

WACC **7.24%** nominal, annual

**NPV and Annualized Energy Costs \$/MWh**

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

<b>Information Only</b>
<b>Total Avoided Cost</b>
<b>Levelized Payment</b>
\$25.72

<b>Total Avoided Cost</b>
<b>Offer Price</b>

**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 (\$)	Total Avoided Cost (\$)	Average Avoided Cost (\$/MWh)	REC Value	Regulation	Interconnection Upgrade Costs	Average Avoided Cost (\$/MWh) With RECs
2017	277,156	125,955	151,201	\$ 16.83	\$ 22.45	\$ 2,120,144	\$ 3,394,856	\$ 5,515,000	\$ 19.90	\$ 0.37	\$ (0.32)	\$ (2.84)	\$ 17.11
2018	277,190	106,838	170,352	\$ 15.68	\$ 22.12	\$ 1,675,452	\$ 3,768,301	\$ 5,443,753	\$ 19.64	\$ 0.40	\$ (0.35)	\$ (2.84)	\$ 16.85
2019	277,190	94,385	182,805	\$ 16.97	\$ 24.27	\$ 1,601,882	\$ 4,437,440	\$ 6,039,323	\$ 21.79	\$ 0.44	\$ (0.38)	\$ (2.84)	\$ 19.00
2020	277,190	110,031	167,159	\$ 20.48	\$ 26.69	\$ 2,253,903	\$ 4,461,455	\$ 6,715,358	\$ 24.23	\$ 0.48	\$ (0.42)	\$ (2.84)	\$ 21.45
2021	277,190	99,391	177,799	\$ 20.10	\$ 28.09	\$ 1,997,478	\$ 4,993,631	\$ 6,991,109	\$ 25.22	\$ 0.51	\$ (0.44)	\$ (2.84)	\$ 22.45
2022	277,190	91,466	185,724	\$ 21.74	\$ 28.72	\$ 1,988,765	\$ 5,333,590	\$ 7,322,356	\$ 26.42	\$ 0.52	\$ (0.46)	\$ (2.84)	\$ 23.64
2023	277,190	89,955	187,235	\$ 24.06	\$ 30.52	\$ 2,164,300	\$ 5,713,630	\$ 7,877,930	\$ 28.42	\$ 0.56	\$ (0.48)	\$ (2.84)	\$ 25.65
2024	277,190	97,672	179,518	\$ 24.29	\$ 32.23	\$ 2,372,236	\$ 5,785,211	\$ 8,157,447	\$ 29.43	\$ 0.58	\$ (0.51)	\$ (2.84)	\$ 26.66
2025	277,190	84,714	192,476	\$ 25.78	\$ 33.77	\$ 2,183,658	\$ 6,500,488	\$ 8,684,146	\$ 31.33	\$ 0.61	\$ (0.53)	\$ (2.84)	\$ 28.57
2026	277,190	88,479	188,712	\$ 26.77	\$ 34.27	\$ 2,368,457	\$ 6,467,748	\$ 8,836,205	\$ 31.88	\$ 0.62	\$ (0.54)	\$ (2.84)	\$ 29.12
2027	277,190	79,027	198,164	\$ 26.49	\$ 34.35	\$ 2,093,657	\$ 6,807,303	\$ 8,900,960	\$ 32.11	\$ 0.62	\$ (0.54)	\$ (2.84)	\$ 29.35
2028	277,190	67,248	209,943	\$ 28.66	\$ 34.52	\$ 1,927,174	\$ 7,247,965	\$ 9,175,139	\$ 33.10	\$ 0.63	\$ (0.55)	\$ (2.84)	\$ 30.34
2029	277,190	70,534	206,656	\$ 28.12	\$ 35.10	\$ 1,983,363	\$ 7,253,591	\$ 9,236,954	\$ 33.32	\$ 0.63	\$ (0.55)	\$ (2.84)	\$ 30.57
2030	277,190	68,590	208,600	\$ 28.32	\$ 35.76	\$ 1,942,291	\$ 7,459,284	\$ 9,401,575	\$ 33.92	\$ 0.65	\$ (0.56)	\$ (2.84)	\$ 31.16
2031	277,190	60,583	216,607	\$ 28.23	\$ 36.72	\$ 1,710,301	\$ 7,954,864	\$ 9,665,165	\$ 34.87	\$ 0.66	\$ (0.58)	\$ (2.84)	\$ 32.11
2032	277,190	55,351	221,840	\$ 30.34	\$ 38.43	\$ 1,679,440	\$ 8,524,610	\$ 10,204,050	\$ 36.81	\$ 0.69	\$ (0.60)	\$ (2.84)	\$ 34.06
2033	277,190	60,299	216,891	\$ 30.20	\$ 39.79	\$ 1,821,276	\$ 8,631,037	\$ 10,452,313	\$ 37.71	\$ 0.71	\$ (0.62)	\$ (2.84)	\$ 34.96
2034	277,190	53,248	223,942	\$ 30.31	\$ 41.14	\$ 1,613,732	\$ 9,214,079	\$ 10,827,812	\$ 39.06	\$ 0.74	\$ (0.64)	\$ (2.84)	\$ 36.32
2035	277,190	55,170	222,020	\$ 31.89	\$ 41.89	\$ 1,759,455	\$ 9,301,412	\$ 11,060,868	\$ 39.90	\$ 0.75	\$ (0.65)	\$ (2.84)	\$ 37.16
2036	277,190	49,697	227,494	\$ 30.93	\$ 42.32	\$ 1,537,351	\$ 9,626,734	\$ 11,164,085	\$ 40.28	\$ 0.76	\$ (0.66)	\$ (2.84)	\$ 37.53

Discount Rate 7.24%

Escalation Rate 2.00%

Nameplate Capacity 60

Capacity Value		Yearly Price/MW	Creditted Capacity Per Project	Avoided Cost Each Project	
				Per year	3 Projects
2017	\$	42,000	0.60	NA	NA
2018	\$	42,000	0.60	NA	NA
2019	\$	42,840	0.60	\$ 25,704	\$ 77,112
2020	\$	43,697	TBD	TBD	TBD
2021	\$	44,571	TBD	TBD	TBD
2022	\$	45,462	TBD	TBD	TBD
2023	\$	46,371	TBD	TBD	TBD
2024	\$	47,299	TBD	TBD	TBD
2025	\$	48,245	TBD	TBD	TBD
2026	\$	49,210	TBD	TBD	TBD
2027	\$	50,194	TBD	TBD	TBD
2028	\$	51,198	TBD	TBD	TBD
2029	\$	52,222	TBD	TBD	TBD
2030	\$	53,266	TBD	TBD	TBD
2031	\$	54,331	TBD	TBD	TBD
2032	\$	55,418	TBD	TBD	TBD
2033	\$	56,526	TBD	TBD	TBD
2034	\$	57,657	TBD	TBD	TBD
2035	\$	58,810	TBD	TBD	TBD
2036	\$	59,986	TBD	TBD	TBD

**NorthWestern will include the protocol for each year in order to calculate accredited capacity.**

**The current protocol from 2016 is below:**

Market Protocols for SPP Integrated Marketplace

4.1.2.2 Wind-Powered Generation Resource Output Forecasts

4.1.2.3 Wind-Powered Generation Resource Data Requirements

SPP Planning Criteria Version 1, 11/20/2015, 7.1.5.3 (7)

The recommended 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 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 determined by the alternative methodology employed cannot credit the wind or solar with a capability greater than determined with the methodology stated below:

- 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 the evaluation period
- 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 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.
- d. A seasonal or annual net capability may be determined by selecting the appropriate monthly MW values corresponding to the Load Serving Entity's peak 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).
- 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 fifty miles is subject to Generation Working Group approval. Solar data correlated with a reference measuring device beyond two hundred miles is subject to Generation Working Group approval. For calculated values, at least one year must be based on site specific data.
- 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, the Load Serving Entity may submit 5% for wind facilities and 10% for solar facilities of the site facility's nameplate rating.
- h. Facilities in commercial operation 4 years and greater:
  - i. The data must include the most recent 3 years.
  - 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 to SPP as described above, then the net capability for the resource will be 0 MW.
- i. The net capability calculation shall be updated at least once every three years.

**Exhibit A: Capacity Quantity and Capacity Price by Year**

	Capacity Quantity (MW)	Capacity Price (\$/kW-mo.)	Annual Total (\$)
2016	30	\$3.50	\$1,260,000
2017	30	\$3.50	\$1,260,000
2018	35	\$3.50	\$1,470,000
Transaction Total			\$3,990,000

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 for Wind Integration (Feb 2, 2016)

- **Average cost of regulation per MWhr of wind energy:**
  - Annual regulation cost for wind / Annual wind energy
  - \$7.6 million / 32.1 million MWhr
  - = **\$0.24/MWhr**



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	<b>NorthWestern Energy</b>														
2	<b>Revenue Requirement - Regulated</b>														
3	<b>Juhl Wind (Brule, Davison, Aurora)</b>														
4	<b>Network Upgrades</b>														
5			1	2	3	4	5	6	7	8	9	10	11	12	13
6	<b>Rate Base:</b>		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
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)		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
12	Deferred Income Taxes		76,203	268,629	436,305	581,893	707,514	815,125	914,247	1,013,172	1,112,157	1,210,886	1,309,871	1,408,600	1,507,585
13															
14	<b>Total Year End Rate Base</b>		\$ 7,063,438	\$ 6,719,401	\$ 6,400,113	\$ 6,102,914	\$ 5,825,682	\$ 5,566,459	\$ 5,315,727	\$ 5,065,191	\$ 4,814,594	\$ 4,564,254	\$ 4,313,657	\$ 4,063,318	\$ 3,812,721
15															
16	<b>Average Annual Rate Base</b>		\$ 7,177,345	\$ 6,891,419	\$ 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
17															
18	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	\$ 321,380	\$ 303,246	\$ 285,113
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	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	151,611
22	Deferred Income Taxes @ 35%		76,203	192,426	167,676	145,588	125,621	107,611	99,122	98,925	98,986	98,728	98,986	98,728	98,986
23	Income Taxes		106,212	(17,278)	(958)	13,297	25,964	37,157	39,166	32,993	26,564	20,455	13,832	7,724	1,101
24															
25	<b>Total Revenue Requirement</b>		\$ 910,749	\$ 882,781	\$ 850,340	\$ 820,189	\$ 792,095	\$ 765,858	\$ 740,917	\$ 716,401	\$ 691,892	\$ 667,392	\$ 642,893	\$ 618,393	\$ 593,893

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
2	<b>Revenue Requirement - Regulated</b>														
3	<b>Juhl Wind (Brule, Davison, Aurora)</b>														
4	<b>Network Upgrades</b>		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															
27	<b>Income Taxes:</b>														
28	Revenues		\$ 910,749	\$ 882,781	\$ 850,340	\$ 820,189	\$ 792,095	\$ 765,858	\$ 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	Tax Depreciation	yes													
34	Tax Depreciation	15	367,536	698,318	628,486	566,005	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)	2.52%	180,869	173,664	165,306	157,538	150,300	143,541	137,116	130,900	124,485	118,173	111,862	105,550	99,238
37	Federal Taxable Income		\$ 303,463	\$ (49,365)	\$ (2,736)	\$ 37,991	\$ 74,183	\$ 106,162	\$ 111,902	\$ 94,265	\$ 75,896	\$ 58,443	\$ 39,520	\$ 22,068	\$ 3,145
38															
39	Federal Income Tax @ 35%	35.00%	\$ 106,212	\$ (17,278)	\$ (958)	\$ 13,297	\$ 25,964	\$ 37,157	\$ 39,166	\$ 32,993	\$ 26,564	\$ 20,455	\$ 13,832	\$ 7,724	\$ 1,101
40															
41	Federal Taxable Income		\$ 303,463	\$ (49,365)	\$ (2,736)	\$ 37,991	\$ 74,183	\$ 106,162	\$ 111,902	\$ 94,265	\$ 75,896	\$ 58,443	\$ 39,520	\$ 22,068	\$ 3,145
42															
43															
44															
45															
46															
47	<b>Juhl Wind Interconnection Costs (60MW)</b>														
48	20-year PMT of the NPV of Rev Req Cost		\$787,368.38												
49	Levelized Cost per MW		\$ 2.84												
50															
51	<b>Brule County Facilities Study - Draft</b>														
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	Brule County Facilities Study - Draft		Davison County Facilities Study - Draft		Aurora County Facilities Study - Draft	
	TPIF	NETWORK	TPIF	NETWORK	TPIF	NETWORK
Substation	\$ 433,230	\$ 1,940,946	\$ 433,230	\$ 1,645,711	\$ 433,230	\$ 1,638,987
Transmission	\$ -	\$ 137,877	\$ -	\$ 121,526	\$ -	\$ 175,274
Relaying	\$ 47,451	\$ 377,833	\$ 47,451	\$ 377,833	\$ 47,451	\$ 377,833
Metering	\$ 14,286	\$ -	\$ 40,780	\$ -	\$ 14,158	\$ -
Communications <sup>1</sup>	\$ 37,817	\$ 6,618	\$ 37,817	\$ -	\$ 31,435	\$ 18,723
EMS	\$ 994	\$ 1,988	\$ 994	\$ 1,988	\$ 1,408	\$ 2,751
Lands & Permitting	\$ -	\$ 152,457	\$ -	\$ 157,683	\$ -	\$ 155,224
<b>Subtotal</b>	<b>\$ 533,778</b>	<b>\$ 2,617,719</b>	<b>\$ 560,272</b>	<b>\$ 2,304,741</b>	<b>\$ 527,682</b>	<b>\$ 2,368,792</b>
<b>Distribution Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,257</b>	<b>\$ 10,212</b>	<b>\$ -</b>	<b>\$ -</b>
<b>TPIF Upgrades</b>	<b>\$ 533,778</b>		<b>\$ 560,272</b>		<b>\$ 527,682</b>	
<b>Network Upgrades</b>	<b>\$ 2,617,719</b>		<b>\$ 2,304,741</b>		<b>\$ 2,368,792</b>	
<b>Distribution</b>	<b>\$ -</b>		<b>\$ 12,469</b>		<b>\$ -</b>	
<b>TOTAL</b>	<b>\$ 3,151,497</b>		<b>\$ 2,877,482</b>		<b>\$ 2,896,474</b>	

	A	B	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	<b>NorthWestern Energy</b>													
2	<b>Revenue Requirement - Regulated</b>													
3	<b>Juhl Wind (Brule, Davison, Aurora)</b>													
4	<b>Network Upgrades</b>		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
6	<b>Rate Base:</b>													
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
9														
10	Less:													
11	Accumulated Depreciation (Book Life)		2,122,557	2,274,168	2,425,780	2,577,391	2,729,002	2,880,613	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	\$ 3,311,784	\$ 3,137,341	\$ 3,038,794	\$ 2,940,246	\$ 2,841,699	\$ 2,743,152	\$ 2,644,804	\$ 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	\$ 248,845	\$ 233,458	\$ 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%		98,728	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		(5,008)	(11,631)	59,121	131,548	129,044	126,539	124,035	121,530				
24														
25	<b>Total Revenue Requirement</b>		\$ 569,394	\$ 544,894	\$ 524,106	\$ 510,755	\$ 501,115	\$ 491,476	\$ 481,837	\$ 472,197	\$ 343,532	\$ 336,398	\$ 329,263	\$ 322,128

	A	B	P	Q	R	S	T	U	V	W	X	Y	Z	AA
2	<b>Revenue Requirement - Regulated</b>													
3	<b>Juhl Wind (Brule, Davison, Aurora)</b>													
4	<b>Network Upgrades</b>		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														
27	<b>Income Taxes:</b>													
28	Revenues		\$ 569,394	\$ 544,894	\$ 524,106	\$ 510,755	\$ 501,115	\$ 491,476	\$ 481,837	\$ 472,197	\$ 343,532	\$ 336,398	\$ 329,263	\$ 322,128
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
30														
31														
32														
33	Tax Depreciation		15	433,692	434,427	216,846	-	-	-	-	-	-	-	-
34	Tax Depreciation		7	-	-	-	-	-	-	-	-	-	-	-
35														
36	Interest Expense (Based on Avg. Rate Base)		2.52%	92,926	86,614	81,259	77,819	75,336	72,853	70,369	67,886	65,402	62,919	60,436
37	Federal Taxable Income		\$ (14,308)	\$ (33,231)	\$ 168,918	\$ 375,852	\$ 368,696	\$ 361,540	\$ 354,384	\$ 347,228	\$ 221,047	\$ 216,395	\$ 211,744	\$ 207,093
38														
39	Federal Income Tax @ 35%		35.00%	\$ (5,008)	\$ (11,631)	\$ 59,121	\$ 131,548	\$ 129,044	\$ 126,539	\$ 124,035	\$ 121,530	\$ 77,366	\$ 75,738	\$ 74,110
40														
41	Federal Taxable Income		\$ (14,308)	\$ (33,231)	\$ 168,918	\$ 375,852	\$ 368,696	\$ 361,540	\$ 354,384	\$ 347,228	\$ 221,047	\$ 216,395	\$ 211,744	\$ 207,093
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47	<b>Juhl Wind Interconnection Costs (60MW)</b>													
48	20-year PMT of the NPV of Rev Req Cost													
49	Levelized Cost per MW													
50														
51	<b>Brule County Facilities Study - Draft</b>													
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67														
68														
69														
70														
71														
72														

	TPIF	NETWC	
53			5225644 Sub
54	Substation	\$ 433,230	\$ 1 434677 Trans
55	Transmission	\$ -	\$ - 1133499 Relay
56			
57	Relaying	\$ 47,451	\$ - 25341 Comm
58	Metering	\$ 14,286	\$ - 6727 EMS
59	Communications <sup>1</sup>	\$ 37,817	\$ - 465364 Land
60	EMS	\$ 994	\$ - 7291252
61			
62	Lands & Permitting	\$ -	\$ -
63	<b>Subtotal</b>	<b>\$ 533,778</b>	<b>\$ 2</b>
64			
65	<b>Distribution Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>
66			
67	TPIF Upgrades	\$ 533,778	
68	Network Upgrades	\$ 2,617,719	
69			
70	Distribution	\$ -	
71	<b>TOTAL</b>	<b>\$ 3,151,497</b>	
72			

	A	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
1	<b>NorthWestern Energy</b>														
2	<b>Revenue Requirement - Regulated</b>														
3	<b>Juhi Wind (Brule, Davison, Aurora)</b>														
4	<b>Network Upgrades</b>		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	<b>Rate Base:</b>														
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		\$ 2,151,868	\$ 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	\$ 145,093	\$ 137,958	\$ 130,823	\$ 123,689	\$ 116,554	\$ 109,419	\$ 102,284	\$ 95,149	\$ 88,014	\$ 80,880	\$ 73,745
19	Property Taxes	0.78%	-	-	-	-	-	-	-	-	-	-	-	-	-
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	<b>Total Revenue Requirement</b>		\$ 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	<b>Revenue Requirement - Regulated</b>														
3	<b>Juhl Wind (Brule, Davison, Aurora)</b>														
4	<b>Network Upgrades</b>														
5			26	27	28	29	30	31	32	33	34	35	36	37	38
26			2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
27	<b>Income Taxes:</b>														
28	Revenues		\$ 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
29	Property Taxes		-	-	-	-	-	-	-	-	-	-	-	-	-
30															
31		MACRS													
32		yes													
33	Tax Depreciation	15	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Tax Depreciation	7	-	-	-	-	-	-	-	-	-	-	-	-	-
35															
36	Interest Expense (Based on Avg. Rate Base)	2.52%	55,469	52,985	50,502	48,019	45,535	43,052	40,568	38,085	35,602	33,118	30,635	28,151	25,668
37	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
38															
39	Federal Income Tax @ 35%	35.00%	\$ 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	<b>Juhl Wind Interconnection Costs (60MW)</b>														
48	20-year PMT of the NPV of Rev Req Cost														
49	Levelized Cost per MW														
50															
51	<b>Brule County Facilities Study - Draft</b>														
52															
53		TPIF	NETWC												
54	Substation	\$ 433,230	\$ 1												
55	Transmission	\$ -	\$ -												
56	Relaying	\$ 47,451	\$ -												
57	Metering	\$ 14,286	\$ -												
58	Communications <sup>1</sup>	\$ 37,817	\$ -												
59	EMS	\$ 994	\$ -												
60	Lands & Permitting	\$ -	\$ -												
61	Subtotal	\$ 533,778	\$ 2												
62															
63	Distribution Subtotal	\$ -	\$ -												
64															
65	TPIF Upgrades	\$ 533,778													
66	Network Upgrades	\$ 2,617,719													
67	Distribution	\$ -													
68	TOTAL	\$ 3,151,497													
69															
70															
71															
72															

	A	B	AO	AP
1	<b>NorthWestern Energy</b>			
2	<b>Revenue Requirement - Regulated</b>			
3	<b>Juhl Wind (Brule, Davison, Aurora)</b>			
4	<b>Network Upgrades</b>		39	40
5			2054	2055
6	<b>Rate Base:</b>			
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		507,661	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	<b>Total Revenue Requirement</b>		\$ 165,157	\$ 158,022

	A	B	AO	AP
2	<b>Revenue Requirement - Regulated</b>			
3	<b>Juhl Wind (Brule, Davison, Aurora)</b>			
4	<b>Network Upgrades</b>		39	40
5			2054	2055
26				
27	<b>Income Taxes:</b>			
28	Revenues		\$ 165,157	\$ 158,022
29	Property Taxes		-	-
30				
31		<b>MACRS</b>		
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	<b>Juhl Wind Interconnection Costs (60MW)</b>			
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		<b>TPIF</b>	<b>NETWO</b>	
54	Substation	\$ 433,230	\$ 1	
55	Transmission	\$ -	\$ -	
56	Relaying	\$ 47,451	\$ -	
57	Metering	\$ 14,286	\$ -	
58	Communications <sup>1</sup>	\$ 37,817	\$ -	
59	EMS	\$ 994	\$ -	
60	Lands & Permitting	\$ -	\$ -	
61				
62	<b>Subtotal</b>	<b>\$ 533,778</b>	<b>\$ 2</b>	
63				
64				
65	<b>Distribution Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	
66				
67	TPIF Upgrades	\$ 533,778		
68	Network Upgrades	\$ 2,617,719		
69	Distribution	\$ -		
70	<b>TOTAL</b>	<b>\$ 3,151,497</b>		
71				
72				









Total	Electricity: 62-AEO201 BkWh	0.097463	0.117082	0.139682	0.159578	0.208083	0.230126	0.252727	0.276493	0.293206	0.306288	0.320903	0.337731	0.356924	0.378397
Supply to the Grid	Electricity: 62-AEO201 BkWh	0.058378	0.062395	0.066609	0.070044	0.070384	0.074072	0.078036	0.08251	0.086714	0.090649	0.094931	0.099676	0.104864	0.110397
Generation for Own Use	Electricity: 62-AEO201 BkWh	0.039086	0.054687	0.073073	0.089533	0.137699	0.156054	0.174692	0.193983	0.206491	0.215639	0.225972	0.238055	0.252061	0.268
Total Electricity Generation	Electricity: 62-AEO201 BkWh	71.27985	65.19527	67.18773	72.40427	73.99715	81.32362	85.3935	88.12273	86.64802	89.36237	89.79423	90.40963	90.68015	91.05018
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	12.22296	12.08189	11.91075	11.76054	11.61544	11.52665	11.49147	11.43237	11.45395
Commercial	Electricity: 62-AEO201 2015 cents	10.03587	9.688845	9.68672	9.6305	9.717219	9.771399	9.604926	9.457642	9.313212	9.159344	9.059777	9.004432	8.933638	8.943477
Industrial	Electricity: 62-AEO201 2015 cents	7.853609	7.536975	7.478603	7.442873	7.533124	7.539436	7.419025	7.324804	7.227237	7.102014	7.030406	6.993533	6.987924	7.026441
Transportation	Electricity: 62-AEO201 2015 cents	11.32231	13.11341	13.95861	14.3929	14.66082	15.01774	14.92152	14.79806	14.68074	14.56654	14.47232	14.42166	14.1954	14.15362
All Sectors Average	Electricity: 62-AEO201 2015 cents	10.24878	10.03861	10.07699	9.9796	10.07449	10.11035	9.941954	9.784801	9.642498	9.491652	9.399864	9.353373	9.301291	9.32228
(nominal cents per kilowatthour)	62-AEO2016.113.														
Residential	Electricity: 62-AEO201 nom cents/	11.9667	12.1965	12.47019	12.53998	12.86727	13.21704	13.34598	13.4511	13.56423	13.66154	13.81004	14.02463	14.22057	14.5275
Commercial	Electricity: 62-AEO201 nom cents/	9.9321	9.688845	9.865864	10.01384	10.30188	10.56609	10.60986	10.68075	10.74156	10.7728	10.85449	10.98935	11.11243	11.34337
Industrial	Electricity: 62-AEO201 nom cents/	7.7724	7.536976	7.616911	7.739136	7.986371	8.152605	8.195253	8.272082	8.335665	8.353063	8.423106	8.535174	8.692187	8.911914
Transportation	Electricity: 62-AEO201 nom cents/	11.20523	13.11341	14.21676	14.96581	15.54292	16.23911	16.48271	16.71181	16.93229	17.13249	17.33924	17.60075	17.65747	17.9516
All Sectors Average	Electricity: 62-AEO201 nom cents/	10.1428	10.03861	10.26335	10.37684	10.68065	10.93261	10.98215	11.05022	11.12135	11.16365	11.26195	11.41521	11.56975	11.82382
Prices by Service Category	62-AEO2016.120.														
(2015 cents per kilowatthour)	62-AEO2016.121.														
Generation	Electricity: 62-AEO201 2015 cents	6.814224	6.518501	6.43928	6.293735	6.292253	6.226428	6.041923	5.897929	5.780801	5.643837	5.556292	5.509611	5.456153	5.480128
Transmission	Electricity: 62-AEO201 2015 cents	1.015802	1.045555	1.090412	1.114726	1.15668	1.208838	1.230613	1.236131	1.230117	1.222925	1.218912	1.216625	1.215752	1.214291
Distribution	Electricity: 62-AEO201 2015 cents	2.41875	2.474553	2.547296	2.571138	2.625556	2.675086	2.669418	2.65074	2.631581	2.624889	2.62466	2.627137	2.629385	2.627861
(nominal cents per kilowatthour)	62-AEO2016.125.														
Generation	Electricity: 62-AEO201 nom cents/	6.743763	6.518501	6.558367	6.544258	6.670841	6.732811	6.67407	6.660678	6.667391	6.638022	6.656975	6.724139	6.786838	6.950664
Transmission	Electricity: 62-AEO201 nom cents/	1.005298	1.045555	1.110577	1.159098	1.226275	1.30715	1.359367	1.395993	1.418777	1.438348	1.460375	1.484816	1.512258	1.540133
Distribution	Electricity: 62-AEO201 nom cents/	2.393739	2.474553	2.594405	2.673482	2.783528	2.892646	2.948711	2.993546	3.035181	3.087274	3.144597	3.206258	3.270658	3.333021
Fuel Consumption (quadrillion Btu)	62-AEO2016.130.														
Coal	Electricity: 62-AEO201 quads	0.504826	0.439879	0.439802	0.491056	0.480635	0.506877	0.507946	0.50603	0.481532	0.510805	0.513185	0.516956	0.516934	0.51425
Natural Gas	Electricity: 62-AEO201 quads	0.045575	0.033181	0.030979	0.022322	0.021395	0.027285	0.029338	0.03143	0.033642	0.03331	0.03497	0.036038	0.036446	0.039658
Oil	Electricity: 62-AEO201 quads	0.001494	0.001767	0.001768	0.001981	0.001939	0.002044	0.002047	0.002039	0.001956	0.002074	0.002084	0.002099	0.002099	0.002089
Total	Electricity: 62-AEO201 quads	0.551895	0.474827	0.472549	0.51536	0.503969	0.536206	0.539332	0.5395	0.51713	0.546189	0.550238	0.555094	0.555479	0.555996
Fuel Prices to the Electric Power Sector	62-AEO2016.136.														
(2015 dollars per million Btu)	62-AEO2016.137.														
Coal	Electricity: 62-AEO201 2015 \$/MM	1.961943	1.866259	1.663499	1.641815	1.82723	1.839412	1.852916	1.883952	1.908286	1.939153	1.966214	1.991267	2.020471	2.051547
Natural Gas	Electricity: 62-AEO201 2015 \$/MM	5.554363	3.213068	3.70918	4.141064	4.438976	4.759459	5.077534	5.212084	5.28473	5.503689	5.651329	5.814015	5.813277	5.701366
Distillate Fuel Oil	Electricity: 62-AEO201 2015 \$/MM	24.18631	15.15309	11.69005	13.22918	14.49766	16.40682	17.02642	17.37551	17.51706	17.94663	18.33166	18.79032	19.37787	19.84681
Residual Fuel Oil	Electricity: 62-AEO201 2015 \$/MM	11.90122	4.675263	2.582042	4.447128	5.391228	7.35708	8.336061	9.083159	9.6624	10.06906	10.40708	10.79367	11.32077	11.68915
(nominal dollars per million Btu)	62-AEO2016.143.														
Coal	Electricity: 62-AEO201 nom \$/MM	1.941656	1.866259	1.694263	1.707167	1.937169	1.989008	2.046781	2.127594	2.200956	2.280743	2.355715	2.430218	2.513237	2.602058
Natural Gas	Electricity: 62-AEO201 nom \$/MM	\$ 5.50	\$ 3.21	\$ 3.78	\$ 4.31	\$ 4.71	\$ 5.15	\$ 5.61	\$ 5.89	\$ 6.10	\$ 6.47	\$ 6.77	\$ 7.10	\$ 7.23	\$ 7.23
			-42%	18%	14%	9%	9%	9%	5%	4%	6%	5%	5%	2%	0%
Distillate Fuel Oil	Electricity: 62-AEO201 nom \$/MM	23.93622	15.15309	11.90625	13.75577	15.36995	17.74115	18.80784	19.6226	20.20362	21.10801	21.9631	22.93243	24.10388	25.17249
Residual Fuel Oil	Electricity: 62-AEO201 nom \$/MM	11.77816	4.675263	2.629794	4.624146	5.715604	7.955417	9.208236	10.25784	11.1443	11.84276	12.46868	13.173	14.08176	14.82581
Emissions from the Electric Power Sector	62-AEO2016.150.														
Total Carbon (million short tons)	Electricity: 62-AEO201 MMst	15.21285	13.53218	13.48921	14.8651	14.54121	15.4096	15.47426	15.45181	14.76198	15.6205	15.71568	15.84231	15.86466	15.81778
Carbon Dioxide (million short tons)	Electricity: 62-AEO201 MMst	55.78043	49.618	49.46043	54.50537	53.31781	56.50188	56.73896	56.65662	54.12729	57.27515	57.62418	58.08848	58.17042	57.99851

Sulfur Dioxide (million short tons)  
Nitrogen Oxide (million short tons)  
Mercury (short tons)

Electricity: 62-AEO201 MMst	0.071216	0.021023	0.01073	0.017159	0.014931	0.017411	0.01348	0.016655	0.011317	0.013026	0.012696	0.013925	0.015501	0.013609
Electricity: 62-AEO201 MMst	0.04	0.037564	0.034094	0.040539	0.039635	0.043082	0.042807	0.042603	0.038849	0.040389	0.040046	0.041237	0.041329	0.041063
Electricity: 62-AEO201 st	0.709685	0.662081	0.148802	0.166945	0.165716	0.174554	0.174777	0.175246	0.165638	0.176139	0.175514	0.178018	0.169911	0.17729



3.2899	3.2899	3.2899	3.2899	3.2899	3.2899	3.2899	3.3637	3.3637	3.3637	3.3637	3.3637	3.3637	3.3637	--
0.061038	0.064962	0.069363	0.073944	0.078688	0.083625	0.088842	0.094377	0.098666	0.102067	0.104885	0.107458	0.11007	5.00%	--
0.08195	0.085511	0.089425	0.093543	0.097823	0.102147	0.10653	0.111031	0.115485	0.119949	0.124456	0.128981	0.133543	10.80%	--
0.142988	0.150473	0.158787	0.167487	0.17651	0.185772	0.195372	0.205408	0.214152	0.222016	0.229341	0.236439	0.243613	7.20%	--
22.95341	23.10486	23.20569	23.29983	23.39945	23.52509	23.67816	23.85238	24.01943	24.18198	24.34133	24.508	24.68792	0.60%	--
27.99715	28.30304	28.55822	28.80448	29.05975	29.34042	29.63679	29.93819	30.23418	30.53375	30.82828	31.12418	31.41855	0.80%	--
17.20281	17.24234	17.26997	17.27218	17.2903	17.32973	17.36387	17.39477	17.46215	17.53318	17.64368	17.70599	17.78871	0.70%	--
0.305258	0.329748	0.353649	0.376441	0.397867	0.418049	0.43686	0.453804	0.469424	0.483643	0.496242	0.507795	0.518508	10.60%	--
68.45862	68.97998	69.38754	69.75292	70.14735	70.61328	71.11568	71.63914	72.18517	72.73254	73.30953	73.84596	74.41368	0.70%	--
5192	3.650377	2.993398	2.69269	2.936316	2.415178	2.575933	2.769439	2.687488	2.857286	1.327502	1.058799	1.334687	-4.70%	--
20.076	20.18895	18.77175	18.15309	18.00405	17.87856	18.06473	17.76134	17.28189	16.82559	14.80871	13.90036	13.68538	8.70%	--
0.116088	0.12208	0.128649	0.135433	0.142163	0.149177	0.156612	0.164706	0.172216	0.179407	0.186516	0.194271	0.20328	4.80%	--
90.61778	90.88905	90.5621	90.63193	90.6582	91.54982	92.11007	92.16998	92.35446	92.31187	92.44051	92.37199	92.48518	1.40%	--
73.90978	74.47256	74.91239	75.30696	75.73263	76.23561	76.77789	77.34278	77.93228	78.52296	79.14582	79.7247	80.33776	0.70%	--
48.00951	48.00073	47.43369	47.41997	47.40782	47.59981	47.58752	47.57569	47.56101	47.54667	47.53543	47.52184	47.50995	0.50%	--
0.194493	0.194458	0.19218	0.192124	0.192076	0.192843	0.192815	0.19275	0.192692	0.192634	0.192588	0.192534	0.192485	0.60%	--
4.492811	4.535767	4.52067	4.566968	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	8.56901	8.56901	8.56901	8.56901	-0.10%	--
0.002129	0.002232	0.002312	0.002312	0.002519	0.002618	0.002716	0.003197	0.003283	0.003384	0.003403	0.003486	0.003506	7.30%	--
29.41549	29.65251	29.9099	29.94721	30.05412	30.21752	30.45559	30.50582	30.61671	30.64442	30.79039	30.82177	30.94012	4.20%	--
90.68344	90.95471	90.62776	90.69759	90.72386	91.61549	92.17574	92.23564	92.42013	92.37753	92.50618	92.43765	92.55084	1.40%	--
90.61778	90.88905	90.5621	90.63193	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	0.06567	0.06567	0.06567	0.06567	0.00%	--
8826	0.308966	0.33126	0.354441	0.377974	0.402279	0.427684	0.454505	0.476426	0.494556	0.51019	0.525183	0.540996	6.90%	--
0.112799	0.117944	0.123607	0.12958	0.1358	0.142088	0.148464	0.155012	0.161495	0.167991	0.174552	0.181139	0.18778	10.90%	--

0.401624	0.42691	0.454867	0.484021	0.513774	0.544367	0.576148	0.609517	0.637921	0.662547	0.684742	0.706321	0.728776	7.60%
0.6088	0.12208	0.128649	0.135433	0.142163	0.149177	0.156612	0.164706	0.172216	0.179407	0.186516	0.194271	0.20328	4.80%
0.285536	0.30483	0.326219	0.348588	0.371611	0.39519	0.419536	0.444811	0.465705	0.48314	0.498226	0.51205	0.525496	9.50%
91.08507	91.38162	91.08263	91.18162	91.23763	92.15985	92.75188	92.84516	93.05805	93.04008	93.19092	93.14397	93.27962	1.40%

11.43922	11.43832	11.48299	11.53337	11.52912	11.41443	11.26176	11.22478	11.19311	11.16813	11.14614	11.11904	11.1175	-0.40%
8.925014	8.916671	8.946746	8.983862	8.971337	8.85821	8.709266	8.674335	8.640688	8.613256	8.58566	8.559811	8.555353	-0.50%
7.02956	7.058362	7.125892	7.179746	7.18802	7.123306	7.041264	7.028285	7.017284	7.00583	7.000553	6.99554	7.004627	-0.30%
14.08741	13.98443	13.91495	13.90915	13.83673	13.57348	13.20924	13.1062	12.9995	12.92228	12.82586	12.73471	12.68847	-0.10%
9.314715	9.321016	9.367084	9.41533	9.412586	9.311967	9.179503	9.151905	9.125634	9.103857	9.083039	9.062812	9.063481	-0.40%

14.80107	15.1084	15.49449	15.91104	16.26766	16.47914	16.63645	16.96332	17.2969	17.63957	17.99273	18.33549	18.71705	1.70%
11.54797	11.77766	12.07223	12.39382	12.65861	12.78869	12.86578	13.10898	13.35259	13.60426	13.85946	14.11527	14.40351	1.60%
9.095466	9.323096	9.615274	9.904928	10.14234	10.28399	10.40172	10.62141	10.84392	11.0654	11.30069	11.53576	11.79276	1.80%
18.22753	18.47145	18.77604	19.18858	19.5237	19.59618	19.51337	19.80659	20.08834	20.41017	20.70422	20.99974	21.36189	2.00%
12.0522	12.31174	12.63941	12.98906	13.28122	13.44378	13.56044	13.8307	14.10199	14.37914	14.66235	14.94473	15.25898	1.70%

5.470903	5.475227	5.518418	5.565322	5.564918	5.463193	5.323556	5.298555	5.269593	5.251219	5.228405	5.210036	5.207125	-0.90%
1.213595	1.21182	1.211156	1.210786	1.207537	1.205862	1.207551	1.208722	1.213498	1.214177	1.216689	1.219326	1.222732	0.60%
2.630216	2.633969	2.63751	2.639222	2.640132	2.642911	2.648396	2.644627	2.642543	2.638462	2.637944	2.63345	2.633624	0.20%

7.078738	7.231998	7.44624	7.677725	7.852132	7.887269	7.864232	8.007377	8.143188	8.294069	8.439986	8.591434	8.766541	1.20%
1.570256	1.600642	1.634265	1.670358	1.703841	1.740916	1.783857	1.826667	1.875238	1.917739	1.964048	2.010689	2.058552	2.70%
3.403206	3.4791	3.558906	3.640979	3.725242	3.815598	3.912347	3.996661	4.083564	4.167334	4.258318	4.342603	4.433882	2.40%

0.512486	0.512393	0.506018	0.505876	0.505743	0.507925	0.507779	0.507654	0.507498	0.507346	0.507226	0.507082	0.506956	0.60%
0.039164	0.03939	0.038757	0.03876	0.038386	0.043287	0.045509	0.04551	0.045942	0.045425	0.045305	0.044584	0.044645	1.20%
0.002081	0.002081	0.002056	0.002055	0.002054	0.002063	0.002063	0.002062	0.002061	0.002061	0.00206	0.00206	0.002059	0.60%
0.553731	0.553864	0.546831	0.546691	0.546183	0.553275	0.555352	0.555226	0.555501	0.554832	0.554592	0.553726	0.55366	0.60%

2.086544	2.119779	2.152951	2.188478	2.221019	2.243543	2.272595	2.292622	2.316428	2.338707	2.362743	2.383489	2.411772	1.00%
5.647802	5.592993	5.567693	5.586568	5.708795	5.757101	5.802251	5.796906	5.71484	5.735487	5.760739	5.76815	5.697744	2.30%
20.23567	20.70672	21.04569	21.63587	22.25459	22.86437	23.61338	23.99787	24.66942	25.08139	25.75888	26.43174	27.07738	2.30%
11.96215	12.28565	12.53941	13.02502	13.55116	14.08722	14.73964	14.98019	15.56631	15.86523	16.42111	17.05493	17.58353	5.40%

2.699754	2.799927	2.90507	3.019148	3.133871	3.239026	3.357194	3.464697	3.579614	3.693884	3.814072	3.930412	4.06038	3.20%
\$ 7.31	\$ 7.39	\$ 7.51	\$ 7.71	\$ 8.06	\$ 8.31	\$ 8.57	\$ 8.76	\$ 8.83	\$ 9.06	\$ 9.30	\$ 9.51	\$ 9.59	4.50%
1%	1%	2%	3%	5%	3%	3%	2%	1%	3%	3%	2%	1%	2.78%

26.1827	27.35065	28.39786	29.8481	31.40136	33.00953	34.8829	36.26649	38.12206	39.61495	41.58143	43.58637	45.58657	4.50%
7768	16.2276	16.91997	17.96887	19.12077	20.33787	21.77416	22.63863	24.05487	25.05844	26.50787	28.12385	29.60304	7.70%

15.76014	15.7566	15.57333	15.55204	15.54492	15.68346	15.73437	15.70906	15.65201	15.62133	15.61345	15.58783	15.60352	0.60%
57.78716	57.77419	57.1022	57.02412	56.99806	57.50604	57.69271	57.59985	57.39072	57.2782	57.24929	57.15539	57.21291	0.60%



0.01298	0.013471	0.01432	0.01169	0.01243	0.01197	0.01489	0.012671	0.013271	0.013344	0.014145	0.013434	0.01465	-1.40%
0.040854	0.040733	0.039563	0.039414	0.03947	0.040096	0.040184	0.040059	0.040304	0.040115	0.04009	0.039956	0.039876	0.20%
0.17409	0.17657	0.166757	0.174079	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 \$ 22.94	46.5%	53.5%
2018 \$	27.31 \$	18.08 \$ 22.37		
2019 \$	29.86 \$	19.77 \$ 24.47		
2020 \$	32.55 \$	21.54 \$ 26.66		
2021 \$	34.16 \$	22.61 \$ 27.98		
2022 \$	35.37 \$	23.41 \$ 28.98		
2023 \$	37.56 \$	24.86 \$ 30.77		
2024 \$	39.29 \$	26.01 \$ 32.19		
2025 \$	41.17 \$	27.25 \$ 33.73		
2026 \$	41.96 \$	27.77 \$ 34.37		
2027 \$	41.96 \$	27.77 \$ 34.38		
2028 \$	42.40 \$	28.07 \$ 34.74		
2029 \$	42.87 \$	28.37 \$ 35.12		
2030 \$	43.59 \$	28.85 \$ 35.71		
2031 \$	44.72 \$	29.60 \$ 36.64		
2032 \$	46.74 \$	30.94 \$ 38.29		
2033 \$	48.23 \$	31.92 \$ 39.51		
2034 \$	49.74 \$	32.92 \$ 40.75		
2035 \$	50.84 \$	33.65 \$ 41.65		
2036 \$	51.25 \$	33.92 \$ 41.98		

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		
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		

Location	DA Basis vs. North
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

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
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
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
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
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
1/1/2038	\$	69.26
2/1/2038	\$	64.52
3/1/2038	\$	53.16
4/1/2038	\$	48.31
5/1/2038	\$	49.99
6/1/2038	\$	49.60
7/1/2038	\$	62.64
8/1/2038	\$	56.91
9/1/2038	\$	47.92
10/1/2038	\$	48.22
11/1/2038	\$	48.02
12/1/2038	\$	49.01
1/1/2039	\$	70.84
2/1/2039	\$	65.99
3/1/2039	\$	54.37

4/1/2039	\$	49.42
5/1/2039	\$	51.14
6/1/2039	\$	50.73
7/1/2039	\$	64.07
8/1/2039	\$	58.21
9/1/2039	\$	49.01
10/1/2039	\$	49.32
11/1/2039	\$	49.11
12/1/2039	\$	50.13
1/1/2040	\$	71.44
2/1/2040	\$	66.55
3/1/2040	\$	54.83
4/1/2040	\$	49.84
5/1/2040	\$	51.57
6/1/2040	\$	51.16
7/1/2040	\$	64.62
8/1/2040	\$	58.70
9/1/2040	\$	49.43
10/1/2040	\$	49.74
11/1/2040	\$	49.53
12/1/2040	\$	50.55



STARTDATE	ENDDATE	SPP on pk	Aberdeen 1	Aberdeen 2	Beethoven
1/1/2017 12:00:00 AM	2/1/2017 12:00:00 AM	\$ 31.45	\$ 0.33	\$ 31.78	\$ 31.64
2/1/2017 12:00:00 AM	3/1/2017 12:00:00 AM	\$ 31.50	\$ 0.34	\$ 31.83	\$ 31.69
3/1/2017 12:00:00 AM	4/1/2017 12:00:00 AM	\$ 30.00	\$ 0.34	\$ 30.33	\$ 30.19
4/1/2017 12:00:00 AM	5/1/2017 12:00:00 AM	\$ 27.75	\$ 0.34	\$ 28.08	\$ 27.94
5/1/2017 12:00:00 AM	6/1/2017 12:00:00 AM	\$ 27.45	\$ 0.35	\$ 27.78	\$ 27.64
6/1/2017 12:00:00 AM	7/1/2017 12:00:00 AM	\$ 26.45	\$ 0.37	\$ 26.78	\$ 26.64
7/1/2017 12:00:00 AM	8/1/2017 12:00:00 AM	\$ 36.20	\$ 0.36	\$ 36.53	\$ 36.39
8/1/2017 12:00:00 AM	9/1/2017 12:00:00 AM	\$ 32.70	\$ 0.36	\$ 33.03	\$ 32.89
9/1/2017 12:00:00 AM	10/1/2017 12:00:00 AM	\$ 28.80	\$ 0.35	\$ 29.13	\$ 28.99
10/1/2017 12:00:00 AM	11/1/2017 12:00:00 AM	\$ 23.85	\$ 0.33	\$ 24.18	\$ 24.04
11/1/2017 12:00:00 AM	12/1/2017 12:00:00 AM	\$ 23.80	\$ 0.35	\$ 24.13	\$ 23.99
12/1/2017 12:00:00 AM	1/1/2018 12:00:00 AM	\$ 26.40	\$ 0.35	\$ 26.73	\$ 26.59
1/1/2018 12:00:00 AM	2/1/2018 12:00:00 AM	\$ 35.05	\$ 0.35	\$ 35.38	\$ 35.24
2/1/2018 12:00:00 AM	3/1/2018 12:00:00 AM	\$ 32.65	\$ 0.33	\$ 32.98	\$ 32.84
3/1/2018 12:00:00 AM	4/1/2018 12:00:00 AM	\$ 26.90	\$ 0.32	\$ 27.23	\$ 27.09
4/1/2018 12:00:00 AM	5/1/2018 12:00:00 AM	\$ 24.45	\$ 0.32	\$ 24.78	\$ 24.64
5/1/2018 12:00:00 AM	6/1/2018 12:00:00 AM	\$ 25.30	\$ 0.32	\$ 25.63	\$ 25.49
6/1/2018 12:00:00 AM	7/1/2018 12:00:00 AM	\$ 25.10	\$ 0.32	\$ 25.43	\$ 25.29
7/1/2018 12:00:00 AM	8/1/2018 12:00:00 AM	\$ 31.70	\$ 0.32	\$ 32.03	\$ 31.89
8/1/2018 12:00:00 AM	9/1/2018 12:00:00 AM	\$ 28.80	\$ 0.32	\$ 29.13	\$ 28.99
9/1/2018 12:00:00 AM	10/1/2018 12:00:00 AM	\$ 24.25	\$ 0.32	\$ 24.58	\$ 24.44
10/1/2018 12:00:00 AM	11/1/2018 12:00:00 AM	\$ 24.40	\$ 0.32	\$ 24.73	\$ 24.59
11/1/2018 12:00:00 AM	12/1/2018 12:00:00 AM	\$ 24.30	\$ 0.32	\$ 24.63	\$ 24.49
12/1/2018 12:00:00 AM	1/1/2019 12:00:00 AM	\$ 24.80	\$ 0.32	\$ 25.13	\$ 24.99
1/1/2019 12:00:00 AM	2/1/2019 12:00:00 AM	\$ 38.33	\$ 0.32	\$ 38.66	\$ 38.52
2/1/2019 12:00:00 AM	3/1/2019 12:00:00 AM	\$ 35.71	\$ 0.32	\$ 36.03	\$ 35.90
3/1/2019 12:00:00 AM	4/1/2019 12:00:00 AM	\$ 29.42	\$ 0.32	\$ 29.74	\$ 29.61
4/1/2019 12:00:00 AM	5/1/2019 12:00:00 AM	\$ 26.74	\$ 0.32	\$ 27.06	\$ 26.93
5/1/2019 12:00:00 AM	6/1/2019 12:00:00 AM	\$ 27.67	\$ 0.32	\$ 27.99	\$ 27.86
6/1/2019 12:00:00 AM	7/1/2019 12:00:00 AM	\$ 27.45	\$ 0.32	\$ 27.77	\$ 27.64
7/1/2019 12:00:00 AM	8/1/2019 12:00:00 AM	\$ 34.67	\$ 0.32	\$ 34.99	\$ 34.86
8/1/2019 12:00:00 AM	9/1/2019 12:00:00 AM	\$ 31.50	\$ 0.32	\$ 31.82	\$ 31.69
9/1/2019 12:00:00 AM	10/1/2019 12:00:00 AM	\$ 26.52	\$ 0.32	\$ 26.84	\$ 26.71
10/1/2019 12:00:00 AM	11/1/2019 12:00:00 AM	\$ 26.68	\$ 0.32	\$ 27.01	\$ 26.87
11/1/2019 12:00:00 AM	12/1/2019 12:00:00 AM	\$ 26.57	\$ 0.32	\$ 26.90	\$ 26.76



12/1/2019 12:00:00 AM	1/1/2020 12:00:00 AM	\$ 27.12	\$ 0.32	\$ 27.45	\$ 27.31
1/1/2020 12:00:00 AM	2/1/2020 12:00:00 AM	\$ 41.77	\$ 0.32	\$ 42.10	\$ 41.96
2/1/2020 12:00:00 AM	3/1/2020 12:00:00 AM	\$ 38.91	\$ 0.32	\$ 39.24	\$ 39.10
3/1/2020 12:00:00 AM	4/1/2020 12:00:00 AM	\$ 32.06	\$ 0.32	\$ 32.38	\$ 32.25
4/1/2020 12:00:00 AM	5/1/2020 12:00:00 AM	\$ 29.14	\$ 0.32	\$ 29.47	\$ 29.33
5/1/2020 12:00:00 AM	6/1/2020 12:00:00 AM	\$ 30.15	\$ 0.32	\$ 30.48	\$ 30.34
6/1/2020 12:00:00 AM	7/1/2020 12:00:00 AM	\$ 29.91	\$ 0.32	\$ 30.24	\$ 30.10
7/1/2020 12:00:00 AM	8/1/2020 12:00:00 AM	\$ 37.78	\$ 0.32	\$ 38.11	\$ 37.97
8/1/2020 12:00:00 AM	9/1/2020 12:00:00 AM	\$ 34.32	\$ 0.32	\$ 34.65	\$ 34.51
9/1/2020 12:00:00 AM	10/1/2020 12:00:00 AM	\$ 28.90	\$ 0.32	\$ 29.23	\$ 29.09
10/1/2020 12:00:00 AM	11/1/2020 12:00:00 AM	\$ 29.08	\$ 0.32	\$ 29.41	\$ 29.27
11/1/2020 12:00:00 AM	12/1/2020 12:00:00 AM	\$ 28.96	\$ 0.32	\$ 29.29	\$ 29.15
12/1/2020 12:00:00 AM	1/1/2021 12:00:00 AM	\$ 29.56	\$ 0.32	\$ 29.88	\$ 29.75
1/1/2021 12:00:00 AM	2/1/2021 12:00:00 AM	\$ 43.84	\$ 0.32	\$ 44.16	\$ 44.03
2/1/2021 12:00:00 AM	3/1/2021 12:00:00 AM	\$ 40.84	\$ 0.32	\$ 41.16	\$ 41.03
3/1/2021 12:00:00 AM	4/1/2021 12:00:00 AM	\$ 33.65	\$ 0.32	\$ 33.97	\$ 33.84
4/1/2021 12:00:00 AM	5/1/2021 12:00:00 AM	\$ 30.58	\$ 0.32	\$ 30.91	\$ 30.77
5/1/2021 12:00:00 AM	6/1/2021 12:00:00 AM	\$ 31.64	\$ 0.32	\$ 31.97	\$ 31.83
6/1/2021 12:00:00 AM	7/1/2021 12:00:00 AM	\$ 31.39	\$ 0.32	\$ 31.72	\$ 31.58
7/1/2021 12:00:00 AM	8/1/2021 12:00:00 AM	\$ 39.65	\$ 0.32	\$ 39.97	\$ 39.84
8/1/2021 12:00:00 AM	9/1/2021 12:00:00 AM	\$ 36.02	\$ 0.32	\$ 36.35	\$ 36.21
9/1/2021 12:00:00 AM	10/1/2021 12:00:00 AM	\$ 30.33	\$ 0.32	\$ 30.66	\$ 30.52
10/1/2021 12:00:00 AM	11/1/2021 12:00:00 AM	\$ 30.52	\$ 0.32	\$ 30.84	\$ 30.71
11/1/2021 12:00:00 AM	12/1/2021 12:00:00 AM	\$ 30.39	\$ 0.32	\$ 30.72	\$ 30.58
12/1/2021 12:00:00 AM	1/1/2022 12:00:00 AM	\$ 31.02	\$ 0.32	\$ 31.34	\$ 31.21
1/1/2022 12:00:00 AM	2/1/2022 12:00:00 AM	\$ 45.40	\$ 0.32	\$ 45.72	\$ 45.59
2/1/2022 12:00:00 AM	3/1/2022 12:00:00 AM	\$ 42.29	\$ 0.32	\$ 42.61	\$ 42.48
3/1/2022 12:00:00 AM	4/1/2022 12:00:00 AM	\$ 34.84	\$ 0.32	\$ 35.17	\$ 35.03
4/1/2022 12:00:00 AM	5/1/2022 12:00:00 AM	\$ 31.67	\$ 0.32	\$ 31.99	\$ 31.86
5/1/2022 12:00:00 AM	6/1/2022 12:00:00 AM	\$ 32.77	\$ 0.32	\$ 33.09	\$ 32.96
6/1/2022 12:00:00 AM	7/1/2022 12:00:00 AM	\$ 32.51	\$ 0.32	\$ 32.83	\$ 32.70
7/1/2022 12:00:00 AM	8/1/2022 12:00:00 AM	\$ 41.06	\$ 0.32	\$ 41.38	\$ 41.25
8/1/2022 12:00:00 AM	9/1/2022 12:00:00 AM	\$ 37.30	\$ 0.32	\$ 37.63	\$ 37.49
9/1/2022 12:00:00 AM	10/1/2022 12:00:00 AM	\$ 31.41	\$ 0.32	\$ 31.73	\$ 31.60
10/1/2022 12:00:00 AM	11/1/2022 12:00:00 AM	\$ 31.60	\$ 0.32	\$ 31.93	\$ 31.79
11/1/2022 12:00:00 AM	12/1/2022 12:00:00 AM	\$ 31.47	\$ 0.32	\$ 31.80	\$ 31.66
12/1/2022 12:00:00 AM	1/1/2023 12:00:00 AM	\$ 32.12	\$ 0.32	\$ 32.45	\$ 32.31
1/1/2023 12:00:00 AM	2/1/2023 12:00:00 AM	\$ 48.21	\$ 0.32	\$ 48.54	\$ 48.40
2/1/2023 12:00:00 AM	3/1/2023 12:00:00 AM	\$ 44.91	\$ 0.32	\$ 45.24	\$ 45.10
3/1/2023 12:00:00 AM	4/1/2023 12:00:00 AM	\$ 37.00	\$ 0.32	\$ 37.33	\$ 37.19
4/1/2023 12:00:00 AM	5/1/2023 12:00:00 AM	\$ 33.63	\$ 0.32	\$ 33.96	\$ 33.82
5/1/2023 12:00:00 AM	6/1/2023 12:00:00 AM	\$ 34.80	\$ 0.32	\$ 35.13	\$ 34.99
6/1/2023 12:00:00 AM	7/1/2023 12:00:00 AM	\$ 34.53	\$ 0.32	\$ 34.85	\$ 34.72
7/1/2023 12:00:00 AM	8/1/2023 12:00:00 AM	\$ 43.60	\$ 0.32	\$ 43.93	\$ 43.79
8/1/2023 12:00:00 AM	9/1/2023 12:00:00 AM	\$ 39.61	\$ 0.32	\$ 39.94	\$ 39.80
9/1/2023 12:00:00 AM	10/1/2023 12:00:00 AM	\$ 33.36	\$ 0.32	\$ 33.68	\$ 33.55
10/1/2023 12:00:00 AM	11/1/2023 12:00:00 AM	\$ 33.56	\$ 0.32	\$ 33.89	\$ 33.75



11/1/2023 12:00:00 AM	12/1/2023 12:00:00 AM	\$ 33.42	\$ 0.32	\$ 33.75	\$ 33.61
12/1/2023 12:00:00 AM	1/1/2024 12:00:00 AM	\$ 34.11	\$ 0.32	\$ 34.44	\$ 34.30
1/1/2024 12:00:00 AM	2/1/2024 12:00:00 AM	\$ 50.43	\$ 0.32	\$ 50.75	\$ 50.62
2/1/2024 12:00:00 AM	3/1/2024 12:00:00 AM	\$ 46.98	\$ 0.32	\$ 47.30	\$ 47.17
3/1/2024 12:00:00 AM	4/1/2024 12:00:00 AM	\$ 38.70	\$ 0.32	\$ 39.03	\$ 38.89
4/1/2024 12:00:00 AM	5/1/2024 12:00:00 AM	\$ 35.18	\$ 0.32	\$ 35.50	\$ 35.37
5/1/2024 12:00:00 AM	6/1/2024 12:00:00 AM	\$ 36.40	\$ 0.32	\$ 36.73	\$ 36.59
6/1/2024 12:00:00 AM	7/1/2024 12:00:00 AM	\$ 36.11	\$ 0.32	\$ 36.44	\$ 36.30
7/1/2024 12:00:00 AM	8/1/2024 12:00:00 AM	\$ 45.61	\$ 0.32	\$ 45.93	\$ 45.80
8/1/2024 12:00:00 AM	9/1/2024 12:00:00 AM	\$ 41.44	\$ 0.32	\$ 41.76	\$ 41.63
9/1/2024 12:00:00 AM	10/1/2024 12:00:00 AM	\$ 34.89	\$ 0.32	\$ 35.21	\$ 35.08
10/1/2024 12:00:00 AM	11/1/2024 12:00:00 AM	\$ 35.11	\$ 0.32	\$ 35.43	\$ 35.30
11/1/2024 12:00:00 AM	12/1/2024 12:00:00 AM	\$ 34.96	\$ 0.32	\$ 35.29	\$ 35.15
12/1/2024 12:00:00 AM	1/1/2025 12:00:00 AM	\$ 35.68	\$ 0.32	\$ 36.01	\$ 35.87
1/1/2025 12:00:00 AM	2/1/2025 12:00:00 AM	\$ 52.85	\$ 0.32	\$ 53.17	\$ 53.04
2/1/2025 12:00:00 AM	3/1/2025 12:00:00 AM	\$ 49.23	\$ 0.32	\$ 49.55	\$ 49.42
3/1/2025 12:00:00 AM	4/1/2025 12:00:00 AM	\$ 40.56	\$ 0.32	\$ 40.88	\$ 40.75
4/1/2025 12:00:00 AM	5/1/2025 12:00:00 AM	\$ 36.86	\$ 0.32	\$ 37.19	\$ 37.05
5/1/2025 12:00:00 AM	6/1/2025 12:00:00 AM	\$ 38.15	\$ 0.32	\$ 38.47	\$ 38.34
6/1/2025 12:00:00 AM	7/1/2025 12:00:00 AM	\$ 37.84	\$ 0.32	\$ 38.17	\$ 38.03
7/1/2025 12:00:00 AM	8/1/2025 12:00:00 AM	\$ 47.80	\$ 0.32	\$ 48.12	\$ 47.99
8/1/2025 12:00:00 AM	9/1/2025 12:00:00 AM	\$ 43.42	\$ 0.32	\$ 43.75	\$ 43.61
9/1/2025 12:00:00 AM	10/1/2025 12:00:00 AM	\$ 36.56	\$ 0.32	\$ 36.89	\$ 36.75
10/1/2025 12:00:00 AM	11/1/2025 12:00:00 AM	\$ 36.79	\$ 0.32	\$ 37.11	\$ 36.98
11/1/2025 12:00:00 AM	12/1/2025 12:00:00 AM	\$ 36.64	\$ 0.32	\$ 36.96	\$ 36.83
12/1/2025 12:00:00 AM	1/1/2026 12:00:00 AM	\$ 37.39	\$ 0.32	\$ 37.72	\$ 37.58
1/1/2026 12:00:00 AM	2/1/2026 12:00:00 AM	\$ 53.86	\$ 0.32	\$ 54.18	\$ 54.05
2/1/2026 12:00:00 AM	3/1/2026 12:00:00 AM	\$ 50.17	\$ 0.32	\$ 50.49	\$ 50.36
3/1/2026 12:00:00 AM	4/1/2026 12:00:00 AM	\$ 41.33	\$ 0.32	\$ 41.66	\$ 41.52
4/1/2026 12:00:00 AM	5/1/2026 12:00:00 AM	\$ 37.57	\$ 0.32	\$ 37.89	\$ 37.76
5/1/2026 12:00:00 AM	6/1/2026 12:00:00 AM	\$ 38.87	\$ 0.32	\$ 39.20	\$ 39.06
6/1/2026 12:00:00 AM	7/1/2026 12:00:00 AM	\$ 38.57	\$ 0.32	\$ 38.89	\$ 38.76
7/1/2026 12:00:00 AM	8/1/2026 12:00:00 AM	\$ 48.71	\$ 0.32	\$ 49.03	\$ 48.90
8/1/2026 12:00:00 AM	9/1/2026 12:00:00 AM	\$ 44.25	\$ 0.32	\$ 44.58	\$ 44.44
9/1/2026 12:00:00 AM	10/1/2026 12:00:00 AM	\$ 37.26	\$ 0.32	\$ 37.59	\$ 37.45
10/1/2026 12:00:00 AM	11/1/2026 12:00:00 AM	\$ 37.49	\$ 0.32	\$ 37.82	\$ 37.68
11/1/2026 12:00:00 AM	12/1/2026 12:00:00 AM	\$ 37.34	\$ 0.32	\$ 37.66	\$ 37.53
12/1/2026 12:00:00 AM	1/1/2027 12:00:00 AM	\$ 38.11	\$ 0.32	\$ 38.43	\$ 38.30
1/1/2027 12:00:00 AM	2/1/2027 12:00:00 AM	\$ 53.86	\$ 0.32	\$ 54.18	\$ 54.05
2/1/2027 12:00:00 AM	3/1/2027 12:00:00 AM	\$ 50.17	\$ 0.32	\$ 50.49	\$ 50.36
3/1/2027 12:00:00 AM	4/1/2027 12:00:00 AM	\$ 41.33	\$ 0.32	\$ 41.66	\$ 41.52
4/1/2027 12:00:00 AM	5/1/2027 12:00:00 AM	\$ 37.57	\$ 0.32	\$ 37.89	\$ 37.76
5/1/2027 12:00:00 AM	6/1/2027 12:00:00 AM	\$ 38.88	\$ 0.32	\$ 39.20	\$ 39.07
6/1/2027 12:00:00 AM	7/1/2027 12:00:00 AM	\$ 38.57	\$ 0.32	\$ 38.89	\$ 38.76
7/1/2027 12:00:00 AM	8/1/2027 12:00:00 AM	\$ 48.71	\$ 0.32	\$ 49.03	\$ 48.90
8/1/2027 12:00:00 AM	9/1/2027 12:00:00 AM	\$ 44.25	\$ 0.32	\$ 44.58	\$ 44.44
9/1/2027 12:00:00 AM	10/1/2027 12:00:00 AM	\$ 37.26	\$ 0.32	\$ 37.59	\$ 37.45



10/1/2027 12:00:00 AM	11/1/2027 12:00:00 AM	\$ 37.49	\$ 0.32	\$ 37.82	\$ 37.68
11/1/2027 12:00:00 AM	12/1/2027 12:00:00 AM	\$ 37.34	\$ 0.32	\$ 37.66	\$ 37.53
12/1/2027 12:00:00 AM	1/1/2028 12:00:00 AM	\$ 38.11	\$ 0.32	\$ 38.43	\$ 38.30
1/1/2028 12:00:00 AM	2/1/2028 12:00:00 AM	\$ 54.43	\$ 0.32	\$ 54.75	\$ 54.62
2/1/2028 12:00:00 AM	3/1/2028 12:00:00 AM	\$ 50.70	\$ 0.32	\$ 51.02	\$ 50.89
3/1/2028 12:00:00 AM	4/1/2028 12:00:00 AM	\$ 41.77	\$ 0.32	\$ 42.10	\$ 41.96
4/1/2028 12:00:00 AM	5/1/2028 12:00:00 AM	\$ 37.97	\$ 0.32	\$ 38.29	\$ 38.16
5/1/2028 12:00:00 AM	6/1/2028 12:00:00 AM	\$ 39.29	\$ 0.32	\$ 39.61	\$ 39.48
6/1/2028 12:00:00 AM	7/1/2028 12:00:00 AM	\$ 38.98	\$ 0.32	\$ 39.30	\$ 39.17
7/1/2028 12:00:00 AM	8/1/2028 12:00:00 AM	\$ 49.22	\$ 0.32	\$ 49.55	\$ 49.41
8/1/2028 12:00:00 AM	9/1/2028 12:00:00 AM	\$ 44.72	\$ 0.32	\$ 45.05	\$ 44.91
9/1/2028 12:00:00 AM	10/1/2028 12:00:00 AM	\$ 37.66	\$ 0.32	\$ 37.98	\$ 37.85
10/1/2028 12:00:00 AM	11/1/2028 12:00:00 AM	\$ 37.89	\$ 0.32	\$ 38.21	\$ 38.08
11/1/2028 12:00:00 AM	12/1/2028 12:00:00 AM	\$ 37.73	\$ 0.32	\$ 38.06	\$ 37.92
12/1/2028 12:00:00 AM	1/1/2029 12:00:00 AM	\$ 38.51	\$ 0.32	\$ 38.83	\$ 38.70
1/1/2029 12:00:00 AM	2/1/2029 12:00:00 AM	\$ 55.02	\$ 0.32	\$ 55.35	\$ 55.21
2/1/2029 12:00:00 AM	3/1/2029 12:00:00 AM	\$ 51.25	\$ 0.32	\$ 51.58	\$ 51.44
3/1/2029 12:00:00 AM	4/1/2029 12:00:00 AM	\$ 42.23	\$ 0.32	\$ 42.55	\$ 42.42
4/1/2029 12:00:00 AM	5/1/2029 12:00:00 AM	\$ 38.38	\$ 0.32	\$ 38.71	\$ 38.57
5/1/2029 12:00:00 AM	6/1/2029 12:00:00 AM	\$ 39.72	\$ 0.32	\$ 40.04	\$ 39.91
6/1/2029 12:00:00 AM	7/1/2029 12:00:00 AM	\$ 39.40	\$ 0.32	\$ 39.73	\$ 39.59
7/1/2029 12:00:00 AM	8/1/2029 12:00:00 AM	\$ 49.76	\$ 0.32	\$ 50.09	\$ 49.95
8/1/2029 12:00:00 AM	9/1/2029 12:00:00 AM	\$ 45.21	\$ 0.32	\$ 45.54	\$ 45.40
9/1/2029 12:00:00 AM	10/1/2029 12:00:00 AM	\$ 38.07	\$ 0.32	\$ 38.39	\$ 38.26
10/1/2029 12:00:00 AM	11/1/2029 12:00:00 AM	\$ 38.30	\$ 0.32	\$ 38.63	\$ 38.49
11/1/2029 12:00:00 AM	12/1/2029 12:00:00 AM	\$ 38.15	\$ 0.32	\$ 38.47	\$ 38.34
12/1/2029 12:00:00 AM	1/1/2030 12:00:00 AM	\$ 38.93	\$ 0.32	\$ 39.26	\$ 39.12
1/1/2030 12:00:00 AM	2/1/2030 12:00:00 AM	\$ 55.95	\$ 0.32	\$ 56.28	\$ 56.14
2/1/2030 12:00:00 AM	3/1/2030 12:00:00 AM	\$ 52.12	\$ 0.32	\$ 52.45	\$ 52.31
3/1/2030 12:00:00 AM	4/1/2030 12:00:00 AM	\$ 42.94	\$ 0.32	\$ 43.27	\$ 43.13
4/1/2030 12:00:00 AM	5/1/2030 12:00:00 AM	\$ 39.03	\$ 0.32	\$ 39.36	\$ 39.22
5/1/2030 12:00:00 AM	6/1/2030 12:00:00 AM	\$ 40.39	\$ 0.32	\$ 40.71	\$ 40.58
6/1/2030 12:00:00 AM	7/1/2030 12:00:00 AM	\$ 40.07	\$ 0.32	\$ 40.39	\$ 40.26
7/1/2030 12:00:00 AM	8/1/2030 12:00:00 AM	\$ 50.61	\$ 0.32	\$ 50.93	\$ 50.80
8/1/2030 12:00:00 AM	9/1/2030 12:00:00 AM	\$ 45.98	\$ 0.32	\$ 46.30	\$ 46.17
9/1/2030 12:00:00 AM	10/1/2030 12:00:00 AM	\$ 38.71	\$ 0.32	\$ 39.04	\$ 38.90
10/1/2030 12:00:00 AM	11/1/2030 12:00:00 AM	\$ 38.95	\$ 0.32	\$ 39.28	\$ 39.14
11/1/2030 12:00:00 AM	12/1/2030 12:00:00 AM	\$ 38.79	\$ 0.32	\$ 39.12	\$ 38.98
12/1/2030 12:00:00 AM	1/1/2031 12:00:00 AM	\$ 39.59	\$ 0.32	\$ 39.92	\$ 39.78
1/1/2031 12:00:00 AM	2/1/2031 12:00:00 AM	\$ 57.40	\$ 0.32	\$ 57.73	\$ 57.59
2/1/2031 12:00:00 AM	3/1/2031 12:00:00 AM	\$ 53.47	\$ 0.32	\$ 53.80	\$ 53.66
3/1/2031 12:00:00 AM	4/1/2031 12:00:00 AM	\$ 44.05	\$ 0.32	\$ 44.38	\$ 44.24
4/1/2031 12:00:00 AM	5/1/2031 12:00:00 AM	\$ 40.04	\$ 0.32	\$ 40.37	\$ 40.23
5/1/2031 12:00:00 AM	6/1/2031 12:00:00 AM	\$ 41.43	\$ 0.32	\$ 41.76	\$ 41.62
6/1/2031 12:00:00 AM	7/1/2031 12:00:00 AM	\$ 41.11	\$ 0.32	\$ 41.43	\$ 41.30
7/1/2031 12:00:00 AM	8/1/2031 12:00:00 AM	\$ 51.91	\$ 0.32	\$ 52.24	\$ 52.10
8/1/2031 12:00:00 AM	9/1/2031 12:00:00 AM	\$ 47.17	\$ 0.32	\$ 47.49	\$ 47.36



9/1/2031 12:00:00 AM	10/1/2031 12:00:00 AM	\$ 39.71	\$ 0.32	\$ 40.04	\$ 39.90
10/1/2031 12:00:00 AM	11/1/2031 12:00:00 AM	\$ 39.96	\$ 0.32	\$ 40.28	\$ 40.15
11/1/2031 12:00:00 AM	12/1/2031 12:00:00 AM	\$ 39.80	\$ 0.32	\$ 40.12	\$ 39.99
12/1/2031 12:00:00 AM	1/1/2032 12:00:00 AM	\$ 40.61	\$ 0.32	\$ 40.94	\$ 40.80
1/1/2032 12:00:00 AM	2/1/2032 12:00:00 AM	\$ 59.99	\$ 0.32	\$ 60.32	\$ 60.18
2/1/2032 12:00:00 AM	3/1/2032 12:00:00 AM	\$ 55.89	\$ 0.32	\$ 56.21	\$ 56.08
3/1/2032 12:00:00 AM	4/1/2032 12:00:00 AM	\$ 46.04	\$ 0.32	\$ 46.37	\$ 46.23
4/1/2032 12:00:00 AM	5/1/2032 12:00:00 AM	\$ 41.85	\$ 0.32	\$ 42.17	\$ 42.04
5/1/2032 12:00:00 AM	6/1/2032 12:00:00 AM	\$ 43.30	\$ 0.32	\$ 43.63	\$ 43.49
6/1/2032 12:00:00 AM	7/1/2032 12:00:00 AM	\$ 42.96	\$ 0.32	\$ 43.29	\$ 43.15
7/1/2032 12:00:00 AM	8/1/2032 12:00:00 AM	\$ 54.26	\$ 0.32	\$ 54.58	\$ 54.45
8/1/2032 12:00:00 AM	9/1/2032 12:00:00 AM	\$ 49.30	\$ 0.32	\$ 49.62	\$ 49.49
9/1/2032 12:00:00 AM	10/1/2032 12:00:00 AM	\$ 41.51	\$ 0.32	\$ 41.83	\$ 41.70
10/1/2032 12:00:00 AM	11/1/2032 12:00:00 AM	\$ 41.76	\$ 0.32	\$ 42.09	\$ 41.95
11/1/2032 12:00:00 AM	12/1/2032 12:00:00 AM	\$ 41.59	\$ 0.32	\$ 41.92	\$ 41.78
12/1/2032 12:00:00 AM	1/1/2033 12:00:00 AM	\$ 42.45	\$ 0.32	\$ 42.77	\$ 42.64
1/1/2033 12:00:00 AM	2/1/2033 12:00:00 AM	\$ 61.90	\$ 0.32	\$ 62.23	\$ 62.09
2/1/2033 12:00:00 AM	3/1/2033 12:00:00 AM	\$ 57.66	\$ 0.32	\$ 57.99	\$ 57.85
3/1/2033 12:00:00 AM	4/1/2033 12:00:00 AM	\$ 47.51	\$ 0.32	\$ 47.83	\$ 47.70
4/1/2033 12:00:00 AM	5/1/2033 12:00:00 AM	\$ 43.18	\$ 0.32	\$ 43.51	\$ 43.37
5/1/2033 12:00:00 AM	6/1/2033 12:00:00 AM	\$ 44.68	\$ 0.32	\$ 45.01	\$ 44.87
6/1/2033 12:00:00 AM	7/1/2033 12:00:00 AM	\$ 44.33	\$ 0.32	\$ 44.66	\$ 44.52
7/1/2033 12:00:00 AM	8/1/2033 12:00:00 AM	\$ 55.99	\$ 0.32	\$ 56.31	\$ 56.18
8/1/2033 12:00:00 AM	9/1/2033 12:00:00 AM	\$ 50.87	\$ 0.32	\$ 51.19	\$ 51.06
9/1/2033 12:00:00 AM	10/1/2033 12:00:00 AM	\$ 42.83	\$ 0.32	\$ 43.15	\$ 43.02
10/1/2033 12:00:00 AM	11/1/2033 12:00:00 AM	\$ 43.09	\$ 0.32	\$ 43.42	\$ 43.28
11/1/2033 12:00:00 AM	12/1/2033 12:00:00 AM	\$ 42.92	\$ 0.32	\$ 43.24	\$ 43.11
12/1/2033 12:00:00 AM	1/1/2034 12:00:00 AM	\$ 43.80	\$ 0.32	\$ 44.13	\$ 43.99
1/1/2034 12:00:00 AM	2/1/2034 12:00:00 AM	\$ 63.84	\$ 0.32	\$ 64.16	\$ 64.03
2/1/2034 12:00:00 AM	3/1/2034 12:00:00 AM	\$ 59.47	\$ 0.32	\$ 59.79	\$ 59.66
3/1/2034 12:00:00 AM	4/1/2034 12:00:00 AM	\$ 48.99	\$ 0.32	\$ 49.32	\$ 49.18
4/1/2034 12:00:00 AM	5/1/2034 12:00:00 AM	\$ 44.53	\$ 0.32	\$ 44.86	\$ 44.72
5/1/2034 12:00:00 AM	6/1/2034 12:00:00 AM	\$ 46.08	\$ 0.32	\$ 46.41	\$ 46.27
6/1/2034 12:00:00 AM	7/1/2034 12:00:00 AM	\$ 45.72	\$ 0.32	\$ 46.04	\$ 45.91
7/1/2034 12:00:00 AM	8/1/2034 12:00:00 AM	\$ 57.74	\$ 0.32	\$ 58.06	\$ 57.93
8/1/2034 12:00:00 AM	9/1/2034 12:00:00 AM	\$ 52.45	\$ 0.32	\$ 52.78	\$ 52.64
9/1/2034 12:00:00 AM	10/1/2034 12:00:00 AM	\$ 44.17	\$ 0.32	\$ 44.49	\$ 44.36
10/1/2034 12:00:00 AM	11/1/2034 12:00:00 AM	\$ 44.44	\$ 0.32	\$ 44.77	\$ 44.63
11/1/2034 12:00:00 AM	12/1/2034 12:00:00 AM	\$ 44.26	\$ 0.32	\$ 44.58	\$ 44.45
12/1/2034 12:00:00 AM	1/1/2035 12:00:00 AM	\$ 45.17	\$ 0.32	\$ 45.49	\$ 45.36
1/1/2035 12:00:00 AM	2/1/2035 12:00:00 AM	\$ 65.25	\$ 0.32	\$ 65.57	\$ 65.44
2/1/2035 12:00:00 AM	3/1/2035 12:00:00 AM	\$ 60.78	\$ 0.32	\$ 61.10	\$ 60.97
3/1/2035 12:00:00 AM	4/1/2035 12:00:00 AM	\$ 50.08	\$ 0.32	\$ 50.40	\$ 50.27
4/1/2035 12:00:00 AM	5/1/2035 12:00:00 AM	\$ 45.51	\$ 0.32	\$ 45.84	\$ 45.70
5/1/2035 12:00:00 AM	6/1/2035 12:00:00 AM	\$ 47.10	\$ 0.32	\$ 47.42	\$ 47.29
6/1/2035 12:00:00 AM	7/1/2035 12:00:00 AM	\$ 46.72	\$ 0.32	\$ 47.05	\$ 46.91
7/1/2035 12:00:00 AM	8/1/2035 12:00:00 AM	\$ 59.01	\$ 0.32	\$ 59.34	\$ 59.20

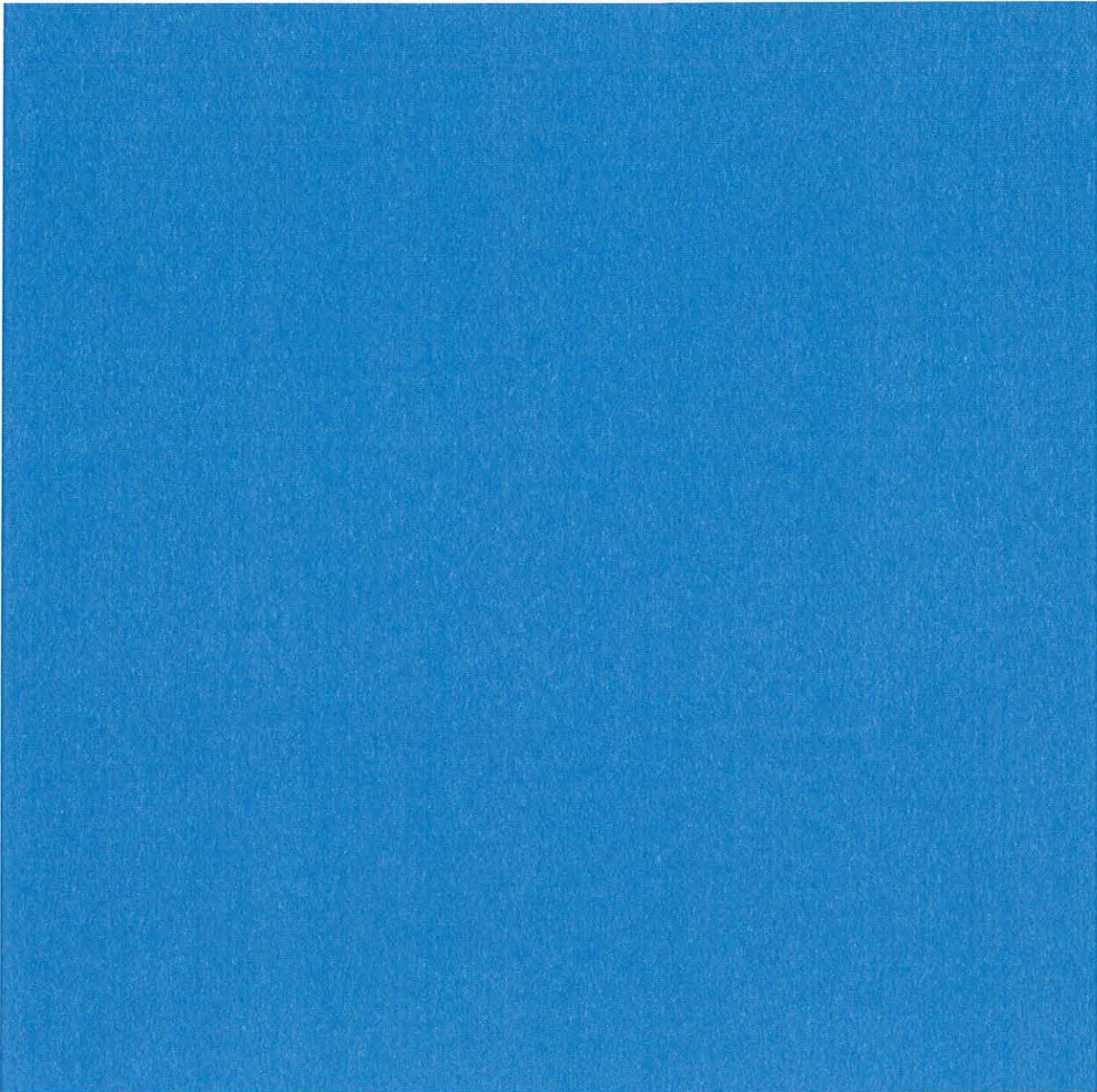


8/1/2035 12:00:00 AM	9/1/2035 12:00:00 AM	\$ 53.61	\$ 0.32	\$ 53.94	\$ 53.80
9/1/2035 12:00:00 AM	10/1/2035 12:00:00 AM	\$ 45.14	\$ 0.32	\$ 45.47	\$ 45.33
10/1/2035 12:00:00 AM	11/1/2035 12:00:00 AM	\$ 45.42	\$ 0.32	\$ 45.75	\$ 45.61
11/1/2035 12:00:00 AM	12/1/2035 12:00:00 AM	\$ 45.24	\$ 0.32	\$ 45.56	\$ 45.43
12/1/2035 12:00:00 AM	1/1/2036 12:00:00 AM	\$ 46.17	\$ 0.32	\$ 46.49	\$ 46.36
1/1/2036 12:00:00 AM	2/1/2036 12:00:00 AM	\$ 65.77	\$ 0.32	\$ 66.10	\$ 65.96
2/1/2036 12:00:00 AM	3/1/2036 12:00:00 AM	\$ 61.27	\$ 0.32	\$ 61.59	\$ 61.46
3/1/2036 12:00:00 AM	4/1/2036 12:00:00 AM	\$ 50.48	\$ 0.32	\$ 50.80	\$ 50.67
4/1/2036 12:00:00 AM	5/1/2036 12:00:00 AM	\$ 45.88	\$ 0.32	\$ 46.21	\$ 46.07
5/1/2036 12:00:00 AM	6/1/2036 12:00:00 AM	\$ 47.48	\$ 0.32	\$ 47.80	\$ 47.67
6/1/2036 12:00:00 AM	7/1/2036 12:00:00 AM	\$ 47.10	\$ 0.32	\$ 47.43	\$ 47.29
7/1/2036 12:00:00 AM	8/1/2036 12:00:00 AM	\$ 59.49	\$ 0.32	\$ 59.81	\$ 59.68
8/1/2036 12:00:00 AM	9/1/2036 12:00:00 AM	\$ 54.05	\$ 0.32	\$ 54.37	\$ 54.24
9/1/2036 12:00:00 AM	10/1/2036 12:00:00 AM	\$ 45.51	\$ 0.32	\$ 45.83	\$ 45.70
10/1/2036 12:00:00 AM	11/1/2036 12:00:00 AM	\$ 45.79	\$ 0.32	\$ 46.11	\$ 45.98
11/1/2036 12:00:00 AM	12/1/2036 12:00:00 AM	\$ 45.60	\$ 0.32	\$ 45.93	\$ 45.79
12/1/2036 12:00:00 AM	1/1/2037 12:00:00 AM	\$ 46.54	\$ 0.32	\$ 46.86	\$ 46.73
1/1/2037 12:00:00 AM	2/1/2037 12:00:00 AM	\$ 67.47	\$ 0.32	\$ 67.79	\$ 67.66
2/1/2037 12:00:00 AM	3/1/2037 12:00:00 AM	\$ 62.85	\$ 0.32	\$ 63.17	\$ 63.04
3/1/2037 12:00:00 AM	4/1/2037 12:00:00 AM	\$ 51.78	\$ 0.32	\$ 52.11	\$ 51.97
4/1/2037 12:00:00 AM	5/1/2037 12:00:00 AM	\$ 47.07	\$ 0.32	\$ 47.39	\$ 47.26
5/1/2037 12:00:00 AM	6/1/2037 12:00:00 AM	\$ 48.70	\$ 0.32	\$ 49.03	\$ 48.89
6/1/2037 12:00:00 AM	7/1/2037 12:00:00 AM	\$ 48.32	\$ 0.32	\$ 48.64	\$ 48.51
7/1/2037 12:00:00 AM	8/1/2037 12:00:00 AM	\$ 61.02	\$ 0.32	\$ 61.35	\$ 61.21
8/1/2037 12:00:00 AM	9/1/2037 12:00:00 AM	\$ 55.44	\$ 0.32	\$ 55.76	\$ 55.63
9/1/2037 12:00:00 AM	10/1/2037 12:00:00 AM	\$ 46.68	\$ 0.32	\$ 47.01	\$ 46.87
10/1/2037 12:00:00 AM	11/1/2037 12:00:00 AM	\$ 46.97	\$ 0.32	\$ 47.29	\$ 47.16
11/1/2037 12:00:00 AM	12/1/2037 12:00:00 AM	\$ 46.78	\$ 0.32	\$ 47.10	\$ 46.97
12/1/2037 12:00:00 AM	1/1/2038 12:00:00 AM	\$ 47.74	\$ 0.32	\$ 48.06	\$ 47.93
1/1/2038 12:00:00 AM	2/1/2038 12:00:00 AM	\$ 69.26	\$ 0.32	\$ 69.58	\$ 69.45
2/1/2038 12:00:00 AM	3/1/2038 12:00:00 AM	\$ 64.52	\$ 0.32	\$ 64.84	\$ 64.71
3/1/2038 12:00:00 AM	4/1/2038 12:00:00 AM	\$ 53.16	\$ 0.32	\$ 53.48	\$ 53.35
4/1/2038 12:00:00 AM	5/1/2038 12:00:00 AM	\$ 48.31	\$ 0.32	\$ 48.64	\$ 48.50
5/1/2038 12:00:00 AM	6/1/2038 12:00:00 AM	\$ 49.99	\$ 0.32	\$ 50.32	\$ 50.18
6/1/2038 12:00:00 AM	7/1/2038 12:00:00 AM	\$ 49.60	\$ 0.32	\$ 49.92	\$ 49.79
7/1/2038 12:00:00 AM	8/1/2038 12:00:00 AM	\$ 62.64	\$ 0.32	\$ 62.97	\$ 62.83
8/1/2038 12:00:00 AM	9/1/2038 12:00:00 AM	\$ 56.91	\$ 0.32	\$ 57.23	\$ 57.10
9/1/2038 12:00:00 AM	10/1/2038 12:00:00 AM	\$ 47.92	\$ 0.32	\$ 48.24	\$ 48.11
10/1/2038 12:00:00 AM	11/1/2038 12:00:00 AM	\$ 48.22	\$ 0.32	\$ 48.54	\$ 48.41
11/1/2038 12:00:00 AM	12/1/2038 12:00:00 AM	\$ 48.02	\$ 0.32	\$ 48.34	\$ 48.21
12/1/2038 12:00:00 AM	1/1/2039 12:00:00 AM	\$ 49.01	\$ 0.32	\$ 49.33	\$ 49.20
1/1/2039 12:00:00 AM	2/1/2039 12:00:00 AM	\$ 70.84	\$ 0.32	\$ 71.17	\$ 71.03
2/1/2039 12:00:00 AM	3/1/2039 12:00:00 AM	\$ 65.99	\$ 0.32	\$ 66.32	\$ 66.18
3/1/2039 12:00:00 AM	4/1/2039 12:00:00 AM	\$ 54.37	\$ 0.32	\$ 54.69	\$ 54.56
4/1/2039 12:00:00 AM	5/1/2039 12:00:00 AM	\$ 49.42	\$ 0.32	\$ 49.74	\$ 49.61
5/1/2039 12:00:00 AM	6/1/2039 12:00:00 AM	\$ 51.14	\$ 0.32	\$ 51.46	\$ 51.33
6/1/2039 12:00:00 AM	7/1/2039 12:00:00 AM	\$ 50.73	\$ 0.32	\$ 51.06	\$ 50.92



7/1/2039 12:00:00 AM	8/1/2039 12:00:00 AM	\$ 64.07	\$ 0.32	\$ 64.40	\$ 64.26
8/1/2039 12:00:00 AM	9/1/2039 12:00:00 AM	\$ 58.21	\$ 0.32	\$ 58.53	\$ 58.40
9/1/2039 12:00:00 AM	10/1/2039 12:00:00 AM	\$ 49.01	\$ 0.32	\$ 49.34	\$ 49.20
10/1/2039 12:00:00 AM	11/1/2039 12:00:00 AM	\$ 49.32	\$ 0.32	\$ 49.64	\$ 49.51
11/1/2039 12:00:00 AM	12/1/2039 12:00:00 AM	\$ 49.11	\$ 0.32	\$ 49.44	\$ 49.30
12/1/2039 12:00:00 AM	1/1/2040 12:00:00 AM	\$ 50.13	\$ 0.32	\$ 50.45	\$ 50.32
1/1/2040 12:00:00 AM	2/1/2040 12:00:00 AM	\$ 71.44	\$ 0.32	\$ 71.77	\$ 71.63
2/1/2040 12:00:00 AM	3/1/2040 12:00:00 AM	\$ 66.55	\$ 0.32	\$ 66.88	\$ 66.74
3/1/2040 12:00:00 AM	4/1/2040 12:00:00 AM	\$ 54.83	\$ 0.32	\$ 55.16	\$ 55.02
4/1/2040 12:00:00 AM	5/1/2040 12:00:00 AM	\$ 49.84	\$ 0.32	\$ 50.16	\$ 50.03
5/1/2040 12:00:00 AM	6/1/2040 12:00:00 AM	\$ 51.57	\$ 0.32	\$ 51.89	\$ 51.76
6/1/2040 12:00:00 AM	7/1/2040 12:00:00 AM	\$ 51.16	\$ 0.32	\$ 51.49	\$ 51.35
7/1/2040 12:00:00 AM	8/1/2040 12:00:00 AM	\$ 64.62	\$ 0.32	\$ 64.94	\$ 64.81
8/1/2040 12:00:00 AM	9/1/2040 12:00:00 AM	\$ 58.70	\$ 0.32	\$ 59.03	\$ 58.89
9/1/2040 12:00:00 AM	10/1/2040 12:00:00 AM	\$ 49.43	\$ 0.32	\$ 49.75	\$ 49.62
10/1/2040 12:00:00 AM	11/1/2040 12:00:00 AM	\$ 49.74	\$ 0.32	\$ 50.06	\$ 49.93
11/1/2040 12:00:00 AM	12/1/2040 12:00:00 AM	\$ 49.53	\$ 0.32	\$ 49.86	\$ 49.72
12/1/2040 12:00:00 AM	1/1/2041 12:00:00 AM	\$ 50.55	\$ 0.32	\$ 50.88	\$ 50.74







Big Stone	Coyote	Huron 1	Huron 2	Neal 4	Oak Tree	Titan	Load
\$ 31.75	\$ 30.99	\$ 31.28	\$ 31.28	\$ 31.76	\$ 31.76	\$ 0.16	\$ 32.05
\$ 31.80	\$ 31.04	\$ 31.33	\$ 31.33	\$ 31.81	\$ 31.81	\$ 0.17	\$ 32.10
\$ 30.30	\$ 29.54	\$ 29.83	\$ 29.83	\$ 30.31	\$ 30.31	\$ 0.17	\$ 30.60
\$ 28.05	\$ 27.29	\$ 27.58	\$ 27.58	\$ 28.06	\$ 28.06	\$ 0.17	\$ 28.35
\$ 27.75	\$ 26.99	\$ 27.28	\$ 27.28	\$ 27.76	\$ 27.76	\$ 0.18	\$ 28.05
\$ 26.75	\$ 25.99	\$ 26.28	\$ 26.28	\$ 26.76	\$ 26.76	\$ 0.20	\$ 27.05
\$ 36.50	\$ 35.74	\$ 36.03	\$ 36.03	\$ 36.51	\$ 36.51	\$ 0.19	\$ 36.80
\$ 33.00	\$ 32.24	\$ 32.53	\$ 32.53	\$ 33.01	\$ 33.01	\$ 0.19	\$ 33.30
\$ 29.10	\$ 28.34	\$ 28.63	\$ 28.63	\$ 29.11	\$ 29.11	\$ 0.18	\$ 29.40
\$ 24.15	\$ 23.39	\$ 23.68	\$ 23.68	\$ 24.16	\$ 24.16	\$ 0.16	\$ 24.45
\$ 24.10	\$ 23.34	\$ 23.63	\$ 23.63	\$ 24.11	\$ 24.11	\$ 0.18	\$ 24.40
\$ 26.70	\$ 25.94	\$ 26.23	\$ 26.23	\$ 26.71	\$ 26.71	\$ 0.18	\$ 27.00
\$ 35.35	\$ 34.59	\$ 34.88	\$ 34.88	\$ 35.36	\$ 35.36	\$ 0.18	\$ 35.65
\$ 32.95	\$ 32.19	\$ 32.48	\$ 32.48	\$ 32.96	\$ 32.96	\$ 0.16	\$ 33.25
\$ 27.20	\$ 26.44	\$ 26.73	\$ 26.73	\$ 27.21	\$ 27.21	\$ 0.15	\$ 27.50
\$ 24.75	\$ 23.99	\$ 24.28	\$ 24.28	\$ 24.76	\$ 24.76	\$ 0.15	\$ 25.05
\$ 25.60	\$ 24.84	\$ 25.13	\$ 25.13	\$ 25.61	\$ 25.61	\$ 0.15	\$ 25.90
\$ 25.40	\$ 24.64	\$ 24.93	\$ 24.93	\$ 25.41	\$ 25.41	\$ 0.15	\$ 25.70
\$ 32.00	\$ 31.24	\$ 31.53	\$ 31.53	\$ 32.01	\$ 32.01	\$ 0.15	\$ 32.30
\$ 29.10	\$ 28.34	\$ 28.63	\$ 28.63	\$ 29.11	\$ 29.11	\$ 0.15	\$ 29.40
\$ 24.55	\$ 23.79	\$ 24.08	\$ 24.08	\$ 24.56	\$ 24.56	\$ 0.15	\$ 24.85
\$ 24.70	\$ 23.94	\$ 24.23	\$ 24.23	\$ 24.71	\$ 24.71	\$ 0.15	\$ 25.00
\$ 24.60	\$ 23.84	\$ 24.13	\$ 24.13	\$ 24.61	\$ 24.61	\$ 0.15	\$ 24.90
\$ 25.10	\$ 24.34	\$ 24.63	\$ 24.63	\$ 25.11	\$ 25.11	\$ 0.15	\$ 25.40
\$ 38.63	\$ 37.87	\$ 38.16	\$ 38.16	\$ 38.64	\$ 38.64	\$ 0.15	\$ 38.93
\$ 36.00	\$ 35.25	\$ 35.54	\$ 35.54	\$ 36.02	\$ 36.02	\$ 0.15	\$ 36.30
\$ 29.71	\$ 28.96	\$ 29.25	\$ 29.25	\$ 29.73	\$ 29.73	\$ 0.15	\$ 30.01
\$ 27.03	\$ 26.28	\$ 26.57	\$ 26.57	\$ 27.05	\$ 27.05	\$ 0.15	\$ 27.33
\$ 27.96	\$ 27.21	\$ 27.50	\$ 27.50	\$ 27.98	\$ 27.98	\$ 0.15	\$ 28.26
\$ 27.74	\$ 26.99	\$ 27.28	\$ 27.28	\$ 27.76	\$ 27.76	\$ 0.15	\$ 28.04
\$ 34.96	\$ 34.21	\$ 34.50	\$ 34.50	\$ 34.98	\$ 34.98	\$ 0.15	\$ 35.26
\$ 31.79	\$ 31.04	\$ 31.33	\$ 31.33	\$ 31.81	\$ 31.81	\$ 0.15	\$ 32.09
\$ 26.81	\$ 26.06	\$ 26.35	\$ 26.35	\$ 26.83	\$ 26.83	\$ 0.15	\$ 27.11
\$ 26.98	\$ 26.23	\$ 26.52	\$ 26.52	\$ 27.00	\$ 27.00	\$ 0.15	\$ 27.28
\$ 26.87	\$ 26.12	\$ 26.41	\$ 26.41	\$ 26.89	\$ 26.89	\$ 0.15	\$ 27.17



\$ 27.42	\$ 26.66	\$ 26.95	\$ 26.95	\$ 27.43	\$ 27.43	\$ 0.15	\$ 27.72
\$ 42.07	\$ 41.32	\$ 41.61	\$ 41.61	\$ 42.09	\$ 42.09	\$ 0.15	\$ 42.37
\$ 39.21	\$ 38.46	\$ 38.75	\$ 38.75	\$ 39.23	\$ 39.23	\$ 0.15	\$ 39.51
\$ 32.35	\$ 31.60	\$ 31.89	\$ 31.89	\$ 32.37	\$ 32.37	\$ 0.15	\$ 32.65
\$ 29.44	\$ 28.68	\$ 28.97	\$ 28.97	\$ 29.45	\$ 29.45	\$ 0.15	\$ 29.74
\$ 30.45	\$ 29.70	\$ 29.99	\$ 29.99	\$ 30.47	\$ 30.47	\$ 0.15	\$ 30.75
\$ 30.21	\$ 29.46	\$ 29.75	\$ 29.75	\$ 30.23	\$ 30.23	\$ 0.15	\$ 30.51
\$ 38.08	\$ 37.32	\$ 37.61	\$ 37.61	\$ 38.09	\$ 38.09	\$ 0.15	\$ 38.38
\$ 34.62	\$ 33.87	\$ 34.16	\$ 34.16	\$ 34.64	\$ 34.64	\$ 0.15	\$ 34.92
\$ 29.20	\$ 28.44	\$ 28.73	\$ 28.73	\$ 29.21	\$ 29.21	\$ 0.15	\$ 29.50
\$ 29.38	\$ 28.62	\$ 28.91	\$ 28.91	\$ 29.39	\$ 29.39	\$ 0.15	\$ 29.68
\$ 29.26	\$ 28.50	\$ 28.79	\$ 28.79	\$ 29.27	\$ 29.27	\$ 0.15	\$ 29.56
\$ 29.85	\$ 29.10	\$ 29.39	\$ 29.39	\$ 29.87	\$ 29.87	\$ 0.15	\$ 30.15
\$ 44.13	\$ 43.38	\$ 43.67	\$ 43.67	\$ 44.15	\$ 44.15	\$ 0.15	\$ 44.43
\$ 41.13	\$ 40.38	\$ 40.67	\$ 40.67	\$ 41.15	\$ 41.15	\$ 0.15	\$ 41.43
\$ 33.94	\$ 33.19	\$ 33.48	\$ 33.48	\$ 33.96	\$ 33.96	\$ 0.15	\$ 34.24
\$ 30.88	\$ 30.12	\$ 30.41	\$ 30.41	\$ 30.89	\$ 30.89	\$ 0.15	\$ 31.18
\$ 31.94	\$ 31.19	\$ 31.48	\$ 31.48	\$ 31.96	\$ 31.96	\$ 0.15	\$ 32.24
\$ 31.69	\$ 30.94	\$ 31.23	\$ 31.23	\$ 31.71	\$ 31.71	\$ 0.15	\$ 31.99
\$ 39.94	\$ 39.19	\$ 39.48	\$ 39.48	\$ 39.96	\$ 39.96	\$ 0.15	\$ 40.24
\$ 36.32	\$ 35.56	\$ 35.85	\$ 35.85	\$ 36.33	\$ 36.33	\$ 0.15	\$ 36.62
\$ 30.63	\$ 29.87	\$ 30.16	\$ 30.16	\$ 30.64	\$ 30.64	\$ 0.15	\$ 30.93
\$ 30.81	\$ 30.06	\$ 30.35	\$ 30.35	\$ 30.83	\$ 30.83	\$ 0.15	\$ 31.11
\$ 30.69	\$ 29.94	\$ 30.23	\$ 30.23	\$ 30.71	\$ 30.71	\$ 0.15	\$ 30.99
\$ 31.31	\$ 30.56	\$ 30.85	\$ 30.85	\$ 31.33	\$ 31.33	\$ 0.15	\$ 31.61
\$ 45.69	\$ 44.94	\$ 45.23	\$ 45.23	\$ 45.71	\$ 45.71	\$ 0.15	\$ 45.99
\$ 42.58	\$ 41.83	\$ 42.12	\$ 42.12	\$ 42.60	\$ 42.60	\$ 0.15	\$ 42.88
\$ 35.14	\$ 34.38	\$ 34.67	\$ 34.67	\$ 35.15	\$ 35.15	\$ 0.15	\$ 35.44
\$ 31.96	\$ 31.21	\$ 31.50	\$ 31.50	\$ 31.98	\$ 31.98	\$ 0.15	\$ 32.26
\$ 33.06	\$ 32.31	\$ 32.60	\$ 32.60	\$ 33.08	\$ 33.08	\$ 0.15	\$ 33.36
\$ 32.80	\$ 32.05	\$ 32.34	\$ 32.34	\$ 32.82	\$ 32.82	\$ 0.15	\$ 33.10
\$ 41.35	\$ 40.60	\$ 40.89	\$ 40.89	\$ 41.37	\$ 41.37	\$ 0.15	\$ 41.65
\$ 37.60	\$ 36.84	\$ 37.13	\$ 37.13	\$ 37.61	\$ 37.61	\$ 0.15	\$ 37.90
\$ 31.70	\$ 30.95	\$ 31.24	\$ 31.24	\$ 31.72	\$ 31.72	\$ 0.15	\$ 32.00
\$ 31.90	\$ 31.15	\$ 31.44	\$ 31.44	\$ 31.92	\$ 31.92	\$ 0.15	\$ 32.20
\$ 31.77	\$ 31.02	\$ 31.31	\$ 31.31	\$ 31.79	\$ 31.79	\$ 0.15	\$ 32.07
\$ 32.42	\$ 31.66	\$ 31.95	\$ 31.95	\$ 32.43	\$ 32.43	\$ 0.15	\$ 32.72
\$ 48.51	\$ 47.75	\$ 48.04	\$ 48.04	\$ 48.52	\$ 48.52	\$ 0.15	\$ 48.81
\$ 45.21	\$ 44.45	\$ 44.74	\$ 44.74	\$ 45.22	\$ 45.22	\$ 0.15	\$ 45.51
\$ 37.30	\$ 36.54	\$ 36.83	\$ 36.83	\$ 37.31	\$ 37.31	\$ 0.15	\$ 37.60
\$ 33.93	\$ 33.17	\$ 33.46	\$ 33.46	\$ 33.94	\$ 33.94	\$ 0.15	\$ 34.23
\$ 35.10	\$ 34.34	\$ 34.63	\$ 34.63	\$ 35.11	\$ 35.11	\$ 0.15	\$ 35.40
\$ 34.82	\$ 34.07	\$ 34.36	\$ 34.36	\$ 34.84	\$ 34.84	\$ 0.15	\$ 35.12
\$ 43.90	\$ 43.15	\$ 43.44	\$ 43.44	\$ 43.92	\$ 43.92	\$ 0.15	\$ 44.20
\$ 39.91	\$ 39.16	\$ 39.45	\$ 39.45	\$ 39.93	\$ 39.93	\$ 0.15	\$ 40.21
\$ 33.65	\$ 32.90	\$ 33.19	\$ 33.19	\$ 33.67	\$ 33.67	\$ 0.15	\$ 33.95
\$ 33.86	\$ 33.10	\$ 33.39	\$ 33.39	\$ 33.87	\$ 33.87	\$ 0.15	\$ 34.16



\$ 33.72	\$ 32.97	\$ 33.26	\$ 33.26	\$ 33.74	\$ 33.74	\$ 0.15	\$ 34.02
\$ 34.41	\$ 33.65	\$ 33.94	\$ 33.94	\$ 34.42	\$ 34.42	\$ 0.15	\$ 34.71
\$ 50.72	\$ 49.97	\$ 50.26	\$ 50.26	\$ 50.74	\$ 50.74	\$ 0.15	\$ 51.02
\$ 47.27	\$ 46.52	\$ 46.81	\$ 46.81	\$ 47.29	\$ 47.29	\$ 0.15	\$ 47.57
\$ 39.00	\$ 38.24	\$ 38.53	\$ 38.53	\$ 39.01	\$ 39.01	\$ 0.15	\$ 39.30
\$ 35.47	\$ 34.72	\$ 35.01	\$ 35.01	\$ 35.49	\$ 35.49	\$ 0.15	\$ 35.77
\$ 36.70	\$ 35.94	\$ 36.23	\$ 36.23	\$ 36.71	\$ 36.71	\$ 0.15	\$ 37.00
\$ 36.41	\$ 35.66	\$ 35.95	\$ 35.95	\$ 36.43	\$ 36.43	\$ 0.15	\$ 36.71
\$ 45.90	\$ 45.15	\$ 45.44	\$ 45.44	\$ 45.92	\$ 45.92	\$ 0.15	\$ 46.20
\$ 41.73	\$ 40.98	\$ 41.27	\$ 41.27	\$ 41.75	\$ 41.75	\$ 0.15	\$ 42.03
\$ 35.18	\$ 34.43	\$ 34.72	\$ 34.72	\$ 35.20	\$ 35.20	\$ 0.15	\$ 35.48
\$ 35.40	\$ 34.65	\$ 34.94	\$ 34.94	\$ 35.42	\$ 35.42	\$ 0.15	\$ 35.70
\$ 35.26	\$ 34.50	\$ 34.79	\$ 34.79	\$ 35.27	\$ 35.27	\$ 0.15	\$ 35.56
\$ 35.98	\$ 35.22	\$ 35.51	\$ 35.51	\$ 35.99	\$ 35.99	\$ 0.15	\$ 36.28
\$ 53.14	\$ 52.39	\$ 52.68	\$ 52.68	\$ 53.16	\$ 53.16	\$ 0.15	\$ 53.44
\$ 49.52	\$ 48.77	\$ 49.06	\$ 49.06	\$ 49.54	\$ 49.54	\$ 0.15	\$ 49.82
\$ 40.85	\$ 40.10	\$ 40.39	\$ 40.39	\$ 40.87	\$ 40.87	\$ 0.15	\$ 41.15
\$ 37.16	\$ 36.41	\$ 36.70	\$ 36.70	\$ 37.18	\$ 37.18	\$ 0.15	\$ 37.46
\$ 38.44	\$ 37.69	\$ 37.98	\$ 37.98	\$ 38.46	\$ 38.46	\$ 0.15	\$ 38.74
\$ 38.14	\$ 37.39	\$ 37.68	\$ 37.68	\$ 38.16	\$ 38.16	\$ 0.15	\$ 38.44
\$ 48.09	\$ 47.34	\$ 47.63	\$ 47.63	\$ 48.11	\$ 48.11	\$ 0.15	\$ 48.39
\$ 43.72	\$ 42.97	\$ 43.26	\$ 43.26	\$ 43.74	\$ 43.74	\$ 0.15	\$ 44.02
\$ 36.86	\$ 36.11	\$ 36.40	\$ 36.40	\$ 36.88	\$ 36.88	\$ 0.15	\$ 37.16
\$ 37.08	\$ 36.33	\$ 36.62	\$ 36.62	\$ 37.10	\$ 37.10	\$ 0.15	\$ 37.38
\$ 36.93	\$ 36.18	\$ 36.47	\$ 36.47	\$ 36.95	\$ 36.95	\$ 0.15	\$ 37.23
\$ 37.69	\$ 36.94	\$ 37.23	\$ 37.23	\$ 37.71	\$ 37.71	\$ 0.15	\$ 37.99
\$ 54.15	\$ 53.40	\$ 53.69	\$ 53.69	\$ 54.17	\$ 54.17	\$ 0.15	\$ 54.45
\$ 50.46	\$ 49.71	\$ 50.00	\$ 50.00	\$ 50.48	\$ 50.48	\$ 0.15	\$ 50.76
\$ 41.63	\$ 40.88	\$ 41.17	\$ 41.17	\$ 41.65	\$ 41.65	\$ 0.15	\$ 41.93
\$ 37.86	\$ 37.11	\$ 37.40	\$ 37.40	\$ 37.88	\$ 37.88	\$ 0.15	\$ 38.16
\$ 39.17	\$ 38.42	\$ 38.71	\$ 38.71	\$ 39.19	\$ 39.19	\$ 0.15	\$ 39.47
\$ 38.86	\$ 38.11	\$ 38.40	\$ 38.40	\$ 38.88	\$ 38.88	\$ 0.15	\$ 39.16
\$ 49.00	\$ 48.25	\$ 48.54	\$ 48.54	\$ 49.02	\$ 49.02	\$ 0.15	\$ 49.30
\$ 44.55	\$ 43.79	\$ 44.08	\$ 44.08	\$ 44.56	\$ 44.56	\$ 0.15	\$ 44.85
\$ 37.56	\$ 36.80	\$ 37.09	\$ 37.09	\$ 37.57	\$ 37.57	\$ 0.15	\$ 37.86
\$ 37.79	\$ 37.03	\$ 37.32	\$ 37.32	\$ 37.80	\$ 37.80	\$ 0.15	\$ 38.09
\$ 37.63	\$ 36.88	\$ 37.17	\$ 37.17	\$ 37.65	\$ 37.65	\$ 0.15	\$ 37.93
\$ 38.40	\$ 37.65	\$ 37.94	\$ 37.94	\$ 38.42	\$ 38.42	\$ 0.15	\$ 38.70
\$ 54.15	\$ 53.40	\$ 53.69	\$ 53.69	\$ 54.17	\$ 54.17	\$ 0.15	\$ 54.45
\$ 50.46	\$ 49.71	\$ 50.00	\$ 50.00	\$ 50.48	\$ 50.48	\$ 0.15	\$ 50.76
\$ 41.63	\$ 40.88	\$ 41.17	\$ 41.17	\$ 41.65	\$ 41.65	\$ 0.15	\$ 41.93
\$ 37.86	\$ 37.11	\$ 37.40	\$ 37.40	\$ 37.88	\$ 37.88	\$ 0.15	\$ 38.16
\$ 39.17	\$ 38.42	\$ 38.71	\$ 38.71	\$ 39.19	\$ 39.19	\$ 0.15	\$ 39.47
\$ 38.86	\$ 38.11	\$ 38.40	\$ 38.40	\$ 38.88	\$ 38.88	\$ 0.15	\$ 39.16
\$ 49.00	\$ 48.25	\$ 48.54	\$ 48.54	\$ 49.02	\$ 49.02	\$ 0.15	\$ 49.30
\$ 44.55	\$ 43.80	\$ 44.09	\$ 44.09	\$ 44.57	\$ 44.57	\$ 0.15	\$ 44.85
\$ 37.56	\$ 36.80	\$ 37.09	\$ 37.09	\$ 37.57	\$ 37.57	\$ 0.15	\$ 37.86



\$ 37.79	\$ 37.04	\$ 37.33	\$ 37.33	\$ 37.81	\$ 37.81	\$ 0.15	\$ 38.09
\$ 37.63	\$ 36.88	\$ 37.17	\$ 37.17	\$ 37.65	\$ 37.65	\$ 0.15	\$ 37.93
\$ 38.40	\$ 37.65	\$ 37.94	\$ 37.94	\$ 38.42	\$ 38.42	\$ 0.15	\$ 38.70
\$ 54.72	\$ 53.97	\$ 54.26	\$ 54.26	\$ 54.74	\$ 54.74	\$ 0.15	\$ 55.02
\$ 50.99	\$ 50.24	\$ 50.53	\$ 50.53	\$ 51.01	\$ 51.01	\$ 0.15	\$ 51.29
\$ 42.07	\$ 41.31	\$ 41.60	\$ 41.60	\$ 42.08	\$ 42.08	\$ 0.15	\$ 42.37
\$ 38.26	\$ 37.51	\$ 37.80	\$ 37.80	\$ 38.28	\$ 38.28	\$ 0.15	\$ 38.56
\$ 39.58	\$ 38.83	\$ 39.12	\$ 39.12	\$ 39.60	\$ 39.60	\$ 0.15	\$ 39.88
\$ 39.27	\$ 38.52	\$ 38.81	\$ 38.81	\$ 39.29	\$ 39.29	\$ 0.15	\$ 39.57
\$ 49.52	\$ 48.77	\$ 49.06	\$ 49.06	\$ 49.54	\$ 49.54	\$ 0.15	\$ 49.82
\$ 45.02	\$ 44.26	\$ 44.55	\$ 44.55	\$ 45.03	\$ 45.03	\$ 0.15	\$ 45.32
\$ 37.95	\$ 37.20	\$ 37.49	\$ 37.49	\$ 37.97	\$ 37.97	\$ 0.15	\$ 38.25
\$ 38.18	\$ 37.43	\$ 37.72	\$ 37.72	\$ 38.20	\$ 38.20	\$ 0.15	\$ 38.48
\$ 38.03	\$ 37.28	\$ 37.57	\$ 37.57	\$ 38.05	\$ 38.05	\$ 0.15	\$ 38.33
\$ 38.80	\$ 38.05	\$ 38.34	\$ 38.34	\$ 38.82	\$ 38.82	\$ 0.15	\$ 39.10
\$ 55.32	\$ 54.56	\$ 54.85	\$ 54.85	\$ 55.33	\$ 55.33	\$ 0.15	\$ 55.62
\$ 51.55	\$ 50.80	\$ 51.09	\$ 51.09	\$ 51.57	\$ 51.57	\$ 0.15	\$ 51.85
\$ 42.52	\$ 41.77	\$ 42.06	\$ 42.06	\$ 42.54	\$ 42.54	\$ 0.15	\$ 42.82
\$ 38.68	\$ 37.92	\$ 38.21	\$ 38.21	\$ 38.69	\$ 38.69	\$ 0.15	\$ 38.98
\$ 40.01	\$ 39.26	\$ 39.55	\$ 39.55	\$ 40.03	\$ 40.03	\$ 0.15	\$ 40.31
\$ 39.70	\$ 38.94	\$ 39.23	\$ 39.23	\$ 39.71	\$ 39.71	\$ 0.15	\$ 40.00
\$ 50.06	\$ 49.31	\$ 49.60	\$ 49.60	\$ 50.08	\$ 50.08	\$ 0.15	\$ 50.36
\$ 45.51	\$ 44.75	\$ 45.04	\$ 45.04	\$ 45.52	\$ 45.52	\$ 0.15	\$ 45.81
\$ 38.36	\$ 37.61	\$ 37.90	\$ 37.90	\$ 38.38	\$ 38.38	\$ 0.15	\$ 38.66
\$ 38.60	\$ 37.85	\$ 38.14	\$ 38.14	\$ 38.62	\$ 38.62	\$ 0.15	\$ 38.90
\$ 38.44	\$ 37.69	\$ 37.98	\$ 37.98	\$ 38.46	\$ 38.46	\$ 0.15	\$ 38.74
\$ 39.23	\$ 38.47	\$ 38.76	\$ 38.76	\$ 39.24	\$ 39.24	\$ 0.15	\$ 39.53
\$ 56.25	\$ 55.50	\$ 55.79	\$ 55.79	\$ 56.27	\$ 56.27	\$ 0.15	\$ 56.55
\$ 52.42	\$ 51.66	\$ 51.95	\$ 51.95	\$ 52.43	\$ 52.43	\$ 0.15	\$ 52.72
\$ 43.24	\$ 42.49	\$ 42.78	\$ 42.78	\$ 43.26	\$ 43.26	\$ 0.15	\$ 43.54
\$ 39.33	\$ 38.57	\$ 38.86	\$ 38.86	\$ 39.34	\$ 39.34	\$ 0.15	\$ 39.63
\$ 40.68	\$ 39.93	\$ 40.22	\$ 40.22	\$ 40.70	\$ 40.70	\$ 0.15	\$ 40.98
\$ 40.36	\$ 39.61	\$ 39.90	\$ 39.90	\$ 40.38	\$ 40.38	\$ 0.15	\$ 40.66
\$ 50.90	\$ 50.15	\$ 50.44	\$ 50.44	\$ 50.92	\$ 50.92	\$ 0.15	\$ 51.20
\$ 46.27	\$ 45.52	\$ 45.81	\$ 45.81	\$ 46.29	\$ 46.29	\$ 0.15	\$ 46.57
\$ 39.01	\$ 38.26	\$ 38.55	\$ 38.55	\$ 39.03	\$ 39.03	\$ 0.15	\$ 39.31
\$ 39.25	\$ 38.49	\$ 38.78	\$ 38.78	\$ 39.26	\$ 39.26	\$ 0.15	\$ 39.55
\$ 39.09	\$ 38.33	\$ 38.62	\$ 38.62	\$ 39.10	\$ 39.10	\$ 0.15	\$ 39.39
\$ 39.89	\$ 39.13	\$ 39.42	\$ 39.42	\$ 39.90	\$ 39.90	\$ 0.15	\$ 40.19
\$ 57.70	\$ 56.94	\$ 57.23	\$ 57.23	\$ 57.71	\$ 57.71	\$ 0.15	\$ 58.00
\$ 53.77	\$ 53.01	\$ 53.30	\$ 53.30	\$ 53.78	\$ 53.78	\$ 0.15	\$ 54.07
\$ 44.35	\$ 43.60	\$ 43.89	\$ 43.89	\$ 44.37	\$ 44.37	\$ 0.15	\$ 44.65
\$ 40.34	\$ 39.58	\$ 39.87	\$ 39.87	\$ 40.35	\$ 40.35	\$ 0.15	\$ 40.64
\$ 41.73	\$ 40.98	\$ 41.27	\$ 41.27	\$ 41.75	\$ 41.75	\$ 0.15	\$ 42.03
\$ 41.40	\$ 40.65	\$ 40.94	\$ 40.94	\$ 41.42	\$ 41.42	\$ 0.15	\$ 41.70
\$ 52.21	\$ 51.46	\$ 51.75	\$ 51.75	\$ 52.23	\$ 52.23	\$ 0.15	\$ 52.51
\$ 47.46	\$ 46.71	\$ 47.00	\$ 47.00	\$ 47.48	\$ 47.48	\$ 0.15	\$ 47.76



\$ 40.01	\$ 39.26	\$ 39.55	\$ 39.55	\$ 40.03	\$ 40.03	\$ 0.15	\$ 40.31
\$ 40.25	\$ 39.50	\$ 39.79	\$ 39.79	\$ 40.27	\$ 40.27	\$ 0.15	\$ 40.55
\$ 40.09	\$ 39.34	\$ 39.63	\$ 39.63	\$ 40.11	\$ 40.11	\$ 0.15	\$ 40.39
\$ 40.91	\$ 40.16	\$ 40.45	\$ 40.45	\$ 40.93	\$ 40.93	\$ 0.15	\$ 41.21
\$ 60.29	\$ 59.54	\$ 59.83	\$ 59.83	\$ 60.31	\$ 60.31	\$ 0.15	\$ 60.59
\$ 56.18	\$ 55.43	\$ 55.72	\$ 55.72	\$ 56.20	\$ 56.20	\$ 0.15	\$ 56.48
\$ 46.34	\$ 45.59	\$ 45.88	\$ 45.88	\$ 46.36	\$ 46.36	\$ 0.15	\$ 46.64
\$ 42.14	\$ 41.39	\$ 41.68	\$ 41.68	\$ 42.16	\$ 42.16	\$ 0.15	\$ 42.44
\$ 43.60	\$ 42.85	\$ 43.14	\$ 43.14	\$ 43.62	\$ 43.62	\$ 0.15	\$ 43.90
\$ 43.26	\$ 42.51	\$ 42.80	\$ 42.80	\$ 43.28	\$ 43.28	\$ 0.15	\$ 43.56
\$ 54.55	\$ 53.80	\$ 54.09	\$ 54.09	\$ 54.57	\$ 54.57	\$ 0.15	\$ 54.85
\$ 49.59	\$ 48.84	\$ 49.13	\$ 49.13	\$ 49.61	\$ 49.61	\$ 0.15	\$ 49.89
\$ 41.80	\$ 41.05	\$ 41.34	\$ 41.34	\$ 41.82	\$ 41.82	\$ 0.15	\$ 42.10
\$ 42.06	\$ 41.31	\$ 41.60	\$ 41.60	\$ 42.08	\$ 42.08	\$ 0.15	\$ 42.36
\$ 41.89	\$ 41.14	\$ 41.43	\$ 41.43	\$ 41.91	\$ 41.91	\$ 0.15	\$ 42.19
\$ 42.74	\$ 41.99	\$ 42.28	\$ 42.28	\$ 42.76	\$ 42.76	\$ 0.15	\$ 43.04
\$ 62.20	\$ 61.45	\$ 61.74	\$ 61.74	\$ 62.22	\$ 62.22	\$ 0.15	\$ 62.50
\$ 57.96	\$ 57.21	\$ 57.50	\$ 57.50	\$ 57.98	\$ 57.98	\$ 0.15	\$ 58.26
\$ 47.80	\$ 47.05	\$ 47.34	\$ 47.34	\$ 47.82	\$ 47.82	\$ 0.15	\$ 48.10
\$ 43.48	\$ 42.72	\$ 43.01	\$ 43.01	\$ 43.49	\$ 43.49	\$ 0.15	\$ 43.78
\$ 44.98	\$ 44.23	\$ 44.52	\$ 44.52	\$ 45.00	\$ 45.00	\$ 0.15	\$ 45.28
\$ 44.63	\$ 43.87	\$ 44.16	\$ 44.16	\$ 44.64	\$ 44.64	\$ 0.15	\$ 44.93
\$ 56.28	\$ 55.53	\$ 55.82	\$ 55.82	\$ 56.30	\$ 56.30	\$ 0.15	\$ 56.58
\$ 51.16	\$ 50.41	\$ 50.70	\$ 50.70	\$ 51.18	\$ 51.18	\$ 0.15	\$ 51.46
\$ 43.12	\$ 42.37	\$ 42.66	\$ 42.66	\$ 43.14	\$ 43.14	\$ 0.15	\$ 43.42
\$ 43.39	\$ 42.64	\$ 42.93	\$ 42.93	\$ 43.41	\$ 43.41	\$ 0.15	\$ 43.69
\$ 43.21	\$ 42.46	\$ 42.75	\$ 42.75	\$ 43.23	\$ 43.23	\$ 0.15	\$ 43.51
\$ 44.10	\$ 43.34	\$ 43.63	\$ 43.63	\$ 44.11	\$ 44.11	\$ 0.15	\$ 44.40
\$ 64.13	\$ 63.38	\$ 63.67	\$ 63.67	\$ 64.15	\$ 64.15	\$ 0.15	\$ 64.43
\$ 59.76	\$ 59.01	\$ 59.30	\$ 59.30	\$ 59.78	\$ 59.78	\$ 0.15	\$ 60.06
\$ 49.29	\$ 48.54	\$ 48.83	\$ 48.83	\$ 49.31	\$ 49.31	\$ 0.15	\$ 49.59
\$ 44.83	\$ 44.07	\$ 44.36	\$ 44.36	\$ 44.84	\$ 44.84	\$ 0.15	\$ 45.13
\$ 46.38	\$ 45.62	\$ 45.91	\$ 45.91	\$ 46.39	\$ 46.39	\$ 0.15	\$ 46.68
\$ 46.01	\$ 45.26	\$ 45.55	\$ 45.55	\$ 46.03	\$ 46.03	\$ 0.15	\$ 46.31
\$ 58.03	\$ 57.28	\$ 57.57	\$ 57.57	\$ 58.05	\$ 58.05	\$ 0.15	\$ 58.33
\$ 52.75	\$ 52.00	\$ 52.29	\$ 52.29	\$ 52.77	\$ 52.77	\$ 0.15	\$ 53.05
\$ 44.46	\$ 43.71	\$ 44.00	\$ 44.00	\$ 44.48	\$ 44.48	\$ 0.15	\$ 44.76
\$ 44.74	\$ 43.98	\$ 44.27	\$ 44.27	\$ 44.75	\$ 44.75	\$ 0.15	\$ 45.04
\$ 44.55	\$ 43.80	\$ 44.09	\$ 44.09	\$ 44.57	\$ 44.57	\$ 0.15	\$ 44.85
\$ 45.46	\$ 44.71	\$ 45.00	\$ 45.00	\$ 45.48	\$ 45.48	\$ 0.15	\$ 45.76
\$ 65.54	\$ 64.79	\$ 65.08	\$ 65.08	\$ 65.56	\$ 65.56	\$ 0.15	\$ 65.84
\$ 61.07	\$ 60.32	\$ 60.61	\$ 60.61	\$ 61.09	\$ 61.09	\$ 0.15	\$ 61.37
\$ 50.37	\$ 49.62	\$ 49.91	\$ 49.91	\$ 50.39	\$ 50.39	\$ 0.15	\$ 50.67
\$ 45.81	\$ 45.06	\$ 45.35	\$ 45.35	\$ 45.83	\$ 45.83	\$ 0.15	\$ 46.11
\$ 47.39	\$ 46.64	\$ 46.93	\$ 46.93	\$ 47.41	\$ 47.41	\$ 0.15	\$ 47.69
\$ 47.02	\$ 46.27	\$ 46.56	\$ 46.56	\$ 47.04	\$ 47.04	\$ 0.15	\$ 47.32
\$ 59.31	\$ 58.55	\$ 58.84	\$ 58.84	\$ 59.32	\$ 59.32	\$ 0.15	\$ 59.61

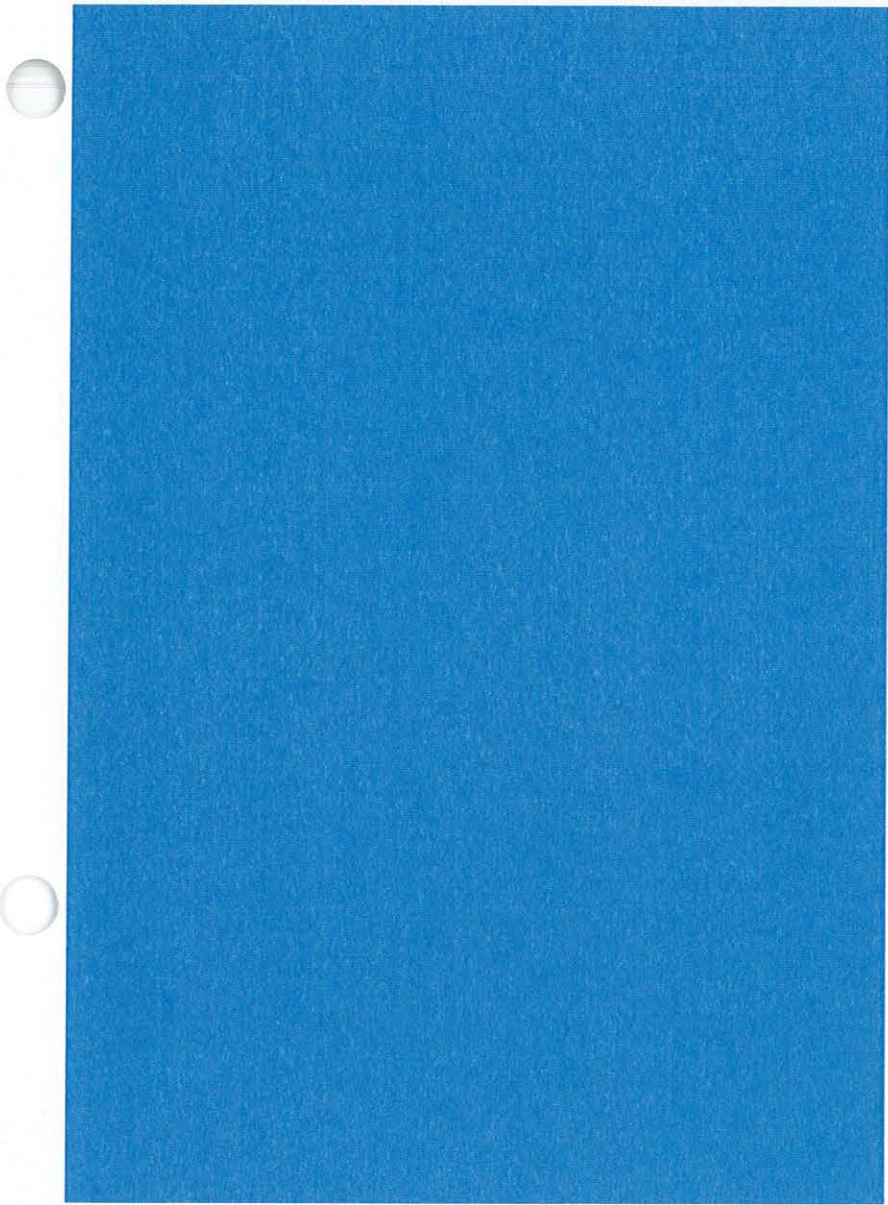


\$ 53.91	\$ 53.15	\$ 53.44	\$ 53.44	\$ 53.92	\$ 53.92	\$ 0.15	\$ 54.21
\$ 45.44	\$ 44.68	\$ 44.97	\$ 44.97	\$ 45.45	\$ 45.45	\$ 0.15	\$ 45.74
\$ 45.72	\$ 44.96	\$ 45.25	\$ 45.25	\$ 45.73	\$ 45.73	\$ 0.15	\$ 46.02
\$ 45.53	\$ 44.78	\$ 45.07	\$ 45.07	\$ 45.55	\$ 45.55	\$ 0.15	\$ 45.83
\$ 46.46	\$ 45.71	\$ 46.00	\$ 46.00	\$ 46.48	\$ 46.48	\$ 0.15	\$ 46.76
\$ 66.07	\$ 65.32	\$ 65.61	\$ 65.61	\$ 66.09	\$ 66.09	\$ 0.15	\$ 66.37
\$ 61.56	\$ 60.81	\$ 61.10	\$ 61.10	\$ 61.58	\$ 61.58	\$ 0.15	\$ 61.86
\$ 50.77	\$ 50.02	\$ 50.31	\$ 50.31	\$ 50.79	\$ 50.79	\$ 0.15	\$ 51.07
\$ 46.18	\$ 45.42	\$ 45.71	\$ 45.71	\$ 46.19	\$ 46.19	\$ 0.15	\$ 46.48
\$ 47.77	\$ 47.02	\$ 47.31	\$ 47.31	\$ 47.79	\$ 47.79	\$ 0.15	\$ 48.07
\$ 47.40	\$ 46.64	\$ 46.93	\$ 46.93	\$ 47.41	\$ 47.41	\$ 0.15	\$ 47.70
\$ 59.78	\$ 59.03	\$ 59.32	\$ 59.32	\$ 59.80	\$ 59.80	\$ 0.15	\$ 60.08
\$ 54.34	\$ 53.59	\$ 53.88	\$ 53.88	\$ 54.36	\$ 54.36	\$ 0.15	\$ 54.64
\$ 45.80	\$ 45.05	\$ 45.34	\$ 45.34	\$ 45.82	\$ 45.82	\$ 0.15	\$ 46.10
\$ 46.08	\$ 45.33	\$ 45.62	\$ 45.62	\$ 46.10	\$ 46.10	\$ 0.15	\$ 46.38
\$ 45.90	\$ 45.14	\$ 45.43	\$ 45.43	\$ 45.91	\$ 45.91	\$ 0.15	\$ 46.20
\$ 46.83	\$ 46.08	\$ 46.37	\$ 46.37	\$ 46.85	\$ 46.85	\$ 0.15	\$ 47.13
\$ 67.76	\$ 67.01	\$ 67.30	\$ 67.30	\$ 67.78	\$ 67.78	\$ 0.15	\$ 68.06
\$ 63.14	\$ 62.39	\$ 62.68	\$ 62.68	\$ 63.16	\$ 63.16	\$ 0.15	\$ 63.44
\$ 52.08	\$ 51.32	\$ 51.61	\$ 51.61	\$ 52.09	\$ 52.09	\$ 0.15	\$ 52.38
\$ 47.36	\$ 46.61	\$ 46.90	\$ 46.90	\$ 47.38	\$ 47.38	\$ 0.15	\$ 47.66
\$ 49.00	\$ 48.24	\$ 48.53	\$ 48.53	\$ 49.01	\$ 49.01	\$ 0.15	\$ 49.30
\$ 48.61	\$ 47.86	\$ 48.15	\$ 48.15	\$ 48.63	\$ 48.63	\$ 0.15	\$ 48.91
\$ 61.32	\$ 60.56	\$ 60.85	\$ 60.85	\$ 61.33	\$ 61.33	\$ 0.15	\$ 61.62
\$ 55.73	\$ 54.98	\$ 55.27	\$ 55.27	\$ 55.75	\$ 55.75	\$ 0.15	\$ 56.03
\$ 46.98	\$ 46.22	\$ 46.51	\$ 46.51	\$ 46.99	\$ 46.99	\$ 0.15	\$ 47.28
\$ 47.26	\$ 46.51	\$ 46.80	\$ 46.80	\$ 47.28	\$ 47.28	\$ 0.15	\$ 47.56
\$ 47.07	\$ 46.32	\$ 46.61	\$ 46.61	\$ 47.09	\$ 47.09	\$ 0.15	\$ 47.37
\$ 48.03	\$ 47.28	\$ 47.57	\$ 47.57	\$ 48.05	\$ 48.05	\$ 0.15	\$ 48.33
\$ 69.55	\$ 68.80	\$ 69.09	\$ 69.09	\$ 69.57	\$ 69.57	\$ 0.15	\$ 69.85
\$ 64.81	\$ 64.06	\$ 64.35	\$ 64.35	\$ 64.83	\$ 64.83	\$ 0.15	\$ 65.11
\$ 53.45	\$ 52.70	\$ 52.99	\$ 52.99	\$ 53.47	\$ 53.47	\$ 0.15	\$ 53.75
\$ 48.61	\$ 47.86	\$ 48.15	\$ 48.15	\$ 48.63	\$ 48.63	\$ 0.15	\$ 48.91
\$ 50.29	\$ 49.54	\$ 49.83	\$ 49.83	\$ 50.31	\$ 50.31	\$ 0.15	\$ 50.59
\$ 49.89	\$ 49.14	\$ 49.43	\$ 49.43	\$ 49.91	\$ 49.91	\$ 0.15	\$ 50.19
\$ 62.94	\$ 62.18	\$ 62.47	\$ 62.47	\$ 62.95	\$ 62.95	\$ 0.15	\$ 63.24
\$ 57.20	\$ 56.45	\$ 56.74	\$ 56.74	\$ 57.22	\$ 57.22	\$ 0.15	\$ 57.50
\$ 48.21	\$ 47.46	\$ 47.75	\$ 47.75	\$ 48.23	\$ 48.23	\$ 0.15	\$ 48.51
\$ 48.51	\$ 47.76	\$ 48.05	\$ 48.05	\$ 48.53	\$ 48.53	\$ 0.15	\$ 48.81
\$ 48.31	\$ 47.56	\$ 47.85	\$ 47.85	\$ 48.33	\$ 48.33	\$ 0.15	\$ 48.61
\$ 49.30	\$ 48.55	\$ 48.84	\$ 48.84	\$ 49.32	\$ 49.32	\$ 0.15	\$ 49.60
\$ 71.14	\$ 70.38	\$ 70.67	\$ 70.67	\$ 71.15	\$ 71.15	\$ 0.15	\$ 71.44
\$ 66.29	\$ 65.53	\$ 65.82	\$ 65.82	\$ 66.30	\$ 66.30	\$ 0.15	\$ 66.59
\$ 54.66	\$ 53.91	\$ 54.20	\$ 54.20	\$ 54.68	\$ 54.68	\$ 0.15	\$ 54.96
\$ 49.71	\$ 48.96	\$ 49.25	\$ 49.25	\$ 49.73	\$ 49.73	\$ 0.15	\$ 50.01
\$ 51.43	\$ 50.68	\$ 50.97	\$ 50.97	\$ 51.45	\$ 51.45	\$ 0.15	\$ 51.73
\$ 51.03	\$ 50.27	\$ 50.56	\$ 50.56	\$ 51.04	\$ 51.04	\$ 0.15	\$ 51.33



\$ 64.37	\$ 63.61	\$ 63.90	\$ 63.90	\$ 64.38	\$ 64.38	\$ 0.15	\$ 64.67
\$ 58.50	\$ 57.75	\$ 58.04	\$ 58.04	\$ 58.52	\$ 58.52	\$ 0.15	\$ 58.80
\$ 49.31	\$ 48.56	\$ 48.85	\$ 48.85	\$ 49.33	\$ 49.33	\$ 0.15	\$ 49.61
\$ 49.61	\$ 48.86	\$ 49.15	\$ 49.15	\$ 49.63	\$ 49.63	\$ 0.15	\$ 49.91
\$ 49.41	\$ 48.66	\$ 48.95	\$ 48.95	\$ 49.43	\$ 49.43	\$ 0.15	\$ 49.71
\$ 50.42	\$ 49.67	\$ 49.96	\$ 49.96	\$ 50.44	\$ 50.44	\$ 0.15	\$ 50.72
\$ 71.74	\$ 70.99	\$ 71.28	\$ 71.28	\$ 71.76	\$ 71.76	\$ 0.15	\$ 72.04
\$ 66.85	\$ 66.09	\$ 66.38	\$ 66.38	\$ 66.86	\$ 66.86	\$ 0.15	\$ 67.15
\$ 55.13	\$ 54.37	\$ 54.66	\$ 54.66	\$ 55.14	\$ 55.14	\$ 0.15	\$ 55.43
\$ 50.13	\$ 49.38	\$ 49.67	\$ 49.67	\$ 50.15	\$ 50.15	\$ 0.15	\$ 50.43
\$ 51.86	\$ 51.11	\$ 51.40	\$ 51.40	\$ 51.88	\$ 51.88	\$ 0.15	\$ 52.16
\$ 51.46	\$ 50.70	\$ 50.99	\$ 50.99	\$ 51.47	\$ 51.47	\$ 0.15	\$ 51.76
\$ 64.91	\$ 64.16	\$ 64.45	\$ 64.45	\$ 64.93	\$ 64.93	\$ 0.15	\$ 65.21
\$ 59.00	\$ 58.25	\$ 58.54	\$ 58.54	\$ 59.02	\$ 59.02	\$ 0.15	\$ 59.30
\$ 49.72	\$ 48.97	\$ 49.26	\$ 49.26	\$ 49.74	\$ 49.74	\$ 0.15	\$ 50.02
\$ 50.03	\$ 49.28	\$ 49.57	\$ 49.57	\$ 50.05	\$ 50.05	\$ 0.15	\$ 50.33
\$ 49.83	\$ 49.07	\$ 49.36	\$ 49.36	\$ 49.84	\$ 49.84	\$ 0.15	\$ 50.13
\$ 50.85	\$ 50.09	\$ 50.38	\$ 50.38	\$ 50.86	\$ 50.86	\$ 0.15	\$ 51.15







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		
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		

Location	North Hub 10-5-2016	
<b>SPP North Hub</b>		
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

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
Sep-32	\$	24.82
Oct-32	\$	27.56
Nov-32	\$	29.01
Dec-32	\$	30.30
Jan-33	\$	46.71
Feb-33	\$	42.56
Mar-33	\$	34.53
Apr-33	\$	32.59
May-33	\$	25.70
Jun-33	\$	26.85
Jul-33	\$	29.76
Aug-33	\$	29.14
Sep-33	\$	25.61
Oct-33	\$	28.43
Nov-33	\$	29.94
Dec-33	\$	31.26
Jan-34	\$	48.17
Feb-34	\$	43.89
Mar-34	\$	35.61
Apr-34	\$	33.60
May-34	\$	26.50
Jun-34	\$	27.68
Jul-34	\$	30.69
Aug-34	\$	30.05
Sep-34	\$	26.41
Oct-34	\$	29.32
Nov-34	\$	30.87
Dec-34	\$	32.24
Jan-35	\$	49.24
Feb-35	\$	44.86
Mar-35	\$	36.39
Apr-35	\$	34.35

May-35	\$	27.09
Jun-35	\$	28.30
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
1/1/2038	\$	52.27
2/1/2038	\$	47.62
3/1/2038	\$	38.63
4/1/2038	\$	36.46
5/1/2038	\$	28.75
6/1/2038	\$	30.04
7/1/2038	\$	33.30
8/1/2038	\$	32.60
9/1/2038	\$	28.65
10/1/2038	\$	31.81
11/1/2038	\$	33.49
12/1/2038	\$	34.98
1/1/2039	\$	53.46
2/1/2039	\$	48.71
3/1/2039	\$	39.51

4/1/2039	\$	37.29
5/1/2039	\$	29.41
6/1/2039	\$	30.72
7/1/2039	\$	34.06
8/1/2039	\$	33.35
9/1/2039	\$	29.31
10/1/2039	\$	32.54
11/1/2039	\$	34.26
12/1/2039	\$	35.77
1/1/2040	\$	53.91
2/1/2040	\$	49.12
3/1/2040	\$	39.85
4/1/2040	\$	37.61
5/1/2040	\$	29.66
6/1/2040	\$	30.98
7/1/2040	\$	34.35
8/1/2040	\$	33.63
9/1/2040	\$	29.56
10/1/2040	\$	32.82
11/1/2040	\$	34.55
12/1/2040	\$	36.08































24480 28128 52608 46.5% 53.5%

	Sunday s	Saturd ays	Holida ys	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
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