	\$ 236,505	\$ 229,371	\$ 222,236	\$ 215,101	\$ 207,966	\$ 200,831	\$ 193,697	\$ 186,562	\$ 179,427	\$ 172,292

	A	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
2	Revenue Requirement - Regulated														
3	Juhl Wind (Brule, Dawson, Aurora)														
4	Network Upgrades		26	27	28	29	30	31	32	33	34	35	36	37	38
5			2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
26															
27	Income Taxes:														
28	Revenues		\$ 257,910	\$ 230,775	\$ 243,640	\$ 238,505	\$ 229,371	\$ 222,256	\$ 215,101	\$ 207,966	\$ 200,831	\$ 193,697	\$ 186,562	\$ 179,427	\$ 172,292
29	Property Taxes														
30															
31															
32															
33	Tax Depreciation														
34	Tax Depreciation														
35															
36	Interest Expense (Based on Avg. Rate Base)														
37	Federal Taxable Income		\$ 55,469	\$ 52,985	\$ 50,502	\$ 48,018	\$ 45,535	\$ 43,052	\$ 40,568	\$ 38,085	\$ 35,602	\$ 33,118	\$ 30,635	\$ 28,151	\$ 25,668
38	Federal Income Tax @ 35%		\$ 202,441	\$ 197,790	\$ 193,138	\$ 188,487	\$ 183,835	\$ 179,184	\$ 174,533	\$ 169,881	\$ 165,230	\$ 160,578	\$ 155,927	\$ 151,275	\$ 146,624
39	Federal Income Tax @ 35%		\$ 70,854	\$ 69,226	\$ 67,598	\$ 65,970	\$ 64,342	\$ 62,714	\$ 61,086	\$ 59,458	\$ 57,830	\$ 56,202	\$ 54,574	\$ 52,946	\$ 51,318
40															
41	Federal Taxable Income		\$ 202,441	\$ 197,790	\$ 193,138	\$ 188,487	\$ 183,835	\$ 179,184	\$ 174,533	\$ 169,881	\$ 165,230	\$ 160,578	\$ 155,927	\$ 151,275	\$ 146,624
42															
43															
44															
45															
46															
47	Juhl Wind Interconnection Costs (60MW)														
48	20-year PMT of the NPV of Rev Req Cost														
49	Levelized Cost per MW														
50															
51	Brule County Facilities Study - Draft														
52															
53															
54	Substation	TPIF	\$ 433,230												
55	Transmission			\$ 1											
56	Retrying			\$ 47,451											
57	Metering			\$ 14,286											
58	Communications ¹			\$ 37,817											
59	EMAS			\$ 994											
60	EMAS			\$ 994											
61	EMAS			\$ 994											
62	EMAS			\$ 994											
63	Subtotal		\$ 533,778												
64															
65	Distribution Subtotal		\$ -												
66															
67	TPIF Upgrades		\$ 533,778												
68	Network Upgrades		\$ 2,617,719												
69	Distribution		\$ -												
70	Distribution		\$ -												
71	TOTAL		\$ 3,151,497												
72															

	A	B	AO	AP
1	Northwestern Energy			
2	Revenue Requirement - Regulated			
3	Juhi Wind (Grule, Davison, Aurora)			
4	Network Upgrades		39	40
5			2054	2055
6	Rate Base:			
7				
8	Project Capitalize? (yes = capital, no = expense)	yes	\$ 7,291,252	\$ 7,291,252
9				
10	Less:			
11	Accumulated Depreciation (Book Life)		5,912,838	6,064,449
12	Deferred Income Taxes		507,861	454,597
13				
14	Total Year End Rate Base		\$ 870,753	\$ 772,206
15				
16	Average Annual Rate Base		\$ 920,027	\$ 821,479
17				
18	Return (Avg. Rate Base/Cost of Capital)	7.24%	\$ 66,610	\$ 59,475
19	Property Taxes	0.78%	-	-
20		0.00%		
21	Depreciation		151,611	151,611
22	Deferred Income Taxes @ 35%		(53,064)	(53,064)
23	Income Taxes			
24				
25	Total Revenue Requirement:		\$ 165,157	\$ 158,022

	A	B	AO	AP
2	Revenue Requirement - Regulated			
3	Juhl Wind (Brule, Davison, Aurora)			
4	Network Upgrades		39	40
5			2054	2055
26	Income Taxes:			
27	Revenues		\$ 165,157	\$ 158,022
28	Property Taxes		-	-
29				
30				
31		MACRS		
32		Yes		
33	Tax Depreciation	15	-	-
34	Tax Depreciation	7	-	-
35				
36	Interest Expense (Based on Avg. Rate Base)	2.52%	23,185	20,701
37	Federal Taxable Income		\$ 141,973	\$ 137,321
38				
39	Federal Income Tax @ 35%	35.00%	\$ 49,690	\$ 48,062
40				
41	Federal Taxable Income		\$ 141,973	\$ 137,321
42				
43				
44				
45				
46				
47	Juhl Wind Interconnection Costs (\$0/MW)			
48	20-year PMT of the NPV of Rev Req Cost			
49	Levelized Cost per MW			
50				
51	Brule County Facilities Study - Draft			
52				
53		TIIF		NETWO
54	Substation	\$ 433,230		\$ 1
55	Transmission	\$		
56	Relaying	\$ 47,451		
57	Metering	\$ 14,286		
58	Communications ¹	\$ 37,817		
59	EMS	\$ 994		
60	Lands & Permitting	\$		
61		\$		
62	Subtotal	\$ 533,778		\$ 2
63				
64				
65	Distribution Subtotal	\$		\$
66				
67	TIIF Upgrades	\$ 533,778		
68	Network Upgrades	\$ 2,617,719		
69	Distribution	\$		
70		\$		
71	TOTAL	\$ 3,151,497		
72				

Electric Power Projections by Electricity Market Module Region

http://www.eia.gov/forecasts/aeo/data/browser/#/?id=62-AEO2016®ion=3-17&cases=ref_no_cpp&start=2013&end=2040&f=A&linechart=ref_no

Tue Oct 11 2016 11:20:40 GMT-0600 (Mountain Daylight Time)

Source: U.S. Energy Information Administration

	full name	api key	units	2014	2015	2016	2017	2018
Southwest Power Pool / North		62-AEO2016.2.						
Net Summer Electricity Generating Capacity (gigawatts)		62-AEO2016.3.						
Electric Power Sector		62-AEO2016.4.						
Coal	Electricity: 62-AEO201 GW		8,508,699	8,4402	7,574	7,574	7,574	7,574
Oil and Natural Gas Steam 3	Electricity: 62-AEO201 GW			1,7544	1,6694	1,7657	1,7657	1,7657
Combined Cycle	Electricity: 62-AEO201 GW		1,3382	1,3382	1,4762	1,4762	1,4762	1,4762
Combustion Turbine/Diesel	Electricity: 62-AEO201 GW		5,3216	5,3016	5,3292	5,3853	5,58318	
Nuclear Power	Electricity: 62-AEO201 GW		1,175	1,175	1,175	1,175	1,175	1,175
Pumped Storage	Electricity: 62-AEO201 GW							
Fuel Cells	Electricity: 62-AEO201 GW							
Renewable Sources	Electricity: 62-AEO201 GW		3,0025	3,9814	4,4352	4,4352	5,207316	
Distributed Generation	Electricity: 62-AEO201 GW							
Total Capacity	Electricity: 62-AEO201 GW		21,1004	21,9058	21,7553	21,8114	22,7814	
Cumulative Planned Additions	62-AEO2016.16.							
Coal	Electricity: 62-AEO201 GW		--	--	--	--	--	--
Oil and Natural Gas Steam	Electricity: 62-AEO201 GW		--	--	--	--	--	--
Combined Cycle	Electricity: 62-AEO201 GW		--	--	0.138	0.138	0.138	0.138
Combustion Turbine/Diesel	Electricity: 62-AEO201 GW		--	--	0.0276	0.0837	0.0837	0.0837
Nuclear Power	Electricity: 62-AEO201 GW		--	--	--	--	--	--
Pumped Storage	Electricity: 62-AEO201 GW		--	--	--	--	--	--
Fuel Cells	Electricity: 62-AEO201 GW		--	--	--	--	--	--
Renewable Sources	Electricity: 62-AEO201 GW		--	--	0.4538	0.4538	0.4538	0.4538
Distributed Generation	Electricity: 62-AEO201 GW		--	--	--	--	--	--
Total Planned Additions	Electricity: 62-AEO201 GW		--	--	0.6194	0.6755	0.6755	0.6755
Cumulative Unplanned Additions	62-AEO2016.27.							
Coal	Electricity: 62-AEO201 GW		--	--	--	--	--	--
Oil and Natural Gas Steam	Electricity: 62-AEO201 GW		--	--	--	--	--	--
Combined Cycle	Electricity: 62-AEO201 GW		--	--	--	--	--	--
Combustion Turbine/Diesel	Electricity: 62-AEO201 GW		--	--	--	--	--	0.197881
Nuclear Power	Electricity: 62-AEO201 GW		--	--	--	--	--	--

Pumped Storage	Electricity: 62-AEO201 GW	--	--						
Fuel Cells	Electricity: 62-AEO201 GW	--	--						
Renewable Sources	Electricity: 62-AEO201 GW	--	--						0.772116
Distributed Generation	Electricity: 62-AEO201 GW	--	--						
Total Unplanned Additions	Electricity: 62-AEO201 GW	--	--						0.969997
Cumulative Electric Power Sector Additions	Electricity: 62-AEO201 GW	--	--			0.6194		0.6755	1.645497
Cumulative Retirements	62-AEO2016.40.								
Coal	Electricity: 62-AEO201 GW	--	--			0.4058		0.4058	0.4058
Oil and Natural Gas Steam	Electricity: 62-AEO201 GW	--	--						
Combined Cycle	Electricity: 62-AEO201 GW	--	--						
Combustion Turbine/Diesel	Electricity: 62-AEO201 GW	--	--						
Nuclear Power	Electricity: 62-AEO201 GW	--	--						
Pumped Storage	Electricity: 62-AEO201 GW	--	--						
Fuel Cells	Electricity: 62-AEO201 GW	--	--						
Renewable Sources	Electricity: 62-AEO201 GW	--	--						
Total	Electricity: 62-AEO201 GW	--	--			0.4058		0.4058	0.4058
End-Use Sectors	62-AEO2016.52.								
Coal	Electricity: 62-AEO201 GW								
Petroleum	Electricity: 62-AEO201 GW								
Natural Gas	Electricity: 62-AEO201 GW								
Other Gaseous Fuels	Electricity: 62-AEO201 GW	0.030283	0.032183	0.034417	0.036061	0.037256			
Renewable Sources	Electricity: 62-AEO201 GW								
Other	Electricity: 62-AEO201 GW	0.004058	0.010329	0.017931	0.025716	0.034615			
Total	Electricity: 62-AEO201 GW								
Electricity Sales	62-AEO2016.61.								
(billion kilowatt-hours)	62-AEO2016.62.								
Residential	Electricity: 62-AEO201 BKWh	22.68072	21.49566	22.64479	22.56747	22.57337			
Commercial/Other	Electricity: 62-AEO201 BKWh	25.53371	25.94272	25.76039	25.55963	25.37946			
Industrial	Electricity: 62-AEO201 BKWh	15.47496	14.96564	15.0922	15.10036	14.8819			
Transportation	Electricity: 62-AEO201 BKWh	0.027079	0.041395	0.052236	0.063576	0.07184			
Total Sales	Electricity: 62-AEO201 BKWh	63.71647	62.4454	63.54962	63.29104	62.90657			
Net Energy for Load (billion kilowatt-hours)	62-AEO2016.69.								
Gross International Imports	Electricity: 62-AEO201 BKWh								
Gross International Exports	Electricity: 62-AEO201 BKWh								
Gross Interregional Electricity Imports	Electricity: 62-AEO201 BKWh	4.374117	4.437169	5.175889	2.517587	2.354618			

Gross Interregional Electricity Exports	Electricity: 62-AEO201 BKWh	3.818949	1.681332	3.343591	6.099874	8.009418
Purchases from Combined Heat and Power	Electricity: 62-AEO201 BKWh	0.058378	0.062395	0.066609	0.070044	0.070384
Electric Power Sector Generation for Customer	Electricity: 62-AEO201 BKWh	71.18238	65.01252	66.98238	72.17903	73.7234
Total Net Energy for Load	Electricity: 62-AEO201 BKWh	71.79593	67.83075	68.88129	68.66679	68.13898
Generation by Fuel Type	62-AEO2016.78.					
(billion kilowatthours)	62-AEO2016.79.					
Electric Power Sector	62-AEO2016.80.					
Coal	Electricity: 62-AEO201 BKWh	46.96069	41.48836	41.45457	46.04224	45.08811
Petroleum	Electricity: 62-AEO201 BKWh	0.113	0.166638	0.16663	0.185542	0.18171
Natural Gas	Electricity: 62-AEO201 BKWh	4.529696	3.535343	3.254672	2.69219	2.569194
Nuclear	Electricity: 62-AEO201 BKWh	8.558	8.695292	8.454165	8.537553	8.553281
Pumped Storage/Other	Electricity: 62-AEO201 BKWh	0.0006	0.0006	0.0006	0.0006	0.001377
Renewable Sources	Electricity: 62-AEO201 BKWh	11.0204	11.19196	13.71742	14.78658	17.39539
Distributed Generation	Electricity: 62-AEO201 BKWh					
Total Generation	Electricity: 62-AEO201 BKWh	71.18238	65.07819	67.04805	72.2447	73.78906
Sales to Customers	Electricity: 62-AEO201 BKWh	71.18238	65.01252	66.98238	72.17903	73.7234
Generation for Own Use	Electricity: 62-AEO201 BKWh		0.06567	0.06567	0.06567	0.06567
End-Use Sectors	62-AEO2016.93.					
Coal	Electricity: 62-AEO201 BKWh					
Petroleum	Electricity: 62-AEO201 BKWh					
Natural Gas	Electricity: 62-AEO201 BKWh	0.091873	0.102983	0.115256	0.124638	0.161064
Other Gaseous Fuels	Electricity: 62-AEO201 BKWh					
Renewable Sources	Electricity: 62-AEO201 BKWh		0.00559	0.014099	0.024426	0.03494
Other	Electricity: 62-AEO201 BKWh					0.047019
Total	Electricity: 62-AEO201 BKWh	0.097463	0.117082	0.139682	0.159578	0.208083
Sales to the Grid	Electricity: 62-AEO201 BKWh	0.058378	0.062395	0.066609	0.070044	0.070384
Generation for Own Use	Electricity: 62-AEO201 BKWh	0.039086	0.054687	0.073073	0.089533	0.137699
Total Electricity Generation	Electricity: 62-AEO201 BKWh	71.27985	65.19527	67.18773	72.40427	73.99715
End-Use Prices	62-AEO2016.106.					
(2015 cents per kilowatthour)	62-AEO2016.107.					
Residential	Electricity: 62-AEO201 2015 cents	12.09173	12.1965	12.24375	12.05993	12.13702
Commercial	Electricity: 62-AEO201 2015 cents	10.03587	9.688845	9.68672	9.6305	9.717219
Industrial	Electricity: 62-AEO201 2015 cents	7.853609	7.536975	7.478603	7.442873	7.533124
Transportation	Electricity: 62-AEO201 2015 cents	11.32231	13.11341	13.95861	14.3929	14.66082
All Sectors Average	Electricity: 62-AEO201 2015 cents	10.24878	10.03861	10.07699	9.9796	10.07449

(nominal cents per kilowatthour)											
Residential	62-AEO2016.113.	Electricity: 62-AEO201 nom cents,	11.9667	12.1965	12.47019	12.53998	12.86727				
Commercial		Electricity: 62-AEO201 nom cents,	9.9321	9.688845	9.865864	10.01384	10.30188				
Industrial		Electricity: 62-AEO201 nom cents,	7.7724	7.536976	7.616911	7.739136	7.986371				
Transportation		Electricity: 62-AEO201 nom cents,	11.20523	13.11341	14.21676	14.96581	15.54292				
All Sectors Average		Electricity: 62-AEO201 nom cents,	10.1428	10.03861	10.26335	10.37684	10.68065				
Prices by Service Category											
(2015 cents per kilowatthour)											
Generation	62-AEO2016.121.	Electricity: 62-AEO201 2015 cents	6.814224	6.518501	6.43928	6.293735	6.292253				
Transmission		Electricity: 62-AEO201 2015 cents	1.015802	1.045555	1.090412	1.114726	1.15668				
Distribution		Electricity: 62-AEO201 2015 cents	2.41875	2.474553	2.547296	2.571138	2.625556				
(nominal cents per kilowatthour)											
Generation		Electricity: 62-AEO201 nom cents,	6.743763	6.518501	6.558367	6.544258	6.670841				
Transmission		Electricity: 62-AEO201 nom cents,	1.005298	1.045555	1.110577	1.159098	1.226275				
Distribution		Electricity: 62-AEO201 nom cents,	2.393739	2.474553	2.594405	2.673482	2.783528				
Fuel Consumption (quadrillion Btu)											
Coal	62-AEO2016.130.	Electricity: 62-AEO201 quads	0.504826	0.439879	0.439802	0.491056	0.480635				
Natural Gas		Electricity: 62-AEO201 quads	0.045575	0.033181	0.030979	0.022322	0.021395				
Oil		Electricity: 62-AEO201 quads	0.001494	0.001767	0.001768	0.001981	0.001939				
Total		Electricity: 62-AEO201 quads	0.551895	0.474827	0.472549	0.51536	0.503969				
Fuel Prices to the Electric Power Sector											
(2015 dollars per million Btu)											
Coal	62-AEO2016.137.	Electricity: 62-AEO201 2015 \$/MM	1.961943	1.866259	1.663499	1.641815	1.82723				
Natural Gas		Electricity: 62-AEO201 2015 \$/MM	5.554363	3.213068	3.70918	4.141064	4.438976				
Distillate Fuel Oil		Electricity: 62-AEO201 2015 \$/MM	24.18631	15.15309	11.69005	13.22918	14.49766				
Residual Fuel Oil		Electricity: 62-AEO201 2015 \$/MM	11.90122	4.675263	2.582042	4.447128	5.391228				
(nominal dollars per million Btu)											
Coal		Electricity: 62-AEO201 nom \$/MM	1.941656	1.866259	1.694263	1.707167	1.937169				
Natural Gas		Electricity: 62-AEO201 nom \$/MM	5.50	3.21	3.78	4.31	4.71				
			-42%	18%	14%	9%					
Distillate Fuel Oil		Electricity: 62-AEO201 nom \$/MM	23.93622	15.15309	11.90625	13.75577	15.36995				
Residual Fuel Oil		Electricity: 62-AEO201 nom \$/MM	11.77816	4.675263	2.629794	4.624146	5.715604				
Emissions from the Electric Power Sector											
Total Carbon (million short tons)		Electricity: 62-AEO201 MMSt	15.21285	13.53218	13.48921	14.8651	14.54121				

Carbon Dioxide (million short tons)	Electricity: 62-AEO201 MMst	55.78043	49.618	49.46043	54.50537	53.31781
Sulfur Dioxide (million short tons)	Electricity: 62-AEO201 MMst	0.071216	0.021023	0.01073	0.017159	0.014931
Nitrogen Oxide (million short tons)	Electricity: 62-AEO201 MMst	0.04	0.037564	0.034094	0.040539	0.039635
Mercury (short tons)	Electricity: 62-AEO201st	0.709685	0.662081	0.148802	0.166945	0.165716

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	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
7.574	7.4771	7.4771	7.1371	7.5012	7.5012	7.5012	7.5012	7.5012	7.5012	7.5012	7.5012	7.5012	7.5012
1.7657	1.7657	1.736	1.3458	0.8428	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524
1.4762	1.4762	1.4762	1.4762	1.4762	1.4762	1.4762	1.4762	1.4762	1.4762	1.4762	1.4762	1.4762	1.4762
5.265181	4.904281	4.904281	4.904281	4.904281	4.904281	4.998575	5.062193	5.130508	5.23558	5.352439	5.484214	5.648769	
1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175
6.304912	7.262854	7.867619	7.867619	7.867619	7.867619	7.911067	7.963256	8.01675	8.06988	8.129506	8.194586	8.194586	
23.56099	24.03144	24.246	23.403	23.4483	22.9243	23.06204	23.17785	23.29966	23.45786	23.63435	23.8312	23.99575	
0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
0.0837	0.0837	0.0837	0.0837	0.0837	0.0837	0.0837	0.0837	0.0837	0.0837	0.0837	0.0837	0.0837	0.0837
0.4538	0.4538	0.4538	0.4538	0.4538	0.4538	0.4538	0.4538	0.4538	0.4538	0.4538	0.4538	0.4538	0.4538
0.6755	0.6755	0.6755	0.6755	0.6755	0.6755	0.6755	0.6755	0.6755	0.6755	0.6755	0.6755	0.6755	0.6755
0.197881	0.197881	0.197881	0.197881	0.197881	0.197881	0.197881	0.293676	0.358393	0.426708	0.53178	0.648639	0.780414	0.944969

1.869712	2.827654	3.432418	3.432418	3.432418	3.432418	3.475867	3.528056	3.58155	3.634681	3.694306	3.759386	3.759386
2.067593	3.025535	3.630299	3.630299	3.630299	3.630299	3.769543	3.886449	4.008258	4.166461	4.342946	4.539799	4.704354
2.743093	3.701035	4.305799	4.305799	4.305799	4.305799	4.445043	4.561949	4.683758	4.841961	5.018445	5.215299	5.379854
0.4058	0.5027	0.5027	0.8427	0.8427	0.8427	0.8427	0.8427	0.8427	0.8427	0.8427	0.8427	0.8427
	0.0297	0.4199	0.9229	1.2417	1.7657	1.7657	1.7657	1.7657	1.7657	1.7657	1.7657	1.7657
0.318	0.6789	0.6789	0.6789	0.6789	0.6789	0.6804	0.6815	0.6815	0.6815	0.6815	0.6815	0.6815
0.7238	1.2113	1.6015	2.4445	2.7633	3.2873	3.2888	3.2899	3.2899	3.2899	3.2899	3.2899	3.2899
0.0388	0.040375	0.042141	0.044074	0.046193	0.048521	0.051133	0.054134	0.057464	0.061038	0.064962	0.069363	0.073944
0.044218	0.05406	0.06411	0.06849	0.069632	0.071146	0.073247	0.075739	0.07867	0.08195	0.085511	0.089425	0.093543
0.083017	0.094435	0.106251	0.112564	0.115825	0.119666	0.12438	0.129873	0.136133	0.142988	0.150473	0.158787	0.167487
22.52635	22.23541	22.14092	22.19261	22.30241	22.4398	22.55163	22.67584	22.81081	22.95341	23.10486	23.20569	23.29983
25.57094	25.73435	25.94874	26.21376	26.50351	26.80255	27.10178	27.40197	27.69633	27.99715	28.30304	28.55822	28.80448
15.29925	15.61821	15.9272	16.18793	16.49684	16.71932	16.91426	17.07323	17.20017	17.20281	17.24234	17.26997	17.27218
0.083738	0.099283	0.119615	0.143906	0.170109	0.198372	0.222759	0.25482	0.280507	0.305258	0.329748	0.353649	0.376441
63.48027	63.68725	64.13647	64.7382	65.47287	66.16005	66.79543	67.40586	67.98782	68.45862	68.97998	69.38754	69.75292
4.266322	4.958699	4.157194	5.17392	4.686457	3.755686	3.893649	3.148125	2.900856	3.25192	3.650377	2.993398	2.69269

16.66411	21.23984	22.71935	21.65574	23.08073	21.82966	21.88537	20.7371	20.21587	20.076	20.18895	18.77175	18.15309
0.074072	0.078036	0.08251	0.086714	0.090649	0.094931	0.099676	0.104864	0.110397	0.116088	0.12208	0.128649	0.135433
81.02782	85.07511	87.78056	86.28915	88.99042	89.40766	90.00623	90.25755	90.60612	90.61778	90.88905	90.5621	90.63193
68.7041	68.872	69.30092	69.89404	70.6868	71.42861	72.11419	72.77345	73.40151	73.90978	74.47256	74.91239	75.30696
47.42303	47.50789	47.33809	45.13877	47.85009	48.07303	48.4076	48.40547	48.16682	48.00951	48.00073	47.43369	47.41997
0.191039	0.191316	0.190635	0.182929	0.193815	0.194748	0.196092	0.196083	0.195125	0.194493	0.194458	0.19218	0.192124
3.232345	3.379821	3.604052	3.833042	3.809832	3.994356	4.117049	4.179681	4.539468	4.492811	4.535767	4.52067	4.566968
8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	8.56901
0.001377	0.001377	0.001377	0.001377	0.001377	0.001377	0.001377	0.001377	0.001669	0.001976	0.002129	0.002232	0.002312
21.67669	25.49136	28.14306	28.62968	28.63196	28.64081	28.78077	28.97131	29.19939	29.41549	29.65251	29.9099	29.94721
81.09349	85.14078	87.84623	86.35481	89.05608	89.47333	90.0719	90.32322	90.67178	90.68344	90.95471	90.62776	90.69759
81.02782	85.07511	87.78056	86.28915	88.99042	89.40766	90.00623	90.25755	90.60612	90.61778	90.88905	90.5621	90.63193
0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.06567
0.169962	0.179046	0.189	0.19969	0.211156	0.223623	0.237447	0.253067	0.270327	0.288826	0.308966	0.33126	0.354441
0.060164	0.073681	0.087493	0.093516	0.095132	0.09728	0.100284	0.103857	0.10807	0.112799	0.117944	0.123607	0.12958
0.230126	0.252727	0.276493	0.293206	0.306288	0.320903	0.337731	0.356924	0.378397	0.401624	0.42691	0.454867	0.484021
0.074072	0.078036	0.08251	0.086714	0.090649	0.094931	0.099676	0.104864	0.110397	0.116088	0.12208	0.128649	0.135433
0.156054	0.174692	0.193983	0.206491	0.215639	0.225972	0.238055	0.252061	0.268	0.285536	0.30483	0.326219	0.348588
81.32362	85.3935	88.12273	86.64802	89.36237	89.79423	90.40963	90.68015	91.05018	91.08507	91.38162	91.08263	91.18162
12.22296	12.08189	11.91075	11.76054	11.61544	11.52665	11.49147	11.43237	11.45395	11.43922	11.43832	11.48299	11.53337
9.771399	9.604926	9.457642	9.313212	9.159344	9.059777	9.004432	8.933638	8.943477	8.925014	8.916671	8.946746	8.983862
7.539436	7.419025	7.324804	7.227237	7.102014	7.030406	6.993533	6.987924	7.026441	7.02956	7.058362	7.125892	7.179746
15.01774	14.92152	14.79806	14.68074	14.56654	14.47232	14.42166	14.1954	14.15362	14.08741	13.98443	13.91495	13.90915
10.11035	9.941954	9.784801	9.642498	9.491652	9.399864	9.353373	9.301291	9.32228	9.314715	9.321016	9.367084	9.41533

13.21704	13.34598	13.4511	13.56423	13.66154	13.81004	14.02463	14.22057	14.5275	14.80107	15.1084	15.49449	15.91104
10.56609	10.60986	10.68075	10.74156	10.7728	10.85449	10.98935	11.11243	11.34337	11.54797	11.77766	12.07223	12.39382
8.152605	8.195253	8.272082	8.335665	8.353063	8.423106	8.535174	8.692187	8.911914	9.095466	9.323096	9.615274	9.904928
16.23911	16.48271	16.71181	16.93229	17.13249	17.33924	17.60075	17.65747	17.9516	18.22753	18.47145	18.77604	19.18858
10.93261	10.98215	11.05022	11.12135	11.16365	11.26195	11.41521	11.56975	11.82382	12.0522	12.31174	12.63941	12.98906
6.226428	6.041923	5.897929	5.780801	5.643837	5.556292	5.509611	5.456153	5.480128	5.470903	5.475227	5.518418	5.565322
1.208838	1.230613	1.236131	1.230117	1.222925	1.218912	1.216625	1.215752	1.214291	1.213595	1.21182	1.211156	1.210786
2.675086	2.669418	2.65074	2.631581	2.624889	2.62466	2.627137	2.629385	2.627861	2.630216	2.633969	2.63751	2.639222
6.732811	6.67407	6.660678	6.667391	6.638022	6.656975	6.724139	6.786838	6.950664	7.078738	7.231998	7.44624	7.677725
1.30715	1.359367	1.395993	1.418777	1.438348	1.460375	1.484816	1.512258	1.540133	1.570256	1.600642	1.634265	1.670358
2.892646	2.948711	2.993546	3.035181	3.087274	3.144597	3.206258	3.270658	3.333021	3.403206	3.4791	3.558906	3.640979
0.506877	0.507946	0.50603	0.481532	0.510805	0.513185	0.516956	0.516934	0.51425	0.512486	0.512393	0.506018	0.505876
0.027285	0.029338	0.03143	0.033642	0.03331	0.03497	0.036038	0.036446	0.039658	0.039164	0.03939	0.038757	0.03876
0.002044	0.002047	0.002039	0.001956	0.002074	0.002084	0.002099	0.002099	0.002089	0.002081	0.002081	0.002056	0.002055
0.536206	0.539332	0.5395	0.51713	0.546189	0.550238	0.555094	0.555479	0.555996	0.553731	0.553864	0.546831	0.546691
1.839412	1.852916	1.883952	1.908286	1.939153	1.966214	1.991267	2.020471	2.051547	2.086544	2.119779	2.152951	2.188478
4.759459	5.077534	5.212084	5.28473	5.503689	5.651329	5.814015	5.813277	5.701366	5.647802	5.592993	5.567693	5.586568
16.40682	17.02642	17.37551	17.51706	17.94663	18.33166	18.79032	19.37787	19.84681	20.23567	20.70672	21.04569	21.63587
7.35708	8.336061	9.083159	9.6624	10.06906	10.40708	10.79367	11.32077	11.68915	11.96215	12.28565	12.53941	13.02502
1.989008	2.046781	2.127594	2.200956	2.280743	2.355715	2.430218	2.513237	2.602058	2.699754	2.799927	2.90507	3.019148
\$ 5.15	\$ 5.61	\$ 5.89	\$ 6.10	\$ 6.47	\$ 6.77	\$ 7.10	\$ 7.23	\$ 7.23	\$ 7.31	\$ 7.39	\$ 7.51	\$ 7.71
9%	9%	5%	4%	6%	5%	5%	2%	0%	1%	1%	2%	3%
17.74115	18.80784	19.6226	20.20362	21.10801	21.9631	22.93243	24.10388	25.17249	26.1827	27.35065	28.39786	29.8481
7.955417	9.208236	10.25784	11.1443	11.84276	12.46868	13.173	14.08176	14.82581	15.47768	16.2276	16.91997	17.96887
15.4096	15.47426	15.45181	14.76198	15.6205	15.71568	15.84231	15.86466	15.81778	15.76014	15.75566	15.57333	15.55204

56.50188	56.73896	56.65662	54.12729	57.27515	57.62418	58.08848	58.17042	57.99851	57.78716	57.77419	57.1022	57.02412
0.017411	0.01348	0.016655	0.011317	0.013026	0.012696	0.013925	0.015501	0.013609	0.01298	0.013471	0.01432	0.01169
0.043082	0.042807	0.042603	0.038849	0.040389	0.040046	0.041237	0.041329	0.041063	0.040854	0.040733	0.039563	0.039414
0.174554	0.174777	0.175246	0.165638	0.176139	0.175514	0.178018	0.169911	0.17729	0.17409	0.17657	0.166757	0.174079

2032 2033 2034 2035 2036 2037 2038 2039 2040 Growth (2015-2040)

7.5012 7.5012 7.5012 7.5012 7.5012 7.5012 7.5012 7.5012 7.5012 7.5012
 0.524 0.524 0.524 0.524 0.524 0.524 0.524 0.524 0.524 0.524
 1.4762 1.4762 1.4762 1.519636 1.519636 1.519636 1.519636 1.519636 1.519636 1.519636
 5.68785 5.801043 5.915404 5.943165 6.04705 6.210127 6.33753 6.50614 6.632342 6.632342
 1.175 1.175 1.175 1.175 1.175 1.175 1.175 1.175 1.175 1.175

8.227942 8.270654 8.331746 8.331746 8.366163 8.366163 8.404995 8.404995 8.441779 8.441779
 24.06819 24.2241 24.39955 24.47075 24.60905 24.77213 24.93836 25.10697 25.26996 25.26996
 0.60%

0.138 0.138 0.138 0.138 0.138 0.138 0.138 0.138 0.138 0.138
 0.0837 0.0837 0.0837 0.0837 0.0837 0.0837 0.0837 0.0837 0.0837 0.0837

0.4538 0.4538 0.4538 0.4538 0.4538 0.4538 0.4538 0.4538 0.4538 0.4538
 0.6755 0.6755 0.6755 0.6755 0.6755 0.6755 0.6755 0.6755 0.6755 0.6755

0.98405 1.097243 1.211604 1.313165 1.41705 1.580127 1.70753 1.87614 2.002342 2.002342
 0.043436 0.043436 0.043436 0.043436 0.043436 0.043436 0.043436 0.043436 0.043436 0.043436

3.792743	3.835454	3.896546	3.896546	3.930963	3.930963	3.969795	3.969795	4.006579	
4.776793	4.932697	5.10815	5.253148	5.391449	5.554526	5.720761	5.889371	6.052358	
5.452292	5.608197	5.78365	5.928648	6.066949	6.230026	6.396261	6.564871	6.727858	
0.8427	0.8427	0.8427	0.8427	0.8427	0.8427	0.8427	0.8427	0.8427	
1.7657	1.7657	1.7657	1.7657	1.7657	1.7657	1.7657	1.7657	1.7657	
0.6815	0.6815	0.6815	0.7553	0.7553	0.7553	0.7553	0.7553	0.7553	
3.2899	3.2899	3.2899	3.3637	3.3637	3.3637	3.3637	3.3637	3.3637	
0.078688	0.083625	0.088842	0.094377	0.098666	0.102067	0.104885	0.107458	0.11007	5.00%
0.097823	0.102147	0.10653	0.111031	0.115485	0.119949	0.124456	0.128981	0.133543	10.80%
0.17651	0.185772	0.195372	0.205408	0.214152	0.2222016	0.229341	0.236439	0.243613	7.20%
23.39945	23.52509	23.67816	23.85238	24.01943	24.18198	24.34133	24.508	24.68792	0.60%
29.05975	29.34042	29.63679	29.93819	30.23418	30.53375	30.82828	31.12418	31.41855	0.80%
17.2903	17.32973	17.36387	17.39477	17.46215	17.53318	17.64368	17.70599	17.78871	0.70%
0.397867	0.418049	0.43686	0.453804	0.469424	0.483643	0.496242	0.507795	0.518508	10.60%
70.14735	70.61328	71.11568	71.63914	72.18517	72.73254	73.30953	73.84596	74.41368	0.70%
2.936316	2.415178	2.575933	2.769439	2.687488	2.857286	1.327502	1.058799	1.334687	-4.70%

18.00405	17.87856	18.06473	17.76134	17.28189	16.82559	14.80871	13.90036	13.68538	8.70%
0.142163	0.149177	0.156612	0.164706	0.172216	0.179407	0.186516	0.194271	0.20328	4.80%
90.6582	91.54982	92.11007	92.16998	92.35446	92.31187	92.44051	92.37199	92.48518	1.40%
75.73263	76.23561	76.77789	77.34278	77.93228	78.52296	79.14582	79.7247	80.33776	0.70%
47.40782	47.59981	47.58752	47.57569	47.56101	47.54667	47.53543	47.52184	47.50995	0.50%
0.192076	0.192843	0.192815	0.19275	0.192692	0.192634	0.192588	0.192534	0.192485	0.60%
4.498325	5.033693	5.36808	5.389176	5.477425	5.421422	5.415362	5.329005	5.33577	1.70%
8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	8.56901	-0.10%
0.002519	0.002618	0.002716	0.003197	0.003283	0.003384	0.003403	0.003486	0.003506	7.30%
30.05412	30.21752	30.45559	30.50582	30.61671	30.64442	30.79039	30.82177	30.94012	4.20%
90.72386	91.61549	92.17574	92.23564	92.42013	92.37753	92.50618	92.43765	92.55084	1.40%
90.6582	91.54982	92.11007	92.16998	92.35446	92.31187	92.44051	92.37199	92.48518	1.40%
0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.06567	0.00%
0.377974	0.402279	0.427684	0.454505	0.476426	0.494556	0.51019	0.525183	0.540996	6.90%
0.1358	0.142088	0.148464	0.155012	0.161495	0.167991	0.174552	0.181139	0.18778	10.90%
0.513774	0.544367	0.576148	0.609517	0.637921	0.662547	0.684742	0.706321	0.728776	7.60%
0.142163	0.149177	0.156612	0.164706	0.172216	0.179407	0.186516	0.194271	0.20328	4.80%
0.371611	0.39519	0.419536	0.444811	0.465705	0.48314	0.498226	0.51205	0.525496	9.50%
91.23763	92.15985	92.75188	92.84516	93.05805	93.04008	93.19092	93.14397	93.27962	1.40%
11.52912	11.41443	11.26176	11.22478	11.19311	11.16813	11.14614	11.11904	11.1175	-0.40%
8.971337	8.85821	8.709266	8.674335	8.640688	8.613256	8.58566	8.559811	8.555353	-0.50%
7.18802	7.123306	7.041264	7.028285	7.017284	7.00583	7.000553	6.99554	7.004627	-0.30%
13.83673	13.57348	13.20924	13.1062	12.9995	12.92228	12.82586	12.73471	12.68847	-0.10%
9.412586	9.311967	9.179503	9.151905	9.125634	9.103857	9.083039	9.062812	9.063481	-0.40%

16.26766	16.47914	16.63645	16.96332	17.2969	17.63957	17.99273	18.33549	18.71705	1.70%
12.65861	12.78869	12.86578	13.10898	13.35259	13.60426	13.85946	14.11527	14.40351	1.60%
10.14234	10.28399	10.40172	10.62141	10.84392	11.0654	11.30069	11.53576	11.79276	1.80%
19.5237	19.59618	19.51337	19.80659	20.08834	20.41017	20.70422	20.99974	21.36189	2.00%
13.28122	13.44378	13.56044	13.8307	14.10199	14.37914	14.66235	14.94473	15.25898	1.70%
5.564918	5.463193	5.323556	5.298555	5.269593	5.251219	5.228405	5.210036	5.207125	-0.90%
1.207537	1.205862	1.207551	1.208722	1.213498	1.214177	1.216689	1.219326	1.222732	0.60%
2.640132	2.642911	2.648396	2.644627	2.642543	2.638462	2.637944	2.63345	2.633624	0.20%
7.852132	7.887269	7.864232	8.007377	8.143188	8.294069	8.439986	8.591434	8.766541	1.20%
1.703841	1.740916	1.783857	1.826667	1.875238	1.917739	1.964048	2.010689	2.058552	2.70%
3.725242	3.815598	3.912347	3.996661	4.083564	4.167334	4.258318	4.342603	4.433882	2.40%
0.505743	0.507925	0.507779	0.507654	0.507498	0.507346	0.507226	0.507082	0.506956	0.60%
0.038386	0.043287	0.045509	0.04551	0.045942	0.045425	0.045305	0.044584	0.044645	1.20%
0.002054	0.002063	0.002063	0.002062	0.002061	0.002061	0.00206	0.00206	0.002059	0.60%
0.546183	0.553275	0.555352	0.555226	0.555501	0.554832	0.554592	0.553726	0.55366	0.60%
2.221019	2.243543	2.272595	2.292622	2.316428	2.338707	2.362743	2.383489	2.411772	1.00%
5.708795	5.757101	5.802251	5.796906	5.71484	5.735487	5.760739	5.76815	5.697744	2.30%
22.25459	22.86437	23.61338	23.99787	24.66942	25.08139	25.75888	26.43174	27.07738	2.30%
13.55116	14.08722	14.73964	14.98019	15.56631	15.86523	16.42111	17.05493	17.58353	5.40%
3.133871	3.239026	3.357194	3.464697	3.579614	3.693884	3.814072	3.930412	4.06038	3.20%
\$ 8.06	\$ 8.31	\$ 8.57	\$ 8.76	\$ 8.83	\$ 9.06	\$ 9.30	\$ 9.51	\$ 9.59	4.50%
5%	3%	3%	2%	1%	3%	3%	2%	1%	2.78%
31.40136	33.00953	34.8829	36.26649	38.12206	39.61495	41.58143	43.58637	45.58657	4.50%
19.12077	20.33787	21.77416	22.63863	24.05487	25.05844	26.50787	28.12385	29.60304	7.70%
15.54492	15.68346	15.73437	15.70906	15.65201	15.62133	15.61345	15.58783	15.60352	0.60%

56.99806	57.50604	57.69271	57.59985	57.39072	57.2782	57.24929	57.15539	57.21291	0.60%
0.01243	0.01197	0.01489	0.012671	0.013271	0.013344	0.014145	0.013434	0.01465	-1.40%
0.03947	0.040096	0.040184	0.040059	0.040304	0.040115	0.04009	0.039956	0.039876	0.20%
0.171744	0.174045	0.164614	0.17461	0.160067	0.152795	0.149023	0.154042	0.145632	-5.90%

PEAK	OFF PEAK	FLAT	PEAK	OFF PEAK
2017 \$	28.86 \$	17.79 \$	46.5%	53.5%
2018 \$	27.31 \$	18.08 \$		
2019 \$	29.86 \$	19.77 \$		
2020 \$	32.55 \$	21.54 \$		
2021 \$	34.16 \$	22.61 \$		
2022 \$	35.37 \$	23.41 \$		
2023 \$	37.56 \$	24.86 \$		
2024 \$	39.29 \$	26.01 \$		
2025 \$	41.17 \$	27.25 \$		
2026 \$	41.96 \$	27.77 \$		
2027 \$	41.96 \$	27.77 \$		
2028 \$	42.40 \$	28.07 \$		
2029 \$	42.87 \$	28.37 \$		
2030 \$	43.59 \$	28.85 \$		
2031 \$	44.72 \$	29.60 \$		
2032 \$	46.74 \$	30.94 \$		
2033 \$	48.23 \$	31.92 \$		
2034 \$	49.74 \$	32.92 \$		
2035 \$	50.84 \$	33.65 \$		
2036 \$	51.25 \$	33.92 \$		

Date	On Peak	Off Peak
Jan-17	\$ 31.45	\$ 25.25
Feb-17	\$ 31.50	\$ 22.00
Mar-17	\$ 30.00	\$ 17.90
Apr-17	\$ 27.75	\$ 14.00
May-17	\$ 27.45	\$ 15.95
Jun-17	\$ 26.45	\$ 15.55
Jul-17	\$ 36.20	\$ 17.85
Aug-17	\$ 32.70	\$ 15.55
Sep-17	\$ 28.80	\$ 16.10
Oct-17	\$ 23.85	\$ 17.05
Nov-17	\$ 23.80	\$ 16.30
Dec-17	\$ 26.40	\$ 19.95
Jan-18	\$ 35.05	\$ 26.45
Feb-18	\$ 32.65	\$ 24.10
Mar-18	\$ 26.90	\$ 19.55
Apr-18	\$ 24.45	\$ 18.45
May-18	\$ 25.30	\$ 14.55
Jun-18	\$ 25.10	\$ 15.20
Jul-18	\$ 31.70	\$ 16.85
Aug-18	\$ 28.80	\$ 16.50
Sep-18	\$ 24.25	\$ 14.50
Oct-18	\$ 24.40	\$ 16.10
Nov-18	\$ 24.30	\$ 16.95
Dec-18	\$ 24.80	\$ 17.70
Jan-19	\$ 38.33	\$ 28.93
Feb-19	\$ 35.71	\$ 26.36
Mar-19	\$ 29.42	\$ 21.38
Apr-19	\$ 26.74	\$ 20.18
May-19	\$ 27.67	\$ 15.91
Jun-19	\$ 27.45	\$ 16.62
Jul-19	\$ 34.67	\$ 18.43
Aug-19	\$ 31.50	\$ 18.04
Sep-19	\$ 26.52	\$ 15.86
Oct-19	\$ 26.68	\$ 17.61
Nov-19	\$ 26.57	\$ 18.54
Dec-19	\$ 27.12	\$ 19.36
Jan-20	\$ 41.77	\$ 31.52
Feb-20	\$ 38.91	\$ 28.72
Mar-20	\$ 32.06	\$ 23.30
Apr-20	\$ 29.14	\$ 21.99
May-20	\$ 30.15	\$ 17.34
Jun-20	\$ 29.91	\$ 18.12
Jul-20	\$ 37.78	\$ 20.08
Aug-20	\$ 34.32	\$ 19.67
Sep-20	\$ 28.90	\$ 17.28

Oct-20	\$ 29.08	\$ 19.19
Nov-20	\$ 28.96	\$ 20.20
Dec-20	\$ 29.56	\$ 21.10
Jan-21	\$ 43.84	\$ 33.08
Feb-21	\$ 40.84	\$ 30.14
Mar-21	\$ 33.65	\$ 24.45
Apr-21	\$ 30.58	\$ 23.08
May-21	\$ 31.64	\$ 18.20
Jun-21	\$ 31.39	\$ 19.01
Jul-21	\$ 39.65	\$ 21.08
Aug-21	\$ 36.02	\$ 20.64
Sep-21	\$ 30.33	\$ 18.14
Oct-21	\$ 30.52	\$ 20.14
Nov-21	\$ 30.39	\$ 21.20
Dec-21	\$ 31.02	\$ 22.14
Jan-22	\$ 45.40	\$ 34.26
Feb-22	\$ 42.29	\$ 31.21
Mar-22	\$ 34.84	\$ 25.32
Apr-22	\$ 31.67	\$ 23.90
May-22	\$ 32.77	\$ 18.85
Jun-22	\$ 32.51	\$ 19.69
Jul-22	\$ 41.06	\$ 21.82
Aug-22	\$ 37.30	\$ 21.37
Sep-22	\$ 31.41	\$ 18.78
Oct-22	\$ 31.60	\$ 20.85
Nov-22	\$ 31.47	\$ 21.95
Dec-22	\$ 32.12	\$ 22.92
Jan-23	\$ 48.21	\$ 36.38
Feb-23	\$ 44.91	\$ 33.15
Mar-23	\$ 37.00	\$ 26.89
Apr-23	\$ 33.63	\$ 25.38
May-23	\$ 34.80	\$ 20.01
Jun-23	\$ 34.53	\$ 20.91
Jul-23	\$ 43.60	\$ 23.18
Aug-23	\$ 39.61	\$ 22.70
Sep-23	\$ 33.36	\$ 19.94
Oct-23	\$ 33.56	\$ 22.15
Nov-23	\$ 33.42	\$ 23.31
Dec-23	\$ 34.11	\$ 24.35
Jan-24	\$ 50.43	\$ 38.05
Feb-24	\$ 46.98	\$ 34.67
Mar-24	\$ 38.70	\$ 28.13
Apr-24	\$ 35.18	\$ 26.54
May-24	\$ 36.40	\$ 20.93
Jun-24	\$ 36.11	\$ 21.87
Jul-24	\$ 45.61	\$ 24.24
Aug-24	\$ 41.44	\$ 23.74

Sep-24	\$ 34.89	\$ 20.86
Oct-24	\$ 35.11	\$ 23.16
Nov-24	\$ 34.96	\$ 24.39
Dec-24	\$ 35.68	\$ 25.47
Jan-25	\$ 52.85	\$ 39.88
Feb-25	\$ 49.23	\$ 36.34
Mar-25	\$ 40.56	\$ 29.48
Apr-25	\$ 36.86	\$ 27.82
May-25	\$ 38.15	\$ 21.94
Jun-25	\$ 37.84	\$ 22.92
Jul-25	\$ 47.80	\$ 25.41
Aug-25	\$ 43.42	\$ 24.88
Sep-25	\$ 36.56	\$ 21.86
Oct-25	\$ 36.79	\$ 24.28
Nov-25	\$ 36.64	\$ 25.56
Dec-25	\$ 37.39	\$ 26.69
Jan-26	\$ 53.86	\$ 40.64
Feb-26	\$ 50.17	\$ 37.03
Mar-26	\$ 41.33	\$ 30.04
Apr-26	\$ 37.57	\$ 28.35
May-26	\$ 38.87	\$ 22.36
Jun-26	\$ 38.57	\$ 23.36
Jul-26	\$ 48.71	\$ 25.89
Aug-26	\$ 44.25	\$ 25.35
Sep-26	\$ 37.26	\$ 22.28
Oct-26	\$ 37.49	\$ 24.74
Nov-26	\$ 37.34	\$ 26.04
Dec-26	\$ 38.11	\$ 27.20
Jan-27	\$ 53.86	\$ 40.64
Feb-27	\$ 50.17	\$ 37.03
Mar-27	\$ 41.33	\$ 30.04
Apr-27	\$ 37.57	\$ 28.35
May-27	\$ 38.88	\$ 22.36
Jun-27	\$ 38.57	\$ 23.36
Jul-27	\$ 48.71	\$ 25.89
Aug-27	\$ 44.25	\$ 25.35
Sep-27	\$ 37.26	\$ 22.28
Oct-27	\$ 37.49	\$ 24.74
Nov-27	\$ 37.34	\$ 26.05
Dec-27	\$ 38.11	\$ 27.20
Jan-28	\$ 54.43	\$ 41.07
Feb-28	\$ 50.70	\$ 37.42
Mar-28	\$ 41.77	\$ 30.36
Apr-28	\$ 37.97	\$ 28.65
May-28	\$ 39.29	\$ 22.59
Jun-28	\$ 38.98	\$ 23.60
Jul-28	\$ 49.22	\$ 26.16

Aug-28	\$ 44.72	\$ 25.62
Sep-28	\$ 37.66	\$ 22.52
Oct-28	\$ 37.89	\$ 25.00
Nov-28	\$ 37.73	\$ 26.32
Dec-28	\$ 38.51	\$ 27.48
Jan-29	\$ 55.02	\$ 41.52
Feb-29	\$ 51.25	\$ 37.83
Mar-29	\$ 42.23	\$ 30.69
Apr-29	\$ 38.38	\$ 28.96
May-29	\$ 39.72	\$ 22.84
Jun-29	\$ 39.40	\$ 23.86
Jul-29	\$ 49.76	\$ 26.45
Aug-29	\$ 45.21	\$ 25.90
Sep-29	\$ 38.07	\$ 22.76
Oct-29	\$ 38.30	\$ 25.27
Nov-29	\$ 38.15	\$ 26.61
Dec-29	\$ 38.93	\$ 27.79
Jan-30	\$ 55.95	\$ 42.22
Feb-30	\$ 52.12	\$ 38.47
Mar-30	\$ 42.94	\$ 31.21
Apr-30	\$ 39.03	\$ 29.45
May-30	\$ 40.39	\$ 23.23
Jun-30	\$ 40.07	\$ 24.27
Jul-30	\$ 50.61	\$ 26.90
Aug-30	\$ 45.98	\$ 26.34
Sep-30	\$ 38.71	\$ 23.15
Oct-30	\$ 38.95	\$ 25.70
Nov-30	\$ 38.79	\$ 27.06
Dec-30	\$ 39.59	\$ 28.26
Jan-31	\$ 57.40	\$ 43.32
Feb-31	\$ 53.47	\$ 39.47
Mar-31	\$ 44.05	\$ 32.02
Apr-31	\$ 40.04	\$ 30.22
May-31	\$ 41.43	\$ 23.83
Jun-31	\$ 41.11	\$ 24.89
Jul-31	\$ 51.91	\$ 27.59
Aug-31	\$ 47.17	\$ 27.02
Sep-31	\$ 39.71	\$ 23.75
Oct-31	\$ 39.96	\$ 26.37
Nov-31	\$ 39.80	\$ 27.76
Dec-31	\$ 40.61	\$ 28.99
Jan-32	\$ 59.99	\$ 45.27
Feb-32	\$ 55.89	\$ 41.25
Mar-32	\$ 46.04	\$ 33.46
Apr-32	\$ 41.85	\$ 31.58
May-32	\$ 43.30	\$ 24.90
Jun-32	\$ 42.96	\$ 26.02

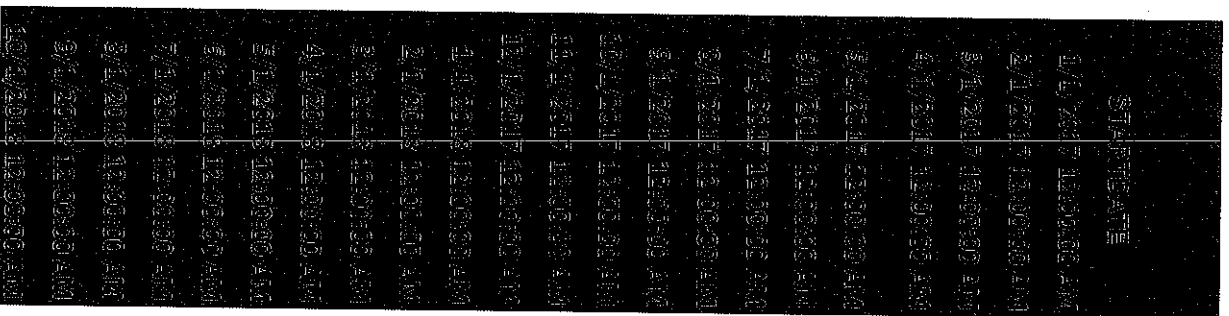
Jul-32	\$ 54.26	\$ 28.84
Aug-32	\$ 49.30	\$ 28.24
Sep-32	\$ 41.51	\$ 24.82
Oct-32	\$ 41.76	\$ 27.56
Nov-32	\$ 41.59	\$ 29.01
Dec-32	\$ 42.45	\$ 30.30
Jan-33	\$ 61.90	\$ 46.71
Feb-33	\$ 57.66	\$ 42.56
Mar-33	\$ 47.51	\$ 34.53
Apr-33	\$ 43.18	\$ 32.59
May-33	\$ 44.68	\$ 25.70
Jun-33	\$ 44.33	\$ 26.85
Jul-33	\$ 55.99	\$ 29.76
Aug-33	\$ 50.87	\$ 29.14
Sep-33	\$ 42.83	\$ 25.61
Oct-33	\$ 43.09	\$ 28.43
Nov-33	\$ 42.92	\$ 29.94
Dec-33	\$ 43.80	\$ 31.26
Jan-34	\$ 63.84	\$ 48.17
Feb-34	\$ 59.47	\$ 43.89
Mar-34	\$ 48.99	\$ 35.61
Apr-34	\$ 44.53	\$ 33.60
May-34	\$ 46.08	\$ 26.50
Jun-34	\$ 45.72	\$ 27.68
Jul-34	\$ 57.74	\$ 30.69
Aug-34	\$ 52.45	\$ 30.05
Sep-34	\$ 44.17	\$ 26.41
Oct-34	\$ 44.44	\$ 29.32
Nov-34	\$ 44.26	\$ 30.87
Dec-34	\$ 45.17	\$ 32.24
Jan-35	\$ 65.25	\$ 49.24
Feb-35	\$ 60.78	\$ 44.86
Mar-35	\$ 50.08	\$ 36.39
Apr-35	\$ 45.51	\$ 34.35
May-35	\$ 47.10	\$ 27.09
Jun-35	\$ 46.72	\$ 28.30
Jul-35	\$ 59.01	\$ 31.37
Aug-35	\$ 53.61	\$ 30.72
Sep-35	\$ 45.14	\$ 26.99
Oct-35	\$ 45.42	\$ 29.97
Nov-35	\$ 45.24	\$ 31.55
Dec-35	\$ 46.17	\$ 32.95
Jan-36	\$ 65.77	\$ 49.64
Feb-36	\$ 61.27	\$ 45.23
Mar-36	\$ 50.48	\$ 36.69
Apr-36	\$ 45.88	\$ 34.62
May-36	\$ 47.48	\$ 27.30

Jun-36	\$ 47.10	\$ 28.52
Jul-36	\$ 59.49	\$ 31.62
Aug-36	\$ 54.05	\$ 30.96
Sep-36	\$ 45.51	\$ 27.21
Oct-36	\$ 45.79	\$ 30.21
Nov-36	\$ 45.60	\$ 31.81
Dec-36	\$ 46.54	\$ 33.22
Jan-37	\$ 67.47	\$ 50.92
Feb-37	\$ 62.85	\$ 46.39
Mar-37	\$ 51.78	\$ 37.63
Apr-37	\$ 47.07	\$ 35.52
May-37	\$ 48.70	\$ 28.01
Jun-37	\$ 48.32	\$ 29.26
Jul-37	\$ 61.02	\$ 32.44
Aug-37	\$ 55.44	\$ 31.76
Sep-37	\$ 46.68	\$ 27.91
Oct-37	\$ 46.97	\$ 30.99
Nov-37	\$ 46.78	\$ 32.63
Dec-37	\$ 47.74	\$ 34.07
Jan-38	\$ 69.26	\$ 52.27
Feb-38	\$ 64.52	\$ 47.62
Mar-38	\$ 53.16	\$ 38.63
Apr-38	\$ 48.31	\$ 36.46
May-38	\$ 49.99	\$ 28.75
Jun-38	\$ 49.60	\$ 30.04
Jul-38	\$ 62.64	\$ 33.30
Aug-38	\$ 56.91	\$ 32.60
Sep-38	\$ 47.92	\$ 28.65
Oct-38	\$ 48.22	\$ 31.81
Nov-38	\$ 48.02	\$ 33.49
Dec-38	\$ 49.01	\$ 34.98
Jan-39	\$ 70.84	\$ 53.46
Feb-39	\$ 65.99	\$ 48.71
Mar-39	\$ 54.37	\$ 39.51
Apr-39	\$ 49.42	\$ 37.29
May-39	\$ 51.14	\$ 29.41
Jun-39	\$ 50.73	\$ 30.72
Jul-39	\$ 64.07	\$ 34.06
Aug-39	\$ 58.21	\$ 33.35
Sep-39	\$ 49.01	\$ 29.31
Oct-39	\$ 49.32	\$ 32.54
Nov-39	\$ 49.11	\$ 34.26
Dec-39	\$ 50.13	\$ 35.77
Jan-40	\$ 71.44	\$ 53.91
Feb-40	\$ 66.55	\$ 49.12
Mar-40	\$ 54.83	\$ 39.85
Apr-40	\$ 49.84	\$ 37.61

May-40	\$ 51.57	\$ 29.66
Jun-40	\$ 51.16	\$ 30.98
Jul-40	\$ 64.62	\$ 34.35
Aug-40	\$ 58.70	\$ 33.63
Sep-40	\$ 49.43	\$ 29.56
Oct-40	\$ 49.74	\$ 32.82
Nov-40	\$ 49.53	\$ 34.55
Dec-40	\$ 50.55	\$ 36.08

peak	EIA Escalation
Sep-16 \$ 24.04	2019 9%
Oct-16 \$ 23.92	2020 9%
Nov-16 \$ 26.55	2021 5%
Dec-16 \$ 27.25	2022 4%
Jan-17 \$ 31.45	2023 6%
Feb-17 \$ 31.50	2024 5%
Mar-17 \$ 30.00	2025 5%
Apr-17 \$ 27.75	2026 2%
May-17 \$ 27.45	2027 0%
Jun-17 \$ 26.45	2028 1%
Jul-17 \$ 36.20	2029 1%
Aug-17 \$ 32.70	2030 2%
Sep-17 \$ 28.80	2031 3%
Oct-17 \$ 23.85	2032 5%
Nov-17 \$ 23.80	2033 3%
Dec-17 \$ 26.40	2034 3%
Jan-18 \$ 35.05	2035 2%
Feb-18 \$ 32.65	2036 1%
Mar-18 \$ 26.90	2037 3%
Apr-18 \$ 24.45	2038 3%
May-18 \$ 25.30	2039 2%
Jun-18 \$ 25.10	2040 1%
Jul-18 \$ 31.70	

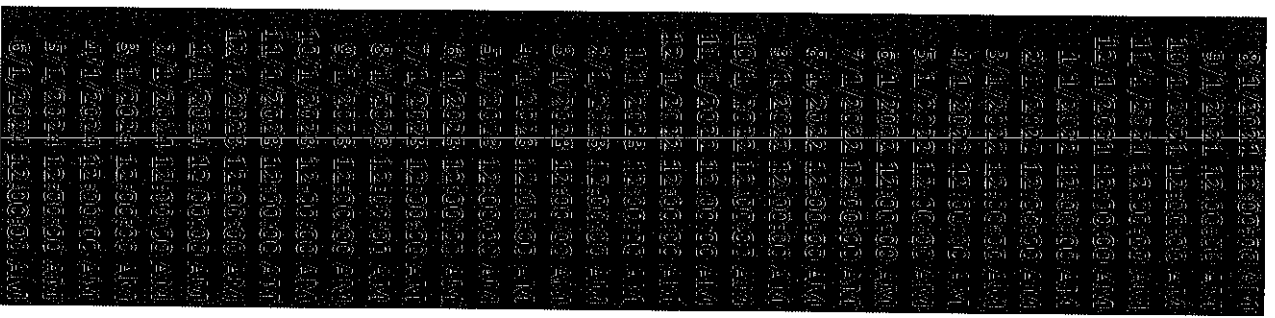
Location	vs. North Hub 10-5-
Aberdeen 1	\$ 0.32
Aberdeen 2	\$ 0.32
Beethoven	\$ 0.19
Big Stone	\$ 0.29
Coyote	\$ (0.46)
Huron 1	\$ (0.17)
Huron 2	\$ (0.17)
Neal 4	\$ 0.31
Oak Tree	\$ 0.31
Titan	\$ (0.17)
Load	\$ 0.27



Aug-18	\$	28.80
Sep-18	\$	24.25
Oct-18	\$	24.40
Nov-18	\$	24.30
Dec-18	\$	24.80
Jan-19	\$	38.33
Feb-19	\$	35.71
Mar-19	\$	29.42
Apr-19	\$	26.74
May-19	\$	27.67
Jun-19	\$	27.45
Jul-19	\$	34.67
Aug-19	\$	31.50
Sep-19	\$	26.52
Oct-19	\$	26.68
Nov-19	\$	26.57
Dec-19	\$	27.12
Jan-20	\$	41.77
Feb-20	\$	38.91
Mar-20	\$	32.06
Apr-20	\$	29.14
May-20	\$	30.15
Jun-20	\$	29.91
Jul-20	\$	37.78
Aug-20	\$	34.32
Sep-20	\$	28.90
Oct-20	\$	29.08
Nov-20	\$	28.96
Dec-20	\$	29.56
Jan-21	\$	43.84
Feb-21	\$	40.84
Mar-21	\$	33.65
Apr-21	\$	30.58

7/1/2021	12:00:00 AM
8/1/2021	12:00:00 AM
9/1/2021	12:00:00 AM
10/1/2021	12:00:00 AM
11/1/2021	12:00:00 AM
12/1/2021	12:00:00 AM
1/1/2022	12:00:00 AM
2/1/2022	12:00:00 AM
3/1/2022	12:00:00 AM
4/1/2022	12:00:00 AM
5/1/2022	12:00:00 AM
6/1/2022	12:00:00 AM
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9/1/2022	12:00:00 AM
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10/1/2026	12:00:00 AM
11/1/2026	12:00:00 AM
12/1/2026	12:00:00 AM
1/1/2027	12:00:00 AM
2/1/2027	12:00:00 AM
3/1/2027	12:00:00 AM
4/1/2027	12:00:00 AM
5/1/2027	12:00:00 AM
6/1/2027	12:00:00 AM
7/1/2027	12:00:00 AM
8/1/2027	12:00:00 AM
9/1/2027	12:00:00 AM
10/1/2027	12:00:00 AM
11/1/2027	12:00:00 AM
12/1/2027	12:00:00 AM
1/1/2028	12:00:00 AM
2/1/2028	12:00:00 AM
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8/1/2030	12:00:00 AM
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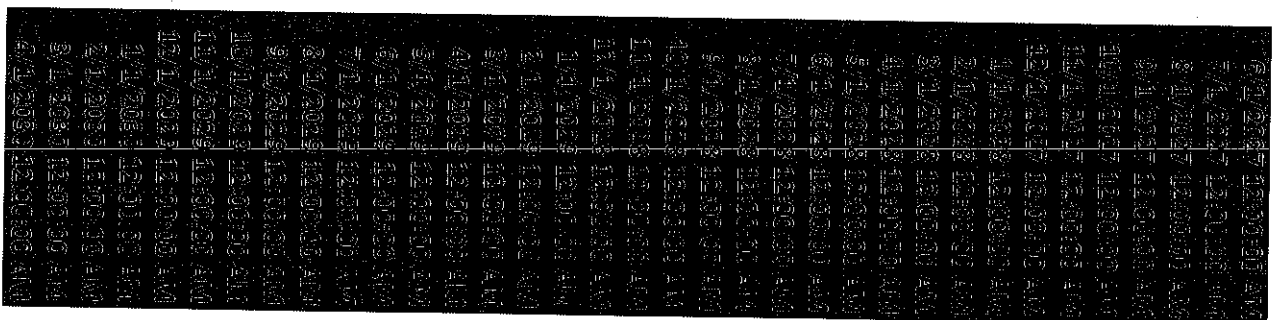
May-21	\$	31.64
Jun-21	\$	31.39
Jul-21	\$	39.65
Aug-21	\$	36.02
Sep-21	\$	30.33
Oct-21	\$	30.52
Nov-21	\$	30.39
Dec-21	\$	31.02
Jan-22	\$	45.40
Feb-22	\$	42.29
Mar-22	\$	34.84
Apr-22	\$	31.67
May-22	\$	32.77
Jun-22	\$	32.51
Jul-22	\$	41.06
Aug-22	\$	37.30
Sep-22	\$	31.41
Oct-22	\$	31.60
Nov-22	\$	31.47
Dec-22	\$	32.12
Jan-23	\$	48.21
Feb-23	\$	44.91
Mar-23	\$	37.00
Apr-23	\$	33.63
May-23	\$	34.80
Jun-23	\$	34.53
Jul-23	\$	43.60
Aug-23	\$	39.61
Sep-23	\$	33.36
Oct-23	\$	33.56
Nov-23	\$	33.42
Dec-23	\$	34.11
Jan-24	\$	50.43
Feb-24	\$	46.98
Mar-24	\$	38.70



Apr-24	\$	35.18
May-24	\$	36.40
Jun-24	\$	36.11
Jul-24	\$	45.61
Aug-24	\$	41.44
Sep-24	\$	34.89
Oct-24	\$	35.11
Nov-24	\$	34.96
Dec-24	\$	35.68
Jan-25	\$	52.85
Feb-25	\$	49.23
Mar-25	\$	40.56
Apr-25	\$	36.86
May-25	\$	38.15
Jun-25	\$	37.84
Jul-25	\$	47.80
Aug-25	\$	43.42
Sep-25	\$	36.56
Oct-25	\$	36.79
Nov-25	\$	36.64
Dec-25	\$	37.39
Jan-26	\$	53.86
Feb-26	\$	50.17
Mar-26	\$	41.33
Apr-26	\$	37.57
May-26	\$	38.87
Jun-26	\$	38.57
Jul-26	\$	48.71
Aug-26	\$	44.25
Sep-26	\$	37.26
Oct-26	\$	37.49
Nov-26	\$	37.34
Dec-26	\$	38.11
Jan-27	\$	53.86
Feb-27	\$	50.17

7/1/2024	12:00:00 AM
8/1/2024	12:00:00 AM
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11/1/2024	12:00:00 AM
12/1/2024	12:00:00 AM
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11/1/2027	12:00:00 AM
12/1/2027	12:00:00 AM

Mar-27	\$	41.33
Apr-27	\$	37.57
May-27	\$	38.88
Jun-27	\$	38.57
Jul-27	\$	48.71
Aug-27	\$	44.25
Sep-27	\$	37.26
Oct-27	\$	37.49
Nov-27	\$	37.34
Dec-27	\$	38.11
Jan-28	\$	54.43
Feb-28	\$	50.70
Mar-28	\$	41.77
Apr-28	\$	37.97
May-28	\$	39.29
Jun-28	\$	38.98
Jul-28	\$	49.22
Aug-28	\$	44.72
Sep-28	\$	37.66
Oct-28	\$	37.89
Nov-28	\$	37.73
Dec-28	\$	38.51
Jan-29	\$	55.02
Feb-29	\$	51.25
Mar-29	\$	42.23
Apr-29	\$	38.38
May-29	\$	39.72
Jun-29	\$	39.40
Jul-29	\$	49.76
Aug-29	\$	45.21
Sep-29	\$	38.07
Oct-29	\$	38.30
Nov-29	\$	38.15
Dec-29	\$	38.93
Jan-30	\$	55.95



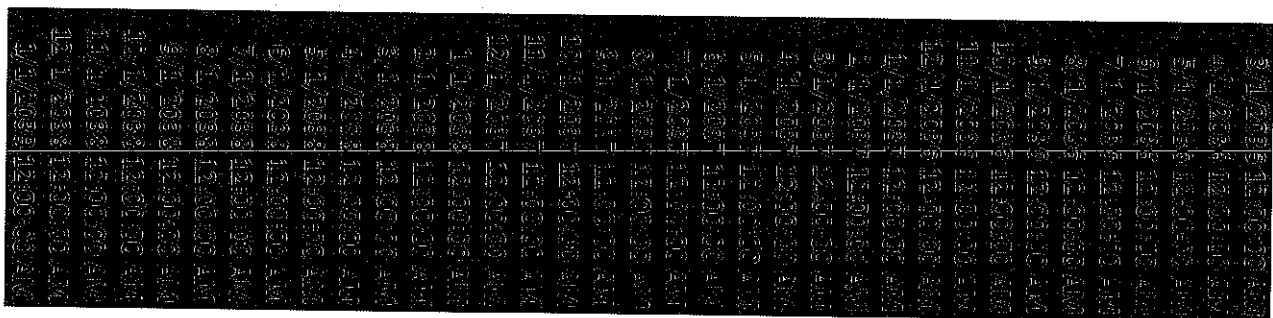
Feb-30	\$	52.12
Mar-30	\$	42.94
Apr-30	\$	39.03
May-30	\$	40.39
Jun-30	\$	40.07
Jul-30	\$	50.61
Aug-30	\$	45.98
Sep-30	\$	38.71
Oct-30	\$	38.95
Nov-30	\$	38.79
Dec-30	\$	39.59
Jan-31	\$	57.40
Feb-31	\$	53.47
Mar-31	\$	44.05
Apr-31	\$	40.04
May-31	\$	41.43
Jun-31	\$	41.11
Jul-31	\$	51.91
Aug-31	\$	47.17
Sep-31	\$	39.71
Oct-31	\$	39.96
Nov-31	\$	39.80
Dec-31	\$	40.61
Jan-32	\$	59.99
Feb-32	\$	55.89
Mar-32	\$	46.04
Apr-32	\$	41.85
May-32	\$	43.30
Jun-32	\$	42.96
Jul-32	\$	54.26
Aug-32	\$	49.30
Sep-32	\$	41.51
Oct-32	\$	41.76
Nov-32	\$	41.59
Dec-32	\$	42.45

5/1/2019	12:00:00 AM
6/1/2019	12:00:00 AM
7/1/2019	12:00:00 AM
8/1/2019	12:00:00 AM
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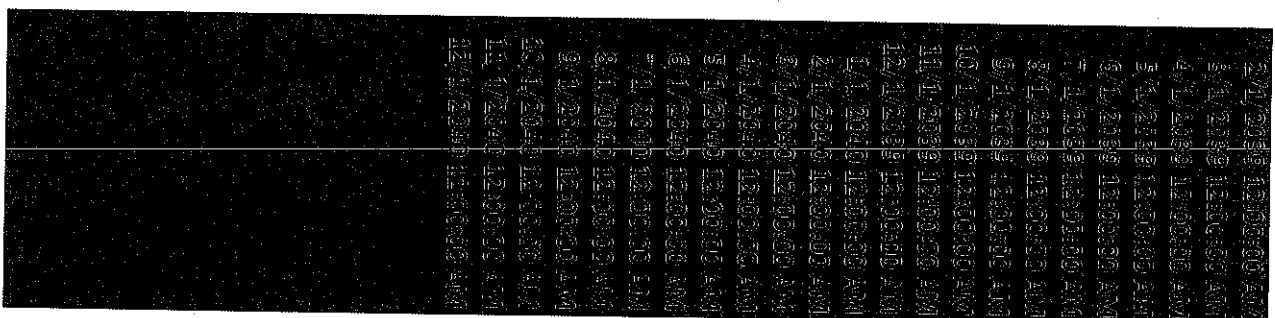
Jan-33	\$	61.90
Feb-33	\$	57.66
Mar-33	\$	47.51
Apr-33	\$	43.18
May-33	\$	44.68
Jun-33	\$	44.33
Jul-33	\$	55.99
Aug-33	\$	50.87
Sep-33	\$	42.83
Oct-33	\$	43.09
Nov-33	\$	42.92
Dec-33	\$	43.80
Jan-34	\$	63.84
Feb-34	\$	59.47
Mar-34	\$	48.99
Apr-34	\$	44.53
May-34	\$	46.08
Jun-34	\$	45.72
Jul-34	\$	57.74
Aug-34	\$	52.45
Sep-34	\$	44.17
Oct-34	\$	44.44
Nov-34	\$	44.26
Dec-34	\$	45.17
Jan-35	\$	65.25
Feb-35	\$	60.78
Mar-35	\$	50.08
Apr-35	\$	45.51
May-35	\$	47.10
Jun-35	\$	46.72
Jul-35	\$	59.01
Aug-35	\$	53.61
Sep-35	\$	45.14
Oct-35	\$	45.42
Nov-35	\$	45.24

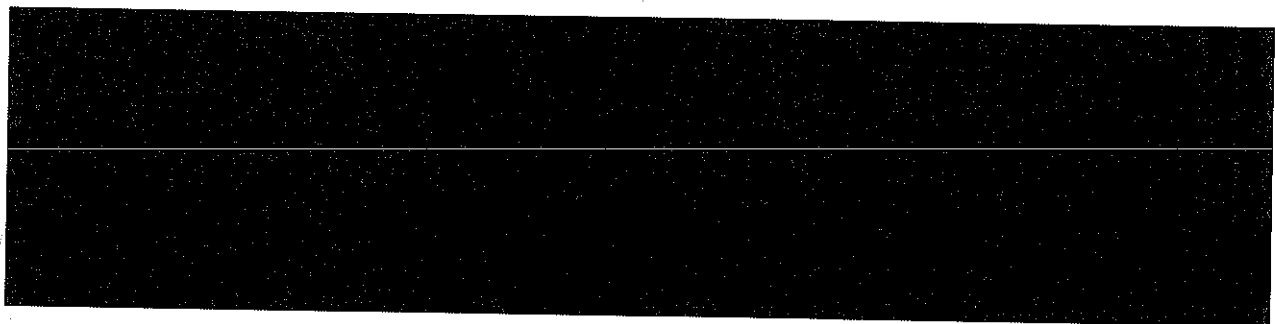
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03/2003	1145.00	AM
04/2003	1100.00	AM
05/2003	1050.00	AM
06/2003	1000.00	AM
07/2003	950.00	AM
08/2003	900.00	AM
09/2003	850.00	AM
10/2003	800.00	AM
11/2003	750.00	AM
12/2003	700.00	AM
01/2004	650.00	AM
02/2004	600.00	AM
03/2004	550.00	AM
04/2004	500.00	AM
05/2004	450.00	AM
06/2004	400.00	AM
07/2004	350.00	AM
08/2004	300.00	AM
09/2004	250.00	AM
10/2004	200.00	AM
11/2004	150.00	AM
12/2004	100.00	AM
01/2005	50.00	AM
02/2005	00.00	AM

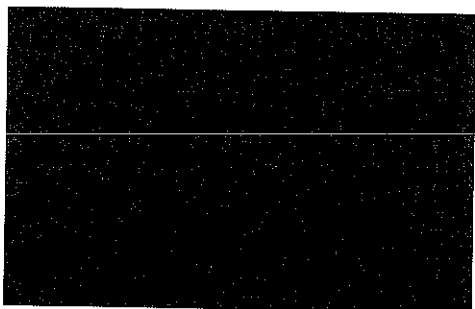
Dec-35	\$	46.17
Jan-36	\$	65.77
Feb-36	\$	61.27
Mar-36	\$	50.48
Apr-36	\$	45.88
May-36	\$	47.48
Jun-36	\$	47.10
Jul-36	\$	59.49
Aug-36	\$	54.05
Sep-36	\$	45.51
Oct-36	\$	45.79
Nov-36	\$	45.60
Dec-36	\$	46.54
Jan-37	\$	67.47
Feb-37	\$	62.85
Mar-37	\$	51.78
Apr-37	\$	47.07
May-37	\$	48.70
Jun-37	\$	48.32
Jul-37	\$	61.02
Aug-37	\$	55.44
Sep-37	\$	46.68
Oct-37	\$	46.97
Nov-37	\$	46.78
Dec-37	\$	47.74
01/01/2038	\$	69.26
02/01/2038	\$	64.52
03/01/2038	\$	53.16
04/01/2038	\$	48.31
05/01/2038	\$	49.99
06/01/2038	\$	49.60
07/01/2038	\$	62.64
08/01/2038	\$	56.91
09/01/2038	\$	47.92
10/01/2038	\$	48.22



11/01/2038	\$	48.02
12/01/2038	\$	49.01
01/01/2039	\$	70.84
02/01/2039	\$	65.99
03/01/2039	\$	54.37
04/01/2039	\$	49.42
05/01/2039	\$	51.14
06/01/2039	\$	50.73
07/01/2039	\$	64.07
08/01/2039	\$	58.21
09/01/2039	\$	49.01
10/01/2039	\$	49.32
11/01/2039	\$	49.11
12/01/2039	\$	50.13
01/01/2040	\$	71.44
02/01/2040	\$	66.55
03/01/2040	\$	54.83
04/01/2040	\$	49.84
05/01/2040	\$	51.57
06/01/2040	\$	51.16
07/01/2040	\$	64.62
08/01/2040	\$	58.70
09/01/2040	\$	49.43
10/01/2040	\$	49.74
11/01/2040	\$	49.53
12/01/2040	\$	50.55



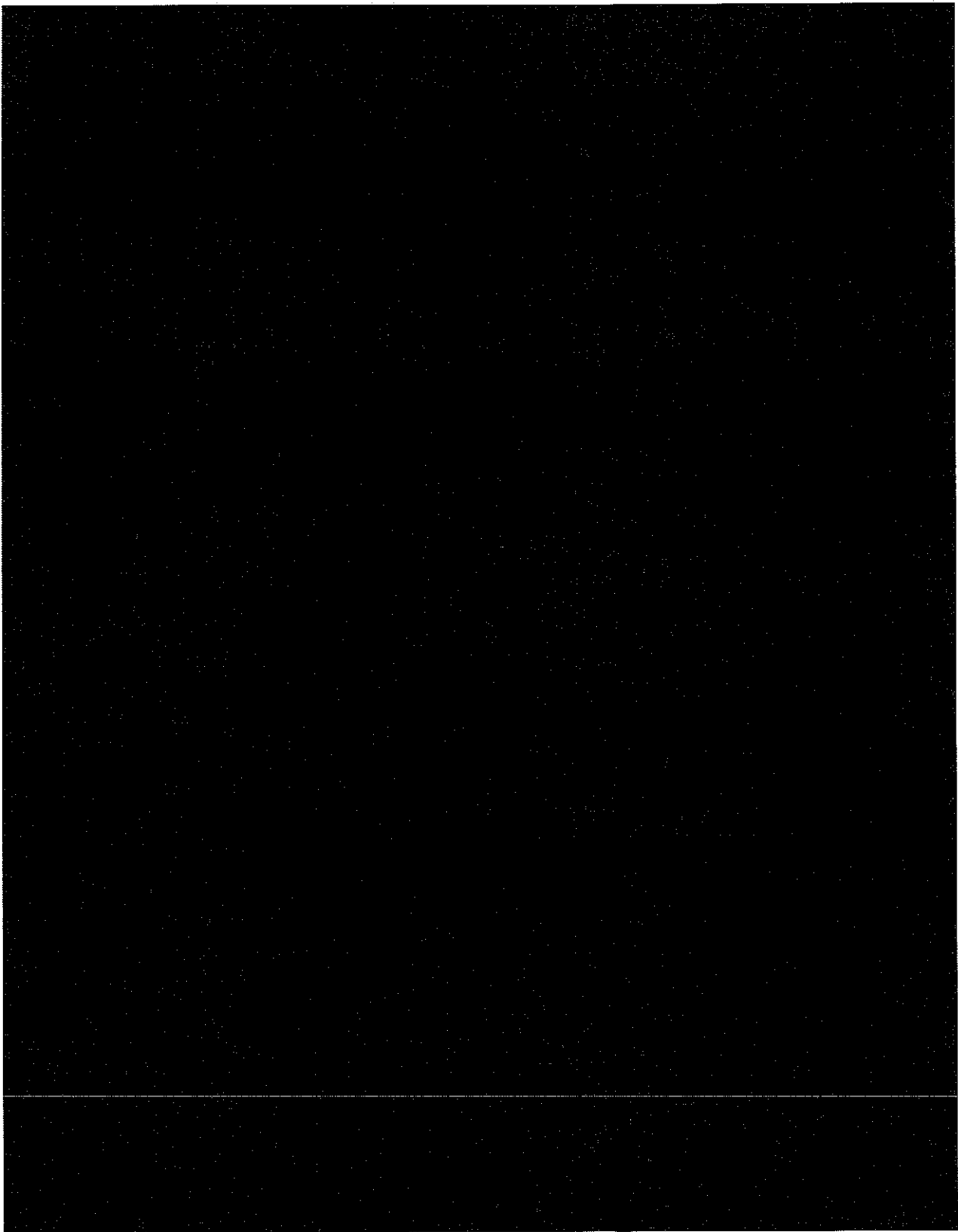


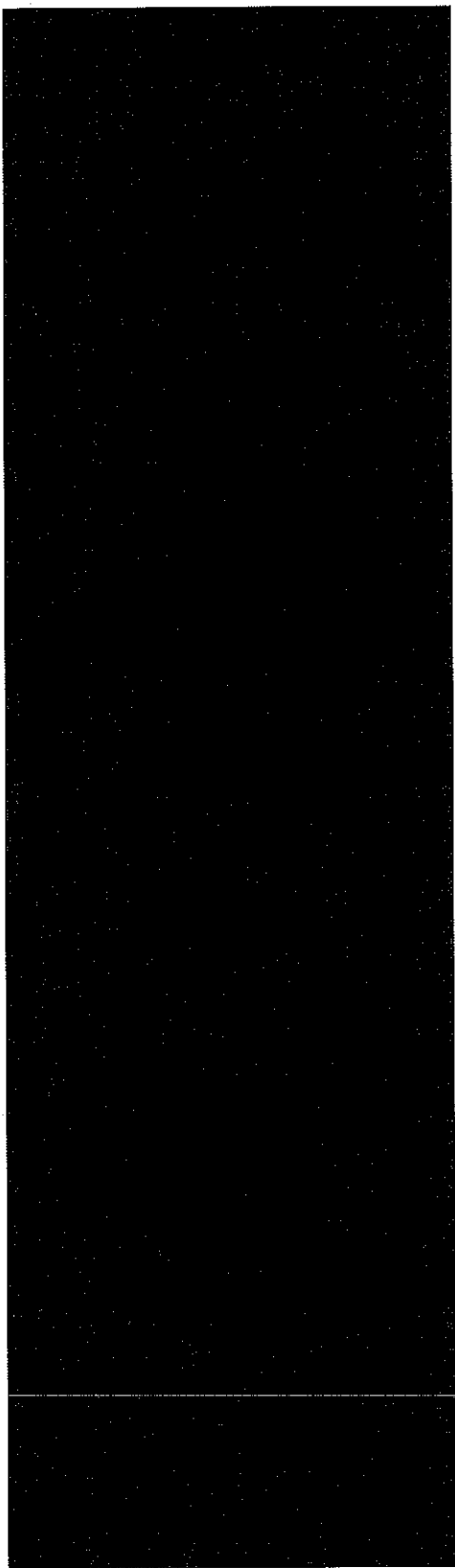


Case No.	Name	Age	Sex	Religion	Occupation	Marital Status	Number of Dependents	Annual Income	Assets	Liabilities	Net Worth
1001	John Doe	45	M	Catholic	Teacher	Married	2	\$50,000	\$100,000	\$20,000	\$80,000
1002	Jane Smith	38	F	Protestant	Nurse	Single	0	\$40,000	\$80,000	\$10,000	\$70,000
1003	Robert Johnson	52	M	Jewish	Engineer	Married	3	\$60,000	\$150,000	\$30,000	\$120,000
1004	Maria Garcia	48	F	Muslim	Homemaker	Married	1	\$30,000	\$60,000	\$15,000	\$45,000
1005	David Lee	35	M	Buddhist	Software Dev	Single	0	\$70,000	\$120,000	\$25,000	\$95,000
1006	Elizabeth King	55	F	Hindu	Retired	Married	2	\$35,000	\$70,000	\$12,000	\$58,000
1007	Michael Brown	42	M	Other	Manager	Married	1	\$45,000	\$90,000	\$18,000	\$72,000
1008	Olivia White	30	F	Other	Student	Single	0	\$20,000	\$40,000	\$5,000	\$35,000
1009	James Wilson	60	M	Other	Retired	Married	2	\$25,000	\$50,000	\$8,000	\$42,000
1010	Ava Miller	25	F	Other	Teacher	Single	0	\$30,000	\$60,000	\$7,000	\$53,000
1011	Ethan Davis	40	M	Other	Writer	Married	1	\$38,000	\$76,000	\$15,000	\$61,000
1012	Sophia Harris	33	F	Other	Designer	Single	0	\$42,000	\$84,000	\$14,000	\$70,000
1013	Lucas Clark	50	M	Other	Entrepreneur	Married	3	\$80,000	\$200,000	\$40,000	\$160,000
1014	Isabella Lewis	28	F	Other	Consultant	Single	0	\$55,000	\$110,000	\$22,000	\$88,000
1015	Noah Walker	47	M	Other	Analyst	Married	2	\$48,000	\$96,000	\$19,000	\$77,000
1016	Aria Young	37	F	Other	Marketing	Single	0	\$50,000	\$100,000	\$20,000	\$80,000
1017	Caleb Allen	58	M	Other	Retired	Married	1	\$28,000	\$56,000	\$11,000	\$45,000
1018	Scarlett King	32	F	Other	Journalist	Single	0	\$40,000	\$80,000	\$16,000	\$64,000
1019	Liam Scott	44	M	Other	Developer	Married	2	\$52,000	\$104,000	\$21,000	\$83,000
1020	Grace Green	29	F	Other	Researcher	Single	0	\$35,000	\$70,000	\$14,000	\$56,000

5/1/2033	12:00:00 AM	\$	45.18	\$	0.32	\$	43.84	\$	43.87	\$	43.28	\$	43.72	\$	43.04	\$	43.01	\$	43.49	\$	43.48
6/1/2033	12:00:00 AM	\$	44.83	\$	0.32	\$	44.04	\$	44.37	\$	44.32	\$	44.23	\$	44.12	\$	44.12	\$	44.18	\$	44.30
7/1/2033	12:00:00 AM	\$	44.83	\$	0.32	\$	44.88	\$	44.52	\$	44.82	\$	44.87	\$	44.18	\$	44.87	\$	44.54	\$	44.84
8/1/2033	12:00:00 AM	\$	45.99	\$	0.32	\$	46.31	\$	46.18	\$	46.56	\$	46.56	\$	46.19	\$	46.56	\$	46.30	\$	46.30
9/1/2033	12:00:00 AM	\$	46.87	\$	0.32	\$	47.19	\$	47.02	\$	47.19	\$	47.41	\$	47.19	\$	47.41	\$	47.19	\$	47.19
10/1/2033	12:00:00 AM	\$	46.33	\$	0.32	\$	46.15	\$	46.32	\$	46.12	\$	46.37	\$	46.06	\$	46.37	\$	46.14	\$	46.14
11/1/2033	12:00:00 AM	\$	45.99	\$	0.32	\$	46.42	\$	46.28	\$	46.39	\$	46.52	\$	46.08	\$	46.52	\$	46.24	\$	46.24
12/1/2033	12:00:00 AM	\$	45.92	\$	0.32	\$	46.24	\$	46.11	\$	46.21	\$	46.46	\$	46.07	\$	46.46	\$	46.13	\$	46.13
1/1/2034	12:00:00 AM	\$	45.80	\$	0.32	\$	46.13	\$	46.00	\$	46.10	\$	46.34	\$	45.93	\$	46.34	\$	46.11	\$	46.11
2/1/2034	12:00:00 AM	\$	45.84	\$	0.32	\$	46.15	\$	46.03	\$	46.13	\$	46.39	\$	45.97	\$	46.39	\$	46.15	\$	46.15
3/1/2034	12:00:00 AM	\$	45.47	\$	0.32	\$	45.79	\$	45.66	\$	45.76	\$	46.04	\$	45.69	\$	46.04	\$	45.78	\$	45.78
4/1/2034	12:00:00 AM	\$	46.39	\$	0.32	\$	46.22	\$	46.18	\$	46.23	\$	46.54	\$	46.23	\$	46.54	\$	46.31	\$	46.31
5/1/2034	12:00:00 AM	\$	44.53	\$	0.32	\$	44.33	\$	44.72	\$	44.83	\$	44.87	\$	44.36	\$	44.87	\$	44.84	\$	44.84
6/1/2034	12:00:00 AM	\$	45.08	\$	0.32	\$	45.41	\$	46.27	\$	46.27	\$	46.32	\$	45.91	\$	46.32	\$	46.39	\$	46.39
7/1/2034	12:00:00 AM	\$	45.72	\$	0.32	\$	46.04	\$	45.91	\$	46.31	\$	46.25	\$	46.35	\$	46.08	\$	46.33	\$	46.33
8/1/2034	12:00:00 AM	\$	45.74	\$	0.32	\$	46.06	\$	45.93	\$	46.33	\$	46.23	\$	46.37	\$	46.23	\$	46.35	\$	46.35
9/1/2034	12:00:00 AM	\$	45.42	\$	0.32	\$	45.73	\$	46.24	\$	46.73	\$	46.00	\$	46.24	\$	46.29	\$	46.77	\$	46.77
10/1/2034	12:00:00 AM	\$	44.47	\$	0.32	\$	44.29	\$	44.33	\$	44.44	\$	44.71	\$	44.30	\$	44.71	\$	44.43	\$	44.43
11/1/2034	12:00:00 AM	\$	44.44	\$	0.32	\$	44.77	\$	44.63	\$	44.74	\$	44.93	\$	44.37	\$	44.93	\$	44.73	\$	44.73
12/1/2034	12:00:00 AM	\$	44.24	\$	0.32	\$	44.38	\$	44.45	\$	44.53	\$	44.59	\$	44.39	\$	44.59	\$	44.37	\$	44.37
1/1/2035	12:00:00 AM	\$	46.17	\$	0.32	\$	44.48	\$	46.33	\$	46.48	\$	44.71	\$	44.80	\$	44.80	\$	46.43	\$	46.43
2/1/2035	12:00:00 AM	\$	45.23	\$	0.32	\$	45.57	\$	46.44	\$	46.34	\$	46.79	\$	46.38	\$	46.79	\$	46.33	\$	46.33
3/1/2035	12:00:00 AM	\$	46.73	\$	0.32	\$	44.19	\$	46.27	\$	46.37	\$	46.82	\$	46.61	\$	46.82	\$	46.13	\$	46.13
4/1/2035	12:00:00 AM	\$	45.44	\$	0.32	\$	45.40	\$	45.27	\$	45.37	\$	46.31	\$	45.31	\$	46.31	\$	45.33	\$	45.33
5/1/2035	12:00:00 AM	\$	45.51	\$	0.32	\$	45.84	\$	46.73	\$	46.91	\$	46.06	\$	45.35	\$	46.06	\$	46.33	\$	46.33
6/1/2035	12:00:00 AM	\$	47.40	\$	0.32	\$	47.12	\$	47.29	\$	47.33	\$	46.64	\$	46.93	\$	47.41	\$	47.41	\$	47.41
7/1/2035	12:00:00 AM	\$	46.72	\$	0.32	\$	47.05	\$	46.91	\$	47.34	\$	46.27	\$	46.56	\$	46.56	\$	47.34	\$	47.34
8/1/2035	12:00:00 AM	\$	45.04	\$	0.32	\$	46.34	\$	46.23	\$	46.34	\$	46.35	\$	46.34	\$	46.34	\$	46.32	\$	46.32
9/1/2035	12:00:00 AM	\$	45.94	\$	0.32	\$	46.34	\$	46.23	\$	46.31	\$	46.35	\$	46.34	\$	46.34	\$	46.32	\$	46.32
10/1/2035	12:00:00 AM	\$	45.14	\$	0.32	\$	46.14	\$	46.33	\$	46.42	\$	44.55	\$	44.97	\$	44.97	\$	45.45	\$	45.45
11/1/2035	12:00:00 AM	\$	45.42	\$	0.32	\$	46.15	\$	46.33	\$	46.22	\$	44.96	\$	45.23	\$	45.23	\$	46.73	\$	46.73
12/1/2035	12:00:00 AM	\$	45.34	\$	0.32	\$	46.34	\$	46.43	\$	46.33	\$	44.73	\$	45.07	\$	45.07	\$	45.59	\$	45.59
1/1/2036	12:00:00 AM	\$	46.17	\$	0.32	\$	46.43	\$	46.33	\$	46.43	\$	45.74	\$	46.09	\$	46.09	\$	46.48	\$	46.48
2/1/2036	12:00:00 AM	\$	46.77	\$	0.32	\$	46.15	\$	46.33	\$	46.37	\$	46.33	\$	46.34	\$	46.34	\$	46.59	\$	46.59
3/1/2036	12:00:00 AM	\$	46.27	\$	0.32	\$	46.33	\$	46.43	\$	46.33	\$	46.31	\$	46.15	\$	46.15	\$	46.59	\$	46.59

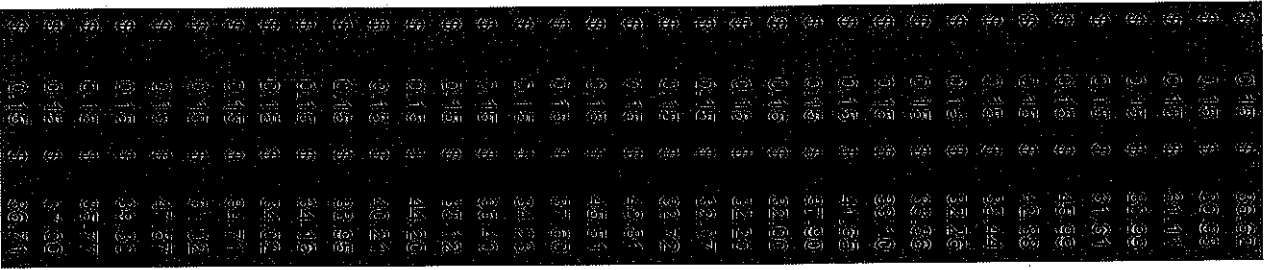
3/1/2039	12:00:00 AM	\$	63.99	\$	0.32	\$	66.31	\$	66.18	\$	67.19	\$	67.53	\$	68.82	\$	69.30	\$	69.30
4/1/2039	12:00:00 AM	\$	64.37	\$	0.32	\$	64.69	\$	64.56	\$	64.83	\$	64.91	\$	64.20	\$	64.28	\$	64.18
5/1/2039	12:00:00 AM	\$	49.42	\$	0.32	\$	49.74	\$	49.61	\$	49.71	\$	49.36	\$	49.15	\$	49.25	\$	49.78
6/1/2039	12:00:00 AM	\$	51.14	\$	0.32	\$	51.46	\$	51.33	\$	51.43	\$	50.88	\$	50.97	\$	50.97	\$	51.15
7/1/2039	12:00:00 AM	\$	50.73	\$	0.32	\$	51.05	\$	50.92	\$	51.03	\$	50.27	\$	50.36	\$	50.36	\$	51.04
8/1/2039	12:00:00 AM	\$	64.07	\$	0.32	\$	64.40	\$	64.28	\$	64.37	\$	63.81	\$	63.90	\$	63.90	\$	64.39
9/1/2039	12:00:00 AM	\$	58.21	\$	0.32	\$	58.53	\$	58.40	\$	58.50	\$	57.75	\$	58.04	\$	58.04	\$	58.52
10/1/2039	12:00:00 AM	\$	49.04	\$	0.32	\$	49.34	\$	49.20	\$	49.31	\$	48.55	\$	48.83	\$	48.83	\$	49.33
11/1/2039	12:00:00 AM	\$	49.32	\$	0.32	\$	49.64	\$	49.51	\$	49.61	\$	48.85	\$	49.13	\$	49.13	\$	49.63
12/1/2039	12:00:00 AM	\$	49.14	\$	0.32	\$	49.44	\$	49.30	\$	49.41	\$	48.65	\$	48.93	\$	48.93	\$	49.43
1/1/2040	12:00:00 AM	\$	56.43	\$	0.32	\$	56.45	\$	56.32	\$	56.42	\$	49.67	\$	49.95	\$	49.95	\$	50.44
2/1/2040	12:00:00 AM	\$	71.44	\$	0.32	\$	71.77	\$	71.33	\$	71.74	\$	70.99	\$	71.28	\$	71.28	\$	71.76
3/1/2040	12:00:00 AM	\$	58.53	\$	0.32	\$	58.85	\$	58.74	\$	58.85	\$	58.09	\$	58.38	\$	58.38	\$	58.86
4/1/2040	12:00:00 AM	\$	54.83	\$	0.32	\$	55.16	\$	55.02	\$	55.13	\$	54.37	\$	54.65	\$	54.65	\$	55.14
5/1/2040	12:00:00 AM	\$	48.84	\$	0.32	\$	49.16	\$	49.03	\$	49.13	\$	48.38	\$	48.67	\$	48.67	\$	49.15
6/1/2040	12:00:00 AM	\$	51.57	\$	0.32	\$	51.89	\$	51.76	\$	51.86	\$	51.11	\$	51.40	\$	51.40	\$	51.88
7/1/2040	12:00:00 AM	\$	51.46	\$	0.32	\$	51.49	\$	51.35	\$	51.45	\$	50.70	\$	50.99	\$	50.99	\$	51.47
8/1/2040	12:00:00 AM	\$	64.02	\$	0.32	\$	64.34	\$	64.21	\$	64.31	\$	63.46	\$	63.75	\$	63.75	\$	64.23
9/1/2040	12:00:00 AM	\$	58.73	\$	0.32	\$	59.05	\$	58.92	\$	59.03	\$	58.27	\$	58.54	\$	58.54	\$	59.02
10/1/2040	12:00:00 AM	\$	49.43	\$	0.32	\$	49.75	\$	49.62	\$	49.72	\$	48.97	\$	49.26	\$	49.26	\$	49.74
11/1/2040	12:00:00 AM	\$	49.74	\$	0.32	\$	49.96	\$	49.83	\$	49.93	\$	49.18	\$	49.47	\$	49.47	\$	49.95
12/1/2040	12:00:00 AM	\$	49.57	\$	0.32	\$	49.88	\$	49.75	\$	49.85	\$	49.10	\$	49.39	\$	49.39	\$	49.84
1/1/2041	12:00:00 AM	\$	50.55	\$	0.32	\$	50.86	\$	50.74	\$	50.85	\$	49.87	\$	50.33	\$	50.33	\$	50.83

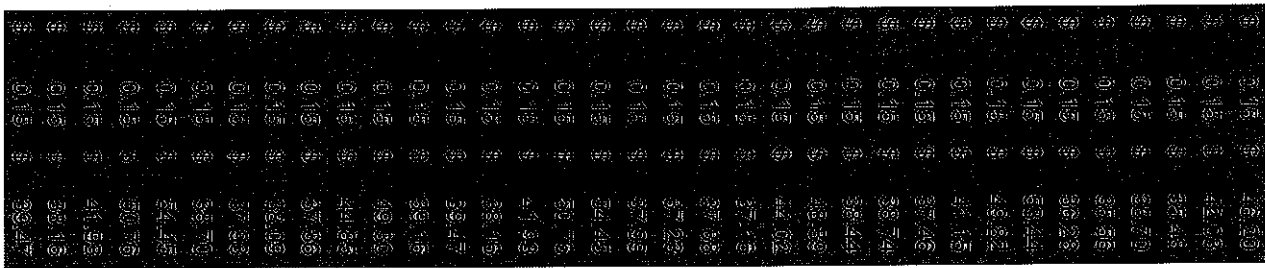




	Titan	Load
0	0.16	25.28
1	0.17	24.10
2	0.17	20.50
3	0.17	22.15
4	0.16	22.08
5	0.22	27.08
6	0.19	22.80
7	0.19	22.80
8	0.19	22.80
9	0.19	22.80
10	0.16	24.40
11	0.16	27.40
12	0.16	26.50
13	0.16	26.50
14	0.16	26.50
15	0.16	26.50
16	0.16	27.00
17	0.16	25.00
18	0.16	25.00
19	0.16	25.00
20	0.16	25.00
21	0.16	25.00
22	0.16	25.00
23	0.16	25.00
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25	0.16	25.00
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30	0.16	25.00
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35	0.16	25.00
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38	0.16	25.00
39	0.16	25.00
40	0.16	25.00
41	0.16	25.00
42	0.16	25.00
43	0.16	25.00
44	0.16	25.00
45	0.16	25.00
46	0.16	25.00
47	0.16	25.00
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66	0.16	25.00
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81	0.16	25.00
82	0.16	25.00
83	0.16	25.00
84	0.16	25.00
85	0.16	25.00
86	0.16	25.00
87	0.16	25.00
88	0.16	25.00
89	0.16	25.00
90	0.16	25.00
91	0.16	25.00
92	0.16	25.00
93	0.16	25.00
94	0.16	25.00
95	0.16	25.00
96	0.16	25.00
97	0.16	25.00
98	0.16	25.00
99	0.16	25.00
100	0.16	25.00

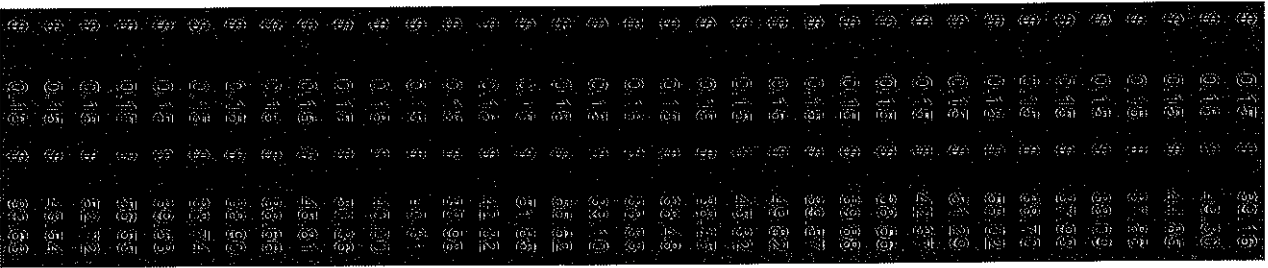
0	018	0	2490
0	018	0	2540
0	018	0	2630
0	018	0	2710
0	018	0	2790
0	018	0	2870
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0	018	0	3110
0	018	0	3190
0	018	0	3270
0	018	0	3350
0	018	0	3430
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0	018	0	4550
0	018	0	4630
0	018	0	4710
0	018	0	4790
0	018	0	4870
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0	018	0	5030
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0	018	0	5270
0	018	0	5350
0	018	0	5430
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0	018	0	8390
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0	018	0	8790
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0	018	0	9030
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0	018	0	9190
0	018	0	9270
0	018	0	9350
0	018	0	9430
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0	018	0	9750
0	018	0	9830
0	018	0	9910
0	018	0	9990



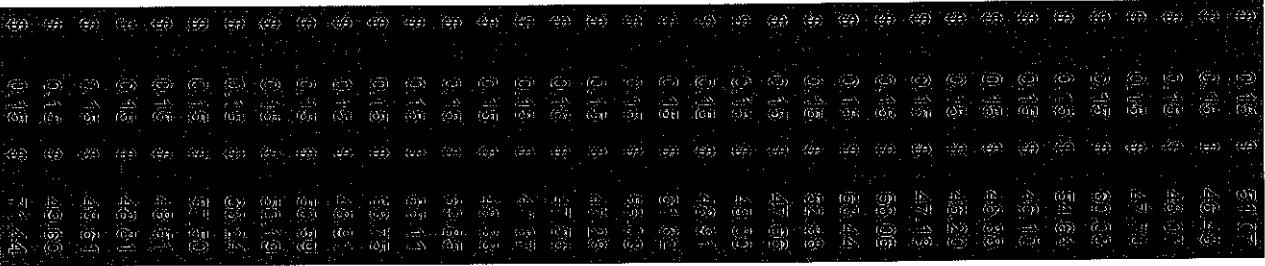


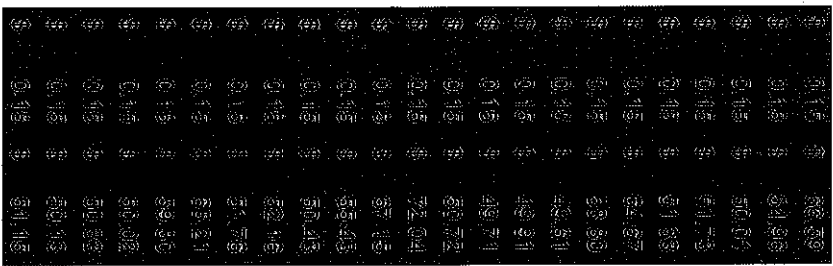
The page content is almost entirely obscured by a large black redaction box. Only a narrow vertical strip of text is visible along the right edge of the box. This strip contains a list of numbers, likely page numbers or identifiers, ranging from 0115 to 0247. The numbers are arranged in a single column and appear to be separated by small gaps or line breaks.

0115	0116	0117	0118	0119	0120	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192	0193	0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210	0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240	0241	0242	0243	0244	0245	0246	0247
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	off peak	EIA Escalation
Sep-16	\$ 14.11	2019 9%
Oct-16	\$ 16.77	2020 9%
Nov-16	\$ 16.05	2021 5%
Dec-16	\$ 16.85	2022 4%
Jan-17	\$ 25.25	2023 6%
Feb-17	\$ 22.00	2024 5%
Mar-17	\$ 17.90	2025 5%
Apr-17	\$ 14.00	2026 2%
May-17	\$ 15.95	2027 0%
Jun-17	\$ 15.55	2028 1%
Jul-17	\$ 17.85	2029 1%
Aug-17	\$ 15.55	2030 2%
Sep-17	\$ 16.10	2031 3%
Oct-17	\$ 17.05	2032 5%
Nov-17	\$ 16.30	2033 3%
Dec-17	\$ 19.95	2034 3%
Jan-18	\$ 26.45	2035 2%
Feb-18	\$ 24.10	2036 1%
Mar-18	\$ 19.55	2037 3%
Apr-18	\$ 18.45	2038 3%
May-18	\$ 14.55	2039 2%
Jun-18	\$ 15.20	2040 1%
Jul-18	\$ 16.85	

SPP North Hub		vs. North Location Hub 10-5-
Aberdeen 1	\$	0.32
Aberdeen 2	\$	0.32
Beethoven	\$	0.19
Big Stone	\$	0.29
Coyote	\$	(0.46)
Huron 1	\$	(0.17)
Huron 2	\$	(0.17)
Neal 4	\$	0.31
Oak Tree	\$	0.31
Titan	\$	(0.17)
Load	\$	0.27

Aug-18	\$	16.50
Sep-18	\$	14.50
Oct-18	\$	16.10
Nov-18	\$	16.95
Dec-18	\$	17.70
Jan-19	\$	28.93
Feb-19	\$	26.36
Mar-19	\$	21.38
Apr-19	\$	20.18
May-19	\$	15.91
Jun-19	\$	16.62
Jul-19	\$	18.43
Aug-19	\$	18.04
Sep-19	\$	15.86
Oct-19	\$	17.61
Nov-19	\$	18.54
Dec-19	\$	19.36
Jan-20	\$	31.52
Feb-20	\$	28.72
Mar-20	\$	23.30
Apr-20	\$	21.99
May-20	\$	17.34
Jun-20	\$	18.12
Jul-20	\$	20.08
Aug-20	\$	19.67
Sep-20	\$	17.28
Oct-20	\$	19.19
Nov-20	\$	20.20
Dec-20	\$	21.10
Jan-21	\$	33.08
Feb-21	\$	30.14
Mar-21	\$	24.45
Apr-21	\$	23.08

May-21	\$	18.20
Jun-21	\$	19.01
Jul-21	\$	21.08
Aug-21	\$	20.64
Sep-21	\$	18.14
Oct-21	\$	20.14
Nov-21	\$	21.20
Dec-21	\$	22.14
Jan-22	\$	34.26
Feb-22	\$	31.21
Mar-22	\$	25.32
Apr-22	\$	23.90
May-22	\$	18.85
Jun-22	\$	19.69
Jul-22	\$	21.82
Aug-22	\$	21.37
Sep-22	\$	18.78
Oct-22	\$	20.85
Nov-22	\$	21.95
Dec-22	\$	22.92
Jan-23	\$	36.38
Feb-23	\$	33.15
Mar-23	\$	26.89
Apr-23	\$	25.38
May-23	\$	20.01
Jun-23	\$	20.91
Jul-23	\$	23.18
Aug-23	\$	22.70
Sep-23	\$	19.94
Oct-23	\$	22.15
Nov-23	\$	23.31
Dec-23	\$	24.35
Jan-24	\$	38.05
Feb-24	\$	34.67

Mar-24	\$	28.13
Apr-24	\$	26.54
May-24	\$	20.93
Jun-24	\$	21.87
Jul-24	\$	24.24
Aug-24	\$	23.74
Sep-24	\$	20.86
Oct-24	\$	23.16
Nov-24	\$	24.39
Dec-24	\$	25.47
Jan-25	\$	39.88
Feb-25	\$	36.34
Mar-25	\$	29.48
Apr-25	\$	27.82
May-25	\$	21.94
Jun-25	\$	22.92
Jul-25	\$	25.41
Aug-25	\$	24.88
Sep-25	\$	21.86
Oct-25	\$	24.28
Nov-25	\$	25.56
Dec-25	\$	26.69
Jan-26	\$	40.64
Feb-26	\$	37.03
Mar-26	\$	30.04
Apr-26	\$	28.35
May-26	\$	22.36
Jun-26	\$	23.36
Jul-26	\$	25.89
Aug-26	\$	25.35
Sep-26	\$	22.28
Oct-26	\$	24.74
Nov-26	\$	26.04
Dec-26	\$	27.20

Jan-27	\$	40.64
Feb-27	\$	37.03
Mar-27	\$	30.04
Apr-27	\$	28.35
May-27	\$	22.36
Jun-27	\$	23.36
Jul-27	\$	25.89
Aug-27	\$	25.35
Sep-27	\$	22.28
Oct-27	\$	24.74
Nov-27	\$	26.05
Dec-27	\$	27.20
Jan-28	\$	41.07
Feb-28	\$	37.42
Mar-28	\$	30.36
Apr-28	\$	28.65
May-28	\$	22.59
Jun-28	\$	23.60
Jul-28	\$	26.16
Aug-28	\$	25.62
Sep-28	\$	22.52
Oct-28	\$	25.00
Nov-28	\$	26.32
Dec-28	\$	27.48
Jan-29	\$	41.52
Feb-29	\$	37.83
Mar-29	\$	30.69
Apr-29	\$	28.96
May-29	\$	22.84
Jun-29	\$	23.86
Jul-29	\$	26.45
Aug-29	\$	25.90
Sep-29	\$	22.76
Oct-29	\$	25.27

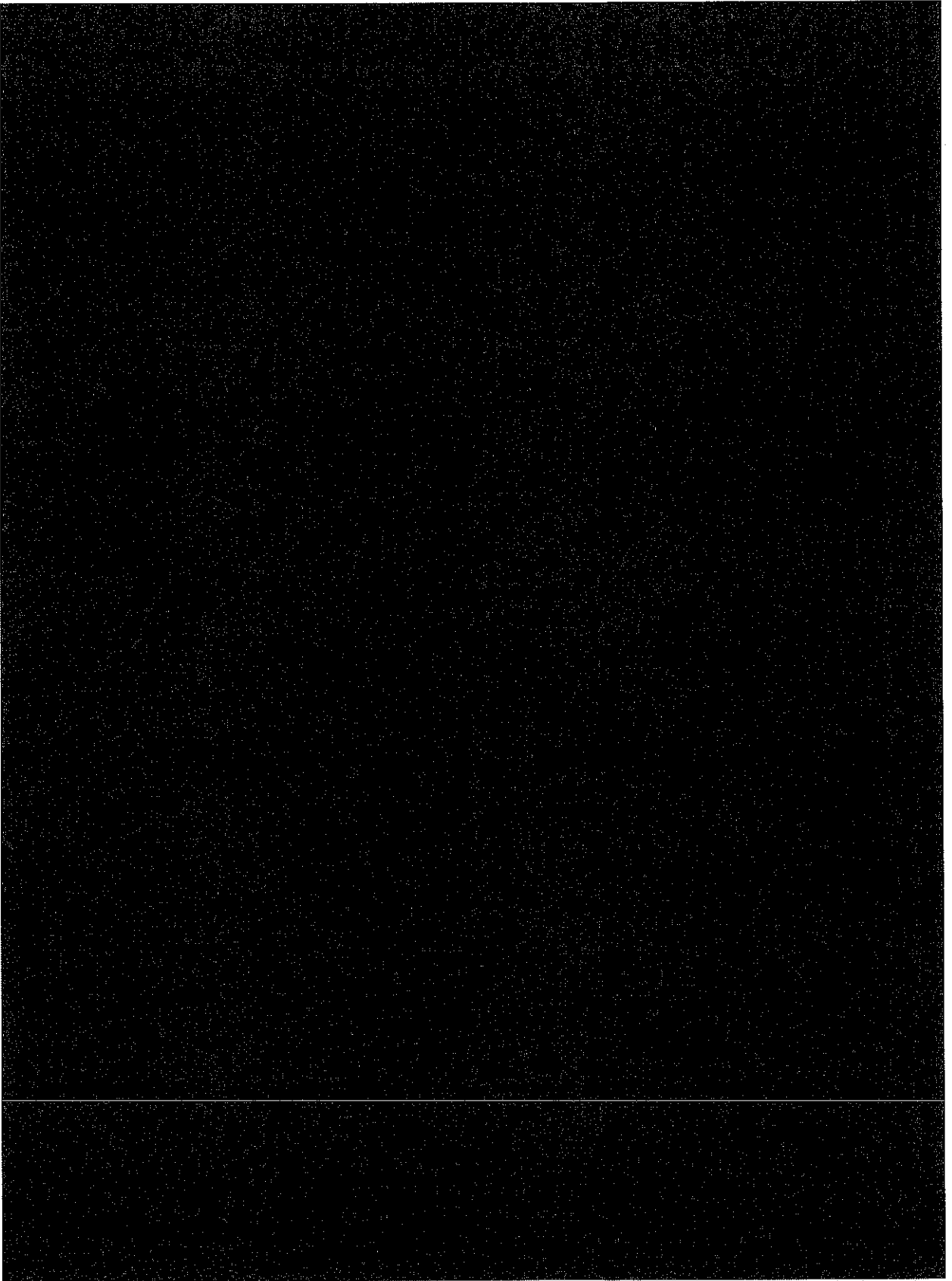
Nov-29	\$	26.61
Dec-29	\$	27.79
Jan-30	\$	42.22
Feb-30	\$	38.47
Mar-30	\$	31.21
Apr-30	\$	29.45
May-30	\$	23.23
Jun-30	\$	24.27
Jul-30	\$	26.90
Aug-30	\$	26.34
Sep-30	\$	23.15
Oct-30	\$	25.70
Nov-30	\$	27.06
Dec-30	\$	28.26
Jan-31	\$	43.32
Feb-31	\$	39.47
Mar-31	\$	32.02
Apr-31	\$	30.22
May-31	\$	23.83
Jun-31	\$	24.89
Jul-31	\$	27.59
Aug-31	\$	27.02
Sep-31	\$	23.75
Oct-31	\$	26.37
Nov-31	\$	27.76
Dec-31	\$	28.99
Jan-32	\$	45.27
Feb-32	\$	41.25
Mar-32	\$	33.46
Apr-32	\$	31.58
May-32	\$	24.90
Jun-32	\$	26.02
Jul-32	\$	28.84
Aug-32	\$	28.24

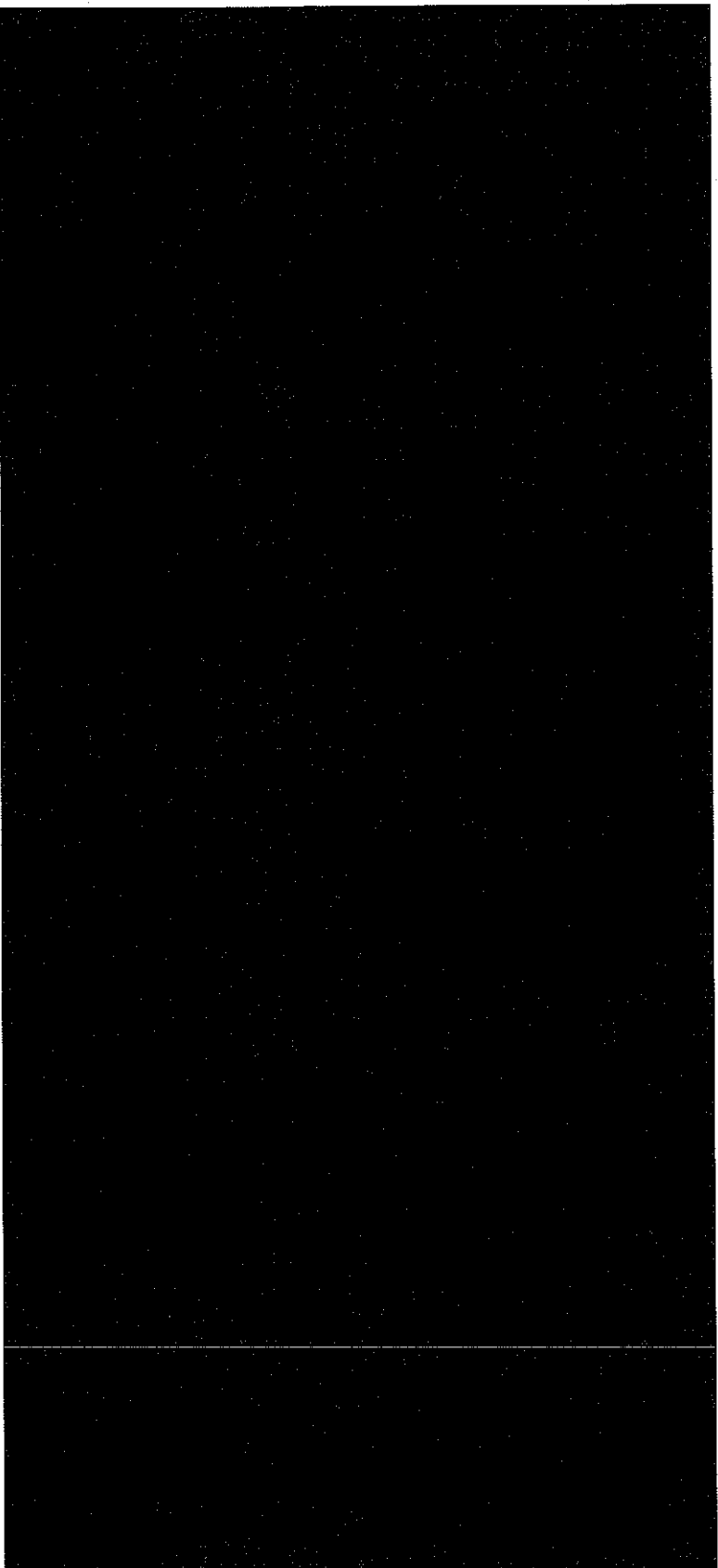
Jul-35	\$	31.37
Aug-35	\$	30.72
Sep-35	\$	26.99
Oct-35	\$	29.97
Nov-35	\$	31.55
Dec-35	\$	32.95
Jan-36	\$	49.64
Feb-36	\$	45.23
Mar-36	\$	36.69
Apr-36	\$	34.62
May-36	\$	27.30
Jun-36	\$	28.52
Jul-36	\$	31.62
Aug-36	\$	30.96
Sep-36	\$	27.21
Oct-36	\$	30.21
Nov-36	\$	31.81
Dec-36	\$	33.22
Jan-37	\$	50.92
Feb-37	\$	46.39
Mar-37	\$	37.63
Apr-37	\$	35.52
May-37	\$	28.01
Jun-37	\$	29.26
Jul-37	\$	32.44
Aug-37	\$	31.76
Sep-37	\$	27.91
Oct-37	\$	30.99
Nov-37	\$	32.63
Dec-37	\$	34.07
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02/01/2038	\$	47.62
03/01/2038	\$	38.63
04/01/2038	\$	36.46

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06/01/2038	\$	30.04
07/01/2038	\$	33.30
08/01/2038	\$	32.60
09/01/2038	\$	28.65
10/01/2038	\$	31.81
11/01/2038	\$	33.49
12/01/2038	\$	34.98
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02/01/2039	\$	48.71
03/01/2039	\$	39.51
04/01/2039	\$	37.29
05/01/2039	\$	29.41
06/01/2039	\$	30.72
07/01/2039	\$	34.06
08/01/2039	\$	33.35
09/01/2039	\$	29.31
10/01/2039	\$	32.54
11/01/2039	\$	34.26
12/01/2039	\$	35.77
01/01/2040	\$	53.91
02/01/2040	\$	49.12
03/01/2040	\$	39.85
04/01/2040	\$	37.61
05/01/2040	\$	29.66
06/01/2040	\$	30.98
07/01/2040	\$	34.35
08/01/2040	\$	33.63
09/01/2040	\$	29.56
10/01/2040	\$	32.82
11/01/2040	\$	34.55
12/01/2040	\$	36.08

11/1/2018 12:00:00 AM	12/1/2018 12:00:00 AM	\$	19.99	\$	17.28	\$	17.28	\$	19.03	\$	17.89	\$	17.28	\$	16.49	\$	16.78	\$	16.78
12/1/2018 12:00:00 AM	1/1/2019 12:00:00 AM	\$	17.19	\$	18.03	\$	18.03	\$	19.03	\$	17.89	\$	18.00	\$	17.24	\$	17.53	\$	17.53
1/1/2019 12:00:00 AM	2/1/2019 12:00:00 AM	\$	28.95	\$	29.24	\$	29.24	\$	29.24	\$	29.12	\$	29.22	\$	28.47	\$	28.76	\$	29.70
2/1/2019 12:00:00 AM	3/1/2019 12:00:00 AM	\$	28.35	\$	28.88	\$	28.88	\$	28.88	\$	28.83	\$	28.83	\$	28.65	\$	28.90	\$	28.19
3/1/2019 12:00:00 AM	4/1/2019 12:00:00 AM	\$	21.88	\$	21.70	\$	21.70	\$	21.70	\$	21.57	\$	21.57	\$	21.67	\$	21.21	\$	21.21
4/1/2019 12:00:00 AM	5/1/2019 12:00:00 AM	\$	20.18	\$	20.90	\$	20.90	\$	20.90	\$	20.87	\$	20.87	\$	20.47	\$	20.72	\$	20.01
5/1/2019 12:00:00 AM	6/1/2019 12:00:00 AM	\$	15.21	\$	16.24	\$	16.24	\$	16.24	\$	16.10	\$	16.21	\$	15.45	\$	16.74	\$	16.74
6/1/2019 12:00:00 AM	7/1/2019 12:00:00 AM	\$	18.82	\$	18.88	\$	18.88	\$	18.88	\$	18.81	\$	18.81	\$	18.47	\$	18.45	\$	18.48
7/1/2019 12:00:00 AM	8/1/2019 12:00:00 AM	\$	18.48	\$	18.72	\$	18.72	\$	18.72	\$	18.62	\$	18.72	\$	18.27	\$	18.25	\$	18.28
8/1/2019 12:00:00 AM	9/1/2019 12:00:00 AM	\$	18.54	\$	18.37	\$	18.37	\$	18.37	\$	18.23	\$	18.34	\$	17.97	\$	17.95	\$	17.88
9/1/2019 12:00:00 AM	10/1/2019 12:00:00 AM	\$	18.86	\$	18.12	\$	18.12	\$	18.18	\$	18.05	\$	18.15	\$	17.40	\$	18.38	\$	18.69
10/1/2019 12:00:00 AM	11/1/2019 12:00:00 AM	\$	17.81	\$	17.93	\$	17.93	\$	17.93	\$	17.85	\$	17.93	\$	17.44	\$	17.44	\$	17.44
11/1/2019 12:00:00 AM	12/1/2019 12:00:00 AM	\$	18.84	\$	18.85	\$	18.85	\$	18.85	\$	18.73	\$	18.83	\$	18.08	\$	18.87	\$	18.87
12/1/2019 12:00:00 AM	1/1/2020 12:00:00 AM	\$	19.36	\$	19.89	\$	19.89	\$	19.89	\$	19.83	\$	19.83	\$	19.18	\$	19.13	\$	19.13
1/1/2020 12:00:00 AM	2/1/2020 12:00:00 AM	\$	31.42	\$	31.85	\$	31.85	\$	31.85	\$	31.74	\$	31.82	\$	31.07	\$	31.38	\$	31.38
2/1/2020 12:00:00 AM	3/1/2020 12:00:00 AM	\$	28.72	\$	29.03	\$	29.03	\$	29.03	\$	28.91	\$	29.02	\$	28.17	\$	28.56	\$	28.56
3/1/2020 12:00:00 AM	4/1/2020 12:00:00 AM	\$	29.32	\$	29.53	\$	29.53	\$	29.53	\$	29.43	\$	29.50	\$	28.13	\$	28.43	\$	28.43
4/1/2020 12:00:00 AM	5/1/2020 12:00:00 AM	\$	31.89	\$	32.31	\$	32.31	\$	32.31	\$	32.18	\$	32.29	\$	31.32	\$	31.82	\$	31.82
5/1/2020 12:00:00 AM	6/1/2020 12:00:00 AM	\$	17.14	\$	17.67	\$	17.67	\$	17.67	\$	17.58	\$	17.64	\$	17.17	\$	17.17	\$	17.17
6/1/2020 12:00:00 AM	7/1/2020 12:00:00 AM	\$	18.12	\$	18.44	\$	18.44	\$	18.44	\$	18.31	\$	18.41	\$	17.87	\$	17.87	\$	17.87
7/1/2020 12:00:00 AM	8/1/2020 12:00:00 AM	\$	20.28	\$	20.47	\$	20.47	\$	20.47	\$	20.27	\$	20.38	\$	19.82	\$	19.82	\$	19.82
8/1/2020 12:00:00 AM	9/1/2020 12:00:00 AM	\$	19.57	\$	19.98	\$	19.98	\$	19.98	\$	19.86	\$	19.93	\$	19.21	\$	19.50	\$	19.50
9/1/2020 12:00:00 AM	10/1/2020 12:00:00 AM	\$	17.42	\$	17.81	\$	17.81	\$	17.81	\$	17.47	\$	17.58	\$	17.16	\$	17.16	\$	17.16
10/1/2020 12:00:00 AM	11/1/2020 12:00:00 AM	\$	19.19	\$	19.51	\$	19.51	\$	19.51	\$	19.39	\$	19.48	\$	18.73	\$	19.02	\$	19.02
11/1/2020 12:00:00 AM	12/1/2020 12:00:00 AM	\$	20.23	\$	20.33	\$	20.33	\$	20.33	\$	20.23	\$	20.30	\$	19.74	\$	19.88	\$	19.88
12/1/2020 12:00:00 AM	1/1/2021 12:00:00 AM	\$	21.18	\$	21.42	\$	21.42	\$	21.42	\$	21.42	\$	21.42	\$	21.03	\$	21.03	\$	21.03
1/1/2021 12:00:00 AM	2/1/2021 12:00:00 AM	\$	33.08	\$	32.48	\$	32.48	\$	32.41	\$	32.72	\$	32.82	\$	32.52	\$	32.82	\$	32.82
2/1/2021 12:00:00 AM	3/1/2021 12:00:00 AM	\$	30.14	\$	30.47	\$	30.47	\$	30.47	\$	30.33	\$	30.44	\$	29.69	\$	29.69	\$	29.69
3/1/2021 12:00:00 AM	4/1/2021 12:00:00 AM	\$	24.48	\$	24.79	\$	24.79	\$	24.78	\$	24.84	\$	24.75	\$	24.23	\$	24.23	\$	24.23
4/1/2021 12:00:00 AM	5/1/2021 12:00:00 AM	\$	20.38	\$	20.40	\$	20.40	\$	20.40	\$	20.40	\$	20.27	\$	19.87	\$	19.87	\$	19.87
5/1/2021 12:00:00 AM	6/1/2021 12:00:00 AM	\$	18.29	\$	18.82	\$	18.82	\$	18.82	\$	18.82	\$	18.82	\$	17.71	\$	18.03	\$	18.03
6/1/2021 12:00:00 AM	7/1/2021 12:00:00 AM	\$	18.01	\$	18.94	\$	18.94	\$	18.94	\$	18.84	\$	18.94	\$	18.43	\$	18.43	\$	18.43
7/1/2021 12:00:00 AM	8/1/2021 12:00:00 AM	\$	21.92	\$	21.40	\$	21.40	\$	21.40	\$	21.40	\$	21.40	\$	21.87	\$	21.87	\$	21.87

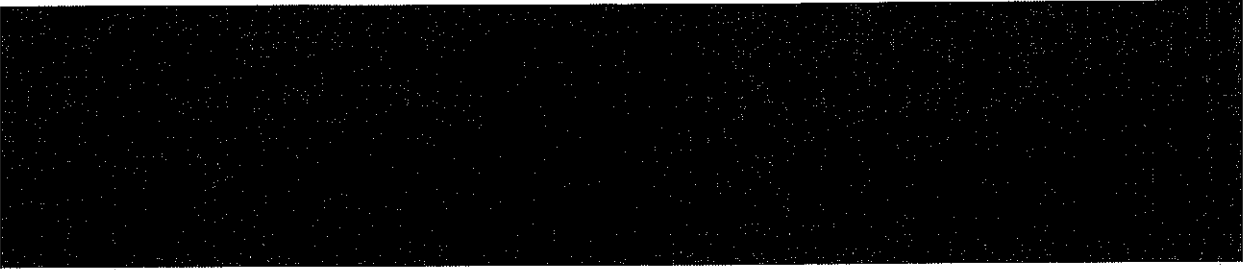
Case No.	Case Name	Case Type	Case Status	Case Date	Case Amount	Case Description	Case Location	Case Agency	Case Officer	Case Contact	Case Email	Case Phone	Case Fax	Case Address	Case City	Case State	Case Zip	Case Country
12-12345	John Doe	Personal	Open	2023-10-26	\$1000	Personal Injury	Los Angeles	Police	Officer Smith	555-123-4567	john.doe@abc.com	555-123-4567	555-123-4567	1234 Main St	Los Angeles	CA	90001	USA
12-12346	Jane Smith	Personal	Open	2023-10-26	\$2000	Personal Injury	Los Angeles	Police	Officer Jones	555-234-5678	jane.smith@abc.com	555-234-5678	555-234-5678	5678 Main St	Los Angeles	CA	90002	USA
12-12347	Bob Johnson	Personal	Open	2023-10-26	\$3000	Personal Injury	Los Angeles	Police	Officer Brown	555-345-6789	bob.johnson@abc.com	555-345-6789	555-345-6789	6789 Main St	Los Angeles	CA	90003	USA
12-12348	Alice Williams	Personal	Open	2023-10-26	\$4000	Personal Injury	Los Angeles	Police	Officer Green	555-456-7890	alice.williams@abc.com	555-456-7890	555-456-7890	7890 Main St	Los Angeles	CA	90004	USA
12-12349	Charlie Davis	Personal	Open	2023-10-26	\$5000	Personal Injury	Los Angeles	Police	Officer White	555-567-8901	charlie.davis@abc.com	555-567-8901	555-567-8901	8901 Main St	Los Angeles	CA	90005	USA
12-12350	Diana Miller	Personal	Open	2023-10-26	\$6000	Personal Injury	Los Angeles	Police	Officer Black	555-678-9012	diana.miller@abc.com	555-678-9012	555-678-9012	9012 Main St	Los Angeles	CA	90006	USA
12-12351	Frank Wilson	Personal	Open	2023-10-26	\$7000	Personal Injury	Los Angeles	Police	Officer Gray	555-789-0123	frank.wilson@abc.com	555-789-0123	555-789-0123	0123 Main St	Los Angeles	CA	90007	USA
12-12352	Grace Taylor	Personal	Open	2023-10-26	\$8000	Personal Injury	Los Angeles	Police	Officer Blue	555-890-1234	grace.taylor@abc.com	555-890-1234	555-890-1234	1234 Main St	Los Angeles	CA	90008	USA
12-12353	Henry Lee	Personal	Open	2023-10-26	\$9000	Personal Injury	Los Angeles	Police	Officer Red	555-901-2345	henry.lee@abc.com	555-901-2345	555-901-2345	2345 Main St	Los Angeles	CA	90009	USA
12-12354	Ivy King	Personal	Open	2023-10-26	\$10000	Personal Injury	Los Angeles	Police	Officer Purple	555-012-3456	ivy.king@abc.com	555-012-3456	555-012-3456	3456 Main St	Los Angeles	CA	90010	USA

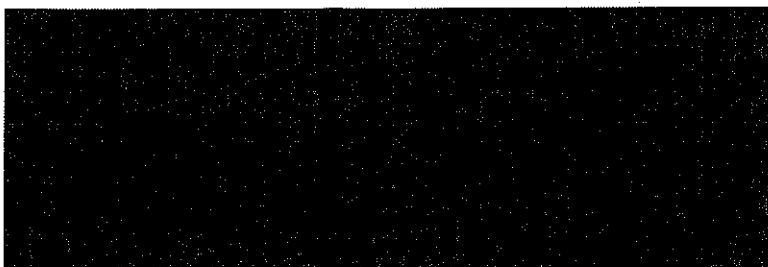




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2600	2601	2602	2603	2604





	Sundays	Saturdays	Holidays	Days off	Peak Days	Peak Days	Peak Hours	Off Peak Hours	Hours	Peak %	Off Peak %
42370	5	5	1	31	11	20	320	424	744	0.430107527	0.569892473
42401	4	4	0	29	8	21	336	360	696	0.482758621	0.517241379
42430	4	4	0	31	8	23	368	376	744	0.494623656	0.505376344
42461	4	5	0	30	9	21	336	384	720	0.466666667	0.533333333
42491	5	4	1	31	10	21	336	408	744	0.451612903	0.548387097
42522	4	4	0	30	8	22	352	368	720	0.488888889	0.511111111
42552	5	5	1	31	11	20	320	424	744	0.430107527	0.569892473
42583	4	4	0	31	8	23	368	376	744	0.494623656	0.505376344
42614	4	4	1	30	9	21	336	384	720	0.466666667	0.533333333
42644	5	5	0	31	10	21	336	408	744	0.451612903	0.548387097
42675	4	4	1	30	9	21	336	384	720	0.466666667	0.533333333
42705	4	5	1	31	10	21	336	408	744	0.451612903	0.548387097
42736	5	4	1	31	10	21	336	408	744	0.451612903	0.548387097
42767	4	4	0	28	8	20	320	352	672	0.476190476	0.523809524
42795	4	4	0	31	8	23	368	376	744	0.494623656	0.505376344
42826	5	5	0	30	10	20	320	400	720	0.444444444	0.555555556
42856	4	4	1	31	9	22	352	392	744	0.47311828	0.52688172
42887	4	4	0	30	8	22	352	368	720	0.488888889	0.511111111
42917	5	5	1	31	11	20	320	424	744	0.430107527	0.569892473
42948	4	4	0	31	8	23	368	376	744	0.494623656	0.505376344
42979	4	5	1	30	10	20	320	400	720	0.444444444	0.555555556
43009	5	4	0	31	9	22	352	392	744	0.47311828	0.52688172
43040	4	4	1	30	9	21	336	384	720	0.466666667	0.533333333
43070	5	5	1	31	11	20	320	424	744	0.430107527	0.569892473
43101	4	4	1	31	9	22	352	392	744	0.47311828	0.52688172
43132	4	4	0	28	8	20	320	352	672	0.476190476	0.523809524

24480 28128 52608 46.5% 53.5%

43160	4	5	0	31	9	22	352	392	744	0.47311828	0.52688172
43191	5	4	0	30	9	21	336	384	720	0.466666667	0.533333333
43221	4	4	1	31	9	22	352	392	744	0.47311828	0.52688172
43252	4	5	0	30	9	21	336	384	720	0.466666667	0.533333333
43282	5	4	1	31	10	21	336	408	744	0.451612903	0.548387097
43313	4	4	0	31	8	23	368	376	744	0.494623656	0.505376344
43344	5	5	1	30	11	19	304	416	720	0.422222222	0.577777778
43374	4	4	0	31	8	23	368	376	744	0.494623656	0.505376344
43405	4	4	1	30	9	21	336	384	720	0.466666667	0.533333333
43435	5	5	1	31	11	20	320	424	744	0.430107527	0.569892473
43466	4	4	1	31	9	22	352	392	744	0.47311828	0.52688172
43497	4	4	0	28	8	20	320	352	672	0.476190476	0.523809524
43525	5	5	0	31	10	21	336	408	744	0.451612903	0.548387097
43556	4	4	0	30	8	22	352	368	720	0.488888889	0.511111111
43586	4	4	1	31	9	22	352	392	744	0.47311828	0.52688172
43617	5	5	0	30	10	20	320	400	720	0.444444444	0.555555556
43647	4	4	1	31	9	22	352	392	744	0.47311828	0.52688172
43678	4	5	0	31	9	22	352	392	744	0.47311828	0.52688172
43709	5	4	1	30	10	20	320	400	720	0.444444444	0.555555556
43739	4	4	0	31	8	23	368	376	744	0.494623656	0.505376344
43770	4	5	1	30	10	20	320	400	720	0.444444444	0.555555556
43800	5	4	1	31	10	21	336	408	744	0.451612903	0.548387097
43831	4	4	1	31	9	22	352	392	744	0.47311828	0.52688172
43862	4	5	0	29	9	20	320	376	696	0.459770115	0.540229885
43891	5	4	0	31	9	22	352	392	744	0.47311828	0.52688172
43922	4	4	0	30	8	22	352	368	720	0.488888889	0.511111111
43952	5	5	1	31	11	20	320	424	744	0.430107527	0.569892473
43983	4	4	0	30	8	22	352	368	720	0.488888889	0.511111111
44013	4	4	1	31	9	22	352	392	744	0.47311828	0.52688172
44044	5	5	0	31	10	21	336	408	744	0.451612903	0.548387097
44075	4	4	1	30	9	21	336	384	720	0.466666667	0.533333333
44105	4	5	0	31	9	22	352	392	744	0.47311828	0.52688172
44136	5	4	1	30	10	20	320	400	720	0.444444444	0.555555556
44166	4	4	1	31	9	22	352	392	744	0.47311828	0.52688172

44197	5	5	1	31	11	20	320	424	744	0.430107527	0.569892473
44228	4	4	0	28	8	20	320	352	672	0.476190476	0.523809524
44256	4	4	0	31	8	23	368	376	744	0.494623656	0.505376344
44287	4	4	0	30	8	22	352	368	720	0.488888889	0.511111111
44317	5	5	1	31	11	20	320	424	744	0.430107527	0.569892473
44348	4	4	0	30	8	22	352	368	720	0.488888889	0.511111111
44378	4	5	1	31	10	21	336	408	744	0.451612903	0.548387097
44409	5	4	0	31	9	22	352	392	744	0.47311828	0.52688172
44440	4	4	1	30	9	21	336	384	720	0.466666667	0.533333333
44470	5	5	0	31	10	21	336	408	744	0.451612903	0.548387097
44501	4	4	1	30	9	21	336	384	720	0.466666667	0.533333333
44531	4	4	1	31	9	22	352	392	744	0.47311828	0.52688172