

WACC **7.24%** nominal, annual

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

NPV Of Energy Costs	\$ 85,401,559
Levelized Payment	\$ 29.63

<b>Information Only</b>
<b>Total Avoided Cost</b>
Levelized Payment
\$26.86

**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
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)	\$ 19.01
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)	\$ 23.65
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)	\$ 26.67
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)	\$ 32.12
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)	\$ 37.54
2037	277,190	49,272	227,919	\$ 32.14	\$ 43.48	\$ 1,583,644	\$ 9,910,586	\$ 11,494,230	\$ 41.47	\$ 0.78	\$ (0.68)	\$ (2.84)	\$ 38.73

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



Discount Rate 7.24%  
 Escalation Rate 2.00%  
 Nameplate Capacity 60

Capacity Value	Yearly Price/MW	Credited Capacity Per Project	Avoided Cost Each Project	
			Per year	3 Projects
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
2037	\$ 61,186	TBD	TBD	TBD

**Include protocol tariff from SPP. 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 all available data up to the most recent 10 years of commercial operation.
  - ii. Only metered hourly net power output (MWH) data may be used.
  - iii. After three years of commercial operations, if the Load Serving Entity does not perform or provide the net capability calculations 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
<b>Transaction Total</b>			<b>\$3,990,000</b>





2054	2055	2056	2057
\$ 8,694	\$ 8,694	\$ 8,694	\$ 8,694

\$141,314	\$141,314	\$141,314	\$141,314
\$ 713	\$ 713	\$ 713	\$ 713
\$180,720	\$180,720	\$180,720	\$180,720

Cost per MWh		
2015	\$ 0.24	EIA escalation
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%
2037	\$ 0.68	3%

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>		1	2	3	4	5	6	7	8	9	10	11	12	13
5			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
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)		150,720	301,441	452,161	602,882	753,602	904,323	1,055,043	1,205,764	1,356,484	1,507,205	1,657,925	1,808,645	1,959,366
12	Deferred Income Taxes		76,515	269,252	437,241	583,140	709,073	816,996	916,429	1,015,666	1,114,963	1,214,003	1,313,301	1,412,341	1,511,638
13															
14	<b>Total Year End Rate Base</b>		\$ 7,064,017	\$ 6,720,559	\$ 6,401,850	\$ 6,105,230	\$ 5,828,577	\$ 5,569,933	\$ 5,319,780	\$ 5,069,823	\$ 4,819,805	\$ 4,570,044	\$ 4,320,026	\$ 4,070,266	\$ 3,820,248
15															
16	<b>Average Annual Rate Base</b>		\$ 7,177,634	\$ 6,892,288	\$ 6,561,204	\$ 6,253,540	\$ 5,966,903	\$ 5,699,255	\$ 5,444,856	\$ 5,194,801	\$ 4,944,814	\$ 4,694,924	\$ 4,445,035	\$ 4,195,146	\$ 3,945,257
17															
18	Return (Avg. Rate Base*Cost of Capital)	7.24%	\$ 519,661	\$ 499,002	\$ 475,031	\$ 452,756	\$ 432,004	\$ 412,626	\$ 394,208	\$ 376,104	\$ 358,005	\$ 339,913	\$ 321,821	\$ 303,729	\$ 285,637
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		150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720
22	Deferred Income Taxes @ 35%		76,515	192,738	167,988	145,900	125,933	107,923	99,433	99,237	99,297	99,040	99,297	99,040	99,297
23	Income Taxes		105,908	(17,567)	(1,233)	13,036	25,718	36,926	38,950	32,791	26,377	20,283	13,675	7,581	973
24															
25	<b>Total Revenue Requirement</b>		\$ 909,887	\$ 881,975	\$ 849,590	\$ 819,496	\$ 791,459	\$ 765,278	\$ 740,394	\$ 715,935	\$ 691,483	\$ 667,040	\$ 642,596	\$ 618,153	\$ 593,710



	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			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
26															
27	<b>Income Taxes:</b>														
28	Revenues		\$ 909,887	\$ 881,975	\$ 849,590	\$ 819,496	\$ 791,459	\$ 765,278	\$ 740,394	\$ 715,935	\$ 691,483	\$ 667,040	\$ 642,596	\$ 618,153	\$ 593,710
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	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
34	Tax Depreciation	7	1,798	3,081	2,201	1,571	1,124	1,122	1,124	561	-	-	-	-	-
35															
36	Interest Expense (Based on Avg. Rate Base)	2.52%	180,876	173,686	165,342	157,589	150,366	143,621	137,210	130,909	124,609	118,312	112,015	105,718	99,420
37	Federal Taxable Income		\$ 302,593	\$ (50,193)	\$ (3,522)	\$ 37,247	\$ 73,481	\$ 105,502	\$ 111,285	\$ 93,690	\$ 75,363	\$ 57,952	\$ 39,071	\$ 21,660	\$ 2,779
38															
39	Federal Income Tax @ 35%	35.00%	\$ 105,908	\$ (17,567)	\$ (1,233)	\$ 13,036	\$ 25,718	\$ 36,926	\$ 38,950	\$ 32,791	\$ 26,377	\$ 20,283	\$ 13,675	\$ 7,581	\$ 973
40															
41	Federal Taxable Income		\$ 302,593	\$ (50,193)	\$ (3,522)	\$ 37,247	\$ 73,481	\$ 105,502	\$ 111,285	\$ 93,690	\$ 75,363	\$ 57,952	\$ 39,071	\$ 21,660	\$ 2,779
42															
43															
44															
45															
46															
47	<b>Juhl Wind Interconnection Costs (60MW)</b>														
48	20-year PMT of the NPV of Rev Req Cost		\$787,060.57												
49	Levelized Cost per MW		\$ 2.84												
50															
51															
52	Brule County Facilities Study - Draft				Davison County Facilities Study - Draft									Aurora County Facilities Study - Draft	
53															
54		<b>TPIF</b>	<b>NETWORK</b>		<b>TPIF</b>	<b>NETWORK</b>		<b>TPIF</b>	<b>NETWORK</b>		<b>TPIF</b>	<b>NETWORK</b>		<b>TPIF</b>	<b>NETWORK</b>
55	Substation	\$ 433,230	\$ 1,940,946		Substation	\$ 433,230	\$ 1,947,671		Substation	\$ 433,230	\$ 1,638,987		Substation	\$ 433,230	\$ 1,638,987
56	Transmission	\$ -	\$ 137,877		Transmission	\$ -	\$ 121,526		Transmission	\$ -	\$ 175,274		Transmission	\$ -	\$ 175,274
57	Relaying	\$ 47,451	\$ 377,833		Relaying	\$ 47,451	\$ 377,833		Relaying	\$ 47,451	\$ 377,833		Relaying	\$ 47,451	\$ 377,833
58	Metering	\$ 14,286	\$ -		Metering	\$ 40,780	\$ -		Metering	\$ 14,158	\$ -		Metering	\$ 14,158	\$ -
59	Communications <sup>1</sup>	\$ 37,817	\$ 6,618		Communications <sup>1</sup>	\$ 37,817	\$ -		Communications <sup>1</sup>	\$ 31,435	\$ 18,723		Communications <sup>1</sup>	\$ 31,435	\$ 18,723
60	EMS	\$ 994	\$ 1,988		EMS	\$ 994	\$ 1,988		EMS	\$ 1,408	\$ 2,751		EMS	\$ 1,408	\$ 2,751
61	Lands & Permitting	\$ -	\$ 152,457		Lands & Permitting	\$ -	\$ 157,683		Lands & Permitting	\$ -	\$ 155,224		Lands & Permitting	\$ -	\$ 155,224
62	Subtotal	\$ 533,778	\$ 2,617,719		Subtotal	\$ 560,272	\$ 2,606,701		Subtotal	\$ 527,682	\$ 2,368,792		Subtotal	\$ 527,682	\$ 2,368,792
63															
64	Distribution Subtotal	\$ -	\$ -		Distribution Subtotal	\$ 2,257	\$ 10,212		Distribution Subtotal	\$ -	\$ -		Distribution Subtotal	\$ -	\$ -
65															
66	Distribution Subtotal	\$ -	\$ -		TPIF Upgrades	\$ 560,272			TPIF Upgrades	\$ 527,682			TPIF Upgrades	\$ 527,682	
67					Network Upgrades	\$ 2,606,701			Network Upgrades	\$ 2,368,792			Network Upgrades	\$ 2,368,792	
68	TPIF Upgrades	\$ 533,778			Distribution	\$ 12,469			Distribution	\$ -			Distribution	\$ -	
69	Network Upgrades	\$ 2,617,719			TOTAL	\$ 3,179,442			TOTAL	\$ 2,896,474			TOTAL	\$ 2,896,474	
70	Distribution	\$ -													
71	TOTAL	\$ 3,151,497													
72															
73															

	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			2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
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)		2,110,086	2,260,807	2,411,527	2,562,248	2,712,968	2,863,689	3,014,409	3,165,129	3,315,850	3,466,570	3,617,291	3,768,011
12	Deferred Income Taxes		1,610,678	1,709,976	1,733,120	1,680,368	1,627,615	1,574,863	1,522,111	1,469,359	1,416,607	1,363,855	1,311,102	1,258,350
13														
14	Total Year End Rate Base		\$ 3,570,487	\$ 3,320,469	\$ 3,146,605	\$ 3,048,637	\$ 2,950,668	\$ 2,852,700	\$ 2,754,732	\$ 2,656,764	\$ 2,558,795	\$ 2,460,827	\$ 2,362,859	\$ 2,264,890
15														
16	Average Annual Rate Base		\$ 3,695,368	\$ 3,445,478	\$ 3,233,537	\$ 3,097,621	\$ 2,999,653	\$ 2,901,684	\$ 2,803,716	\$ 2,705,748	\$ 2,607,779	\$ 2,509,811	\$ 2,411,843	\$ 2,313,875
17														
18	Return (Avg. Rate Base*Cost of Capital)	7.24%	\$ 267,545	\$ 249,453	\$ 234,108	\$ 224,268	\$ 217,175	\$ 210,082	\$ 202,989	\$ 195,896	\$ 188,803	\$ 181,710	\$ 174,617	\$ 167,525
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		150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720
22	Deferred Income Taxes @ 35%		99,040	99,297	23,144	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)
23	Income Taxes		(5,121)	(11,729)	59,038	131,479	128,989	126,500	124,010	121,520				
24														
25	<b>Total Revenue Requirement</b>		\$ 569,267	\$ 544,824	\$ 524,093	\$ 510,799	\$ 501,216	\$ 491,633	\$ 482,050	\$ 472,467	\$ 343,855	\$ 336,762	\$ 329,669	\$ 322,576

	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			2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
26														
27	<b>Income Taxes:</b>													
28	Revenues		\$ 569,267	\$ 544,824	\$ 524,093	\$ 510,799	\$ 501,216	\$ 491,633	\$ 482,050	\$ 472,467	\$ 343,855	\$ 336,762	\$ 329,669	\$ 322,576
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		MACRS												
32		yes												
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%	93,123	86,826	81,485	78,060	75,591	73,122	70,654	68,185	65,716	63,247	60,778	58,310
37	Federal Taxable Income		\$ (14,631)	\$ (33,512)	\$ 168,679	\$ 375,655	\$ 368,541	\$ 361,427	\$ 354,313	\$ 347,199	\$ 221,055	\$ 216,431	\$ 211,807	\$ 207,183
38														
39	Federal Income Tax @ 35%	35.00%	\$ (5,121)	\$ (11,729)	\$ 59,038	\$ 131,479	\$ 128,989	\$ 126,500	\$ 124,010	\$ 121,620	\$ 77,369	\$ 75,751	\$ 74,133	\$ 72,514
40														
41	Federal Taxable Income		\$ (14,631)	\$ (33,512)	\$ 168,679	\$ 375,655	\$ 368,541	\$ 361,427	\$ 354,313	\$ 347,199	\$ 221,055	\$ 216,431	\$ 211,807	\$ 207,183
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														
52	<b>Brule County Facilities Study - Draft</b>													
53														
54														
55		<b>TPIF</b>												
56	Substation		\$ 433,230											
57	Transmission		\$ -											
58	Relaying		\$ 47,451											
59	Metering		\$ 14,286											
60	Communications <sup>1</sup>		\$ 37,817											
61	EMS		\$ 994											
62	Lands & Permitting		\$ -											
63														
64	<b>Subtotal</b>		<b>\$ 533,778</b>											
65														
66	<b>Distribution Subtotal</b>		<b>\$ -</b>											
67														
68														
69	TPIF Upgrades		\$ 533,778											
70	Network Upgrades		\$ 2,617,719											
71	Distribution		\$ -											
72	<b>TOTAL</b>		<b>\$ 3,151,497</b>											
73														



	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>Juhl Wind (Brule, Davison, Aurora)</b>														
4	<b>Network Upgrades</b>														
5			26 2043	27 2044	28 2045	29 2046	30 2047	31 2048	32 2049	33 2050	34 2051	35 2052	36 2053	37 2054	38 2055
6	<b>Rate Base:</b>														
7															
8	Project Capitalize? (yes = capital, no = expense)	yes	\$ 7,291,252	\$ 7,291,252	\$ 7,291,262	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252	\$ 7,291,252
9	Less:														
10	Accumulated Depreciation (Book Life)		3,918,732	4,069,462	4,220,173	4,370,893	4,521,614	4,672,334	4,823,054	4,973,775	5,124,495	5,275,216	5,425,936	5,576,657	5,727,377
11	Deferred Income Taxes		1,205,598	1,152,846	1,100,094	1,047,342	994,590	941,837	889,085	836,333	783,581	730,829	678,077	625,324	572,572
12															
13	Total Year End Rate Base		\$ 2,166,922	\$ 2,068,954	\$ 1,970,986	\$ 1,873,017	\$ 1,775,049	\$ 1,677,081	\$ 1,579,112	\$ 1,481,144	\$ 1,383,176	\$ 1,285,207	\$ 1,187,239	\$ 1,089,271	\$ 991,303
14															
15	Average Annual Rate Base		\$ 2,215,906	\$ 2,117,938	\$ 2,019,970	\$ 1,922,001	\$ 1,824,033	\$ 1,726,065	\$ 1,628,097	\$ 1,530,128	\$ 1,432,160	\$ 1,334,192	\$ 1,236,223	\$ 1,138,255	\$ 1,040,287
16															
17	Return (Avg. Rate Base*Cost of Capital)	7.24%	\$ 160,432	\$ 153,339	\$ 146,246	\$ 139,153	\$ 132,060	\$ 124,967	\$ 117,874	\$ 110,781	\$ 103,688	\$ 96,595	\$ 89,503	\$ 82,410	\$ 75,317
18	Property Taxes	0.78%	-	-	-	-	-	-	-	-	-	-	-	-	-
19															
20		0.00%													
21	Depreciation		150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720	150,720
22	Deferred Income Taxes @ 35%		(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)	(52,752)
23	Income Taxes														
24															
25	<b>Total Revenue Requirement</b>		\$ 258,400	\$ 251,307	\$ 244,214	\$ 237,121	\$ 230,028	\$ 222,935	\$ 215,842	\$ 208,750	\$ 201,657	\$ 194,564	\$ 187,471	\$ 180,378	\$ 173,285

	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>		26	27	28	29	30	31	32	33	34	35	36	37	38
5			2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
26															
27	<b>Income Taxes:</b>														
28	Revenues		\$ 258,400	\$ 251,307	\$ 244,214	\$ 237,121	\$ 230,028	\$ 222,935	\$ 215,842	\$ 208,750	\$ 201,657	\$ 194,564	\$ 187,471	\$ 180,378	\$ 173,285
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%	55,841	53,372	50,903	48,434	45,966	43,497	41,028	38,559	36,090	33,622	31,153	28,684	26,215
37	Federal Taxable Income		\$ 202,559	\$ 197,935	\$ 193,311	\$ 188,687	\$ 184,063	\$ 179,439	\$ 174,814	\$ 170,190	\$ 165,566	\$ 160,942	\$ 156,318	\$ 151,694	\$ 147,070
38															
39	Federal Income Tax @ 35%	35.00%	\$ 70,896	\$ 69,277	\$ 67,659	\$ 66,040	\$ 64,422	\$ 62,803	\$ 61,185	\$ 59,567	\$ 57,948	\$ 56,330	\$ 54,711	\$ 53,093	\$ 51,474
40															
41	Federal Taxable Income		\$ 202,559	\$ 197,935	\$ 193,311	\$ 188,687	\$ 184,063	\$ 179,439	\$ 174,814	\$ 170,190	\$ 165,566	\$ 160,942	\$ 156,318	\$ 151,694	\$ 147,070
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															
52	Brule County Facilities Study - Draft														
53															
54		<b>TPIF</b>	<b>NETWO</b>												
55	Substation	\$	433,230	\$	1										
56	Transmission	\$	-	\$	-										
57	Relaying	\$	47,451	\$	-										
58	Metering	\$	14,286	\$	-										
59	Communications <sup>1</sup>	\$	37,817	\$	-										
60	EMS	\$	994	\$	-										
61	Lands & Permitting	\$	-	\$	-										
62	Subtotal	\$	533,778	\$	2										
63															
64	Distribution Subtotal	\$	-	\$	-										
65															
66															
67															
68	TPIF Upgrades	\$	533,778												
69	Network Upgrades	\$	2,617,719												
70	Distribution	\$	-												
71	TOTAL	\$	3,151,497												
72															
73															

	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			2056	2057
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)		5,878,098	6,028,818
12	Deferred Income Taxes		519,820	467,068
13				
14	Total Year End Rate Base		\$ 893,334	\$ 795,366
15				
16	Average Annual Rate Base		\$ 942,318	\$ 844,350
17				
18	Return (Avg. Rate Base*Cost of Capital)	7.24%	\$ 68,224	\$ 61,131
19	Property Taxes	0.78%	-	-
20		0.00%		
21	Depreciation		150,720	150,720
22	Deferred Income Taxes @ 35%		(52,752)	(52,752)
23	Income Taxes			
24				
25	<b>Total Revenue Requirement</b>		\$ 166,192	\$ 159,099



	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			2056	2057
26				
27	<b>Income Taxes:</b>			
28	Revenues		\$ 166,192	\$ 159,099
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%	23,746	21,278
37	Federal Taxable Income		\$ 142,446	\$ 137,822
38				
39	Federal Income Tax @ 35%	35.00%	\$ 49,856	\$ 48,238
40				
41	Federal Taxable Income		\$ 142,446	\$ 137,822
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				
52	Brule County Facilities Study - Draft			
53				
54		<b>TPIF</b>	<b>NETWC</b>	
55	Substation	\$ 433,230	\$ 1	
56	Transmission	\$ -	\$ -	
57	Relaying	\$ 47,451	\$ -	
58	Metering	\$ 14,286	\$ -	
59	Communications <sup>1</sup>	\$ 37,817	\$ -	
60	EMS	\$ 994	\$ -	
61	Lands & Permitting	\$ -	\$ -	
62				
63	<b>Subtotal</b>	<b>\$ 533,778</b>	<b>\$ 2</b>	
64				
65				
66	<b>Distribution Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	
67				
68	TPIF Upgrades	\$ 533,778		
69	Network Upgrades	\$ 2,617,719		
70	Distribution	\$ -		
71	<b>TOTAL</b>	<b>\$ 3,151,497</b>		
72				
73				







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
Sales 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
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
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
End-Use Prices (2015 cents per kilowatthour)	62-AEO2016.106. 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
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
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
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
All Sectors Average (nominal cents per kilowatthour)	Electricity: 62-AEO201 2015 cents 62-AEO2016.113.	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
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
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
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
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
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
Prices by Service Category (2015 cents per kilowatthour)	62-AEO2016.120. 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
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
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
(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
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
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
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
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
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
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
<b>Fuel Prices to the Electric Power Sector</b> (2015 dollars per million Btu)	62-AEO2016.136. 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
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
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
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
(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
<b>Natural Gas</b>	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
			-42%	18%	14%	9%	9%	9%	5%	4%	6%	5%	5%	2%
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
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
<b>Emissions from the Electric Power Sector</b>	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
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

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
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
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





0.378397	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%
0.110397	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%
0.268	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%
91.05018	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%
11.45395	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%
8.943477	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%
7.026441	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%
14.15362	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%
9.32228	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%
14.5275	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%
11.34337	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%
8.911914	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%
17.9516	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%
11.82382	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%
5.480128	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%
1.214291	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%
2.627861	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%
6.950664	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%
1.540133	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%
3.333021	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%
0.51425	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%
0.039658	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%
0.002089	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%
0.555996	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%
2.051547	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%
5.701366	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%
19.84681	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%
11.68915	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%
2.602058	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%
\$ 7.23	\$ 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%
0%	1%	1%	2%	3%	5%	3%	3%	2%	1%	3%	3%	2%	1%	2.78%
25.17249	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%
14.82581	15.47768	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%
15.81778	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%
57.99851	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%

0.013609	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%
0.041063	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%
0.17729	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%
2018 \$	27.31 \$	18.08 \$	22.37	53.5%
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	
2037 \$	52.57 \$	34.79 \$	43.06	

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	Big Stone	Coyote	Huron 1	Huron 2	Neal 4	Oak Tree	Titan	Load
1/1/2017 12:00:00 AM	2/1/2017 12:00:00 AM	\$ 31.45	\$ 0.33	\$ 31.78	\$ 31.64	\$ 31.75	\$ 30.99	\$ 31.28	\$ 31.28	\$ 31.76	\$ 31.76	\$ 0.16	\$ 32.05
2/1/2017 12:00:00 AM	3/1/2017 12:00:00 AM	\$ 31.50	\$ 0.34	\$ 31.83	\$ 31.69	\$ 31.80	\$ 31.04	\$ 31.33	\$ 31.33	\$ 31.81	\$ 31.81	\$ 0.17	\$ 32.10
3/1/2017 12:00:00 AM	4/1/2017 12:00:00 AM	\$ 30.00	\$ 0.34	\$ 30.33	\$ 30.19	\$ 30.30	\$ 29.54	\$ 29.83	\$ 29.83	\$ 30.31	\$ 30.31	\$ 0.17	\$ 30.60
4/1/2017 12:00:00 AM	5/1/2017 12:00:00 AM	\$ 27.75	\$ 0.34	\$ 28.08	\$ 27.94	\$ 28.05	\$ 27.29	\$ 27.58	\$ 27.58	\$ 28.06	\$ 28.06	\$ 0.17	\$ 28.35
5/1/2017 12:00:00 AM	6/1/2017 12:00:00 AM	\$ 27.45	\$ 0.35	\$ 27.78	\$ 27.64	\$ 27.75	\$ 26.99	\$ 27.28	\$ 27.28	\$ 27.76	\$ 27.76	\$ 0.18	\$ 28.05
6/1/2017 12:00:00 AM	7/1/2017 12:00:00 AM	\$ 26.45	\$ 0.37	\$ 26.78	\$ 26.64	\$ 26.75	\$ 25.99	\$ 26.28	\$ 26.28	\$ 26.76	\$ 26.76	\$ 0.20	\$ 27.05
7/1/2017 12:00:00 AM	8/1/2017 12:00:00 AM	\$ 36.20	\$ 0.36	\$ 36.53	\$ 36.39	\$ 36.50	\$ 35.74	\$ 36.03	\$ 36.03	\$ 36.51	\$ 36.51	\$ 0.19	\$ 36.80
8/1/2017 12:00:00 AM	9/1/2017 12:00:00 AM	\$ 32.70	\$ 0.36	\$ 33.03	\$ 32.89	\$ 33.00	\$ 32.24	\$ 32.53	\$ 32.53	\$ 33.01	\$ 33.01	\$ 0.19	\$ 33.30
9/1/2017 12:00:00 AM	10/1/2017 12:00:00 AM	\$ 28.80	\$ 0.35	\$ 29.13	\$ 28.99	\$ 29.10	\$ 28.34	\$ 28.63	\$ 28.63	\$ 29.11	\$ 29.11	\$ 0.18	\$ 29.40
10/1/2017 12:00:00 AM	11/1/2017 12:00:00 AM	\$ 23.85	\$ 0.33	\$ 24.18	\$ 24.04	\$ 24.15	\$ 23.39	\$ 23.68	\$ 23.68	\$ 24.16	\$ 24.16	\$ 0.16	\$ 24.45
11/1/2017 12:00:00 AM	12/1/2017 12:00:00 AM	\$ 23.80	\$ 0.35	\$ 24.13	\$ 23.99	\$ 24.10	\$ 23.34	\$ 23.63	\$ 23.63	\$ 24.11	\$ 24.11	\$ 0.18	\$ 24.40
12/1/2017 12:00:00 AM	1/1/2018 12:00:00 AM	\$ 26.40	\$ 0.35	\$ 26.73	\$ 26.59	\$ 26.70	\$ 25.94	\$ 26.23	\$ 26.23	\$ 26.71	\$ 26.71	\$ 0.18	\$ 27.00
1/1/2018 12:00:00 AM	2/1/2018 12:00:00 AM	\$ 35.05	\$ 0.35	\$ 35.38	\$ 35.24	\$ 35.35	\$ 34.59	\$ 34.88	\$ 34.88	\$ 35.36	\$ 35.36	\$ 0.18	\$ 35.65
2/1/2018 12:00:00 AM	3/1/2018 12:00:00 AM	\$ 32.65	\$ 0.33	\$ 32.98	\$ 32.84	\$ 32.95	\$ 32.19	\$ 32.48	\$ 32.48	\$ 32.96	\$ 32.96	\$ 0.16	\$ 33.25
3/1/2018 12:00:00 AM	4/1/2018 12:00:00 AM	\$ 26.90	\$ 0.32	\$ 27.23	\$ 27.09	\$ 27.20	\$ 26.44	\$ 26.73	\$ 26.73	\$ 27.21	\$ 27.21	\$ 0.15	\$ 27.50
4/1/2018 12:00:00 AM	5/1/2018 12:00:00 AM	\$ 24.45	\$ 0.32	\$ 24.78	\$ 24.64	\$ 24.75	\$ 23.99	\$ 24.28	\$ 24.28	\$ 24.76	\$ 24.76	\$ 0.15	\$ 25.05
5/1/2018 12:00:00 AM	6/1/2018 12:00:00 AM	\$ 25.30	\$ 0.32	\$ 25.63	\$ 25.49	\$ 25.60	\$ 24.84	\$ 25.13	\$ 25.13	\$ 25.61	\$ 25.61	\$ 0.15	\$ 25.90
6/1/2018 12:00:00 AM	7/1/2018 12:00:00 AM	\$ 25.10	\$ 0.32	\$ 25.43	\$ 25.29	\$ 25.40	\$ 24.64	\$ 24.93	\$ 24.93	\$ 25.41	\$ 25.41	\$ 0.15	\$ 25.70
7/1/2018 12:00:00 AM	8/1/2018 12:00:00 AM	\$ 31.70	\$ 0.32	\$ 32.03	\$ 31.89	\$ 32.00	\$ 31.24	\$ 31.53	\$ 31.53	\$ 32.01	\$ 32.01	\$ 0.15	\$ 32.30
8/1/2018 12:00:00 AM	9/1/2018 12:00:00 AM	\$ 28.80	\$ 0.32	\$ 29.13	\$ 28.99	\$ 29.10	\$ 28.34	\$ 28.63	\$ 28.63	\$ 29.11	\$ 29.11	\$ 0.15	\$ 29.40
9/1/2018 12:00:00 AM	10/1/2018 12:00:00 AM	\$ 24.25	\$ 0.32	\$ 24.58	\$ 24.44	\$ 24.55	\$ 23.79	\$ 24.08	\$ 24.08	\$ 24.56	\$ 24.56	\$ 0.15	\$ 24.85
10/1/2018 12:00:00 AM	11/1/2018 12:00:00 AM	\$ 24.40	\$ 0.32	\$ 24.73	\$ 24.59	\$ 24.70	\$ 23.94	\$ 24.23	\$ 24.23	\$ 24.71	\$ 24.71	\$ 0.15	\$ 25.00
11/1/2018 12:00:00 AM	12/1/2018 12:00:00 AM	\$ 24.30	\$ 0.32	\$ 24.63	\$ 24.49	\$ 24.60	\$ 23.84	\$ 24.13	\$ 24.13	\$ 24.61	\$ 24.61	\$ 0.15	\$ 24.90
12/1/2018 12:00:00 AM	1/1/2019 12:00:00 AM	\$ 24.80	\$ 0.32	\$ 25.13	\$ 24.99	\$ 25.10	\$ 24.34	\$ 24.63	\$ 24.63	\$ 25.11	\$ 25.11	\$ 0.15	\$ 25.40
1/1/2019 12:00:00 AM	2/1/2019 12:00:00 AM	\$ 38.33	\$ 0.32	\$ 38.66	\$ 38.52	\$ 38.63	\$ 37.87	\$ 38.16	\$ 38.16	\$ 38.64	\$ 38.64	\$ 0.15	\$ 38.93
2/1/2019 12:00:00 AM	3/1/2019 12:00:00 AM	\$ 35.71	\$ 0.32	\$ 36.03	\$ 35.90	\$ 36.00	\$ 35.25	\$ 35.54	\$ 35.54	\$ 36.02	\$ 36.02	\$ 0.15	\$ 36.30
3/1/2019 12:00:00 AM	4/1/2019 12:00:00 AM	\$ 29.42	\$ 0.32	\$ 29.74	\$ 29.61	\$ 29.71	\$ 28.96	\$ 29.25	\$ 29.25	\$ 29.73	\$ 29.73	\$ 0.15	\$ 30.01
4/1/2019 12:00:00 AM	5/1/2019 12:00:00 AM	\$ 26.74	\$ 0.32	\$ 27.06	\$ 26.93	\$ 27.03	\$ 26.28	\$ 26.57	\$ 26.57	\$ 27.05	\$ 27.05	\$ 0.15	\$ 27.33
5/1/2019 12:00:00 AM	6/1/2019 12:00:00 AM	\$ 27.67	\$ 0.32	\$ 27.99	\$ 27.86	\$ 27.96	\$ 27.21	\$ 27.50	\$ 27.50	\$ 27.98	\$ 27.98	\$ 0.15	\$ 28.26
6/1/2019 12:00:00 AM	7/1/2019 12:00:00 AM	\$ 27.45	\$ 0.32	\$ 27.77	\$ 27.64	\$ 27.74	\$ 26.99	\$ 27.28	\$ 27.28	\$ 27.76	\$ 27.76	\$ 0.15	\$ 28.04
7/1/2019 12:00:00 AM	8/1/2019 12:00:00 AM	\$ 34.67	\$ 0.32	\$ 34.99	\$ 34.86	\$ 34.96	\$ 34.21	\$ 34.50	\$ 34.50	\$ 34.98	\$ 34.98	\$ 0.15	\$ 35.26
8/1/2019 12:00:00 AM	9/1/2019 12:00:00 AM	\$ 31.50	\$ 0.32	\$ 31.82	\$ 31.69	\$ 31.79	\$ 31.04	\$ 31.33	\$ 31.33	\$ 31.81	\$ 31.81	\$ 0.15	\$ 32.09
9/1/2019 12:00:00 AM	10/1/2019 12:00:00 AM	\$ 26.52	\$ 0.32	\$ 26.84	\$ 26.71	\$ 26.81	\$ 26.06	\$ 26.35	\$ 26.35	\$ 26.83	\$ 26.83	\$ 0.15	\$ 27.11
10/1/2019 12:00:00 AM	11/1/2019 12:00:00 AM	\$ 26.68	\$ 0.32	\$ 27.01	\$ 26.87	\$ 26.98	\$ 26.23	\$ 26.52	\$ 26.52	\$ 27.00	\$ 27.00	\$ 0.15	\$ 27.28
11/1/2019 12:00:00 AM	12/1/2019 12:00:00 AM	\$ 26.57	\$ 0.32	\$ 26.90	\$ 26.76	\$ 26.87	\$ 26.12	\$ 26.41	\$ 26.41	\$ 26.89	\$ 26.89	\$ 0.15	\$ 27.17



12/1/2019 12:00:00 AM	1/1/2020 12:00:00 AM	\$ 27.12	\$ 0.32	\$ 27.45	\$ 27.31	\$ 27.42	\$ 26.66	\$ 26.95	\$ 26.95	\$ 27.43	\$ 27.43	\$ 0.15	\$ 27.72
1/1/2020 12:00:00 AM	2/1/2020 12:00:00 AM	\$ 41.77	\$ 0.32	\$ 42.10	\$ 41.96	\$ 42.07	\$ 41.32	\$ 41.61	\$ 41.61	\$ 42.09	\$ 42.09	\$ 0.15	\$ 42.37
2/1/2020 12:00:00 AM	3/1/2020 12:00:00 AM	\$ 38.91	\$ 0.32	\$ 39.24	\$ 39.10	\$ 39.21	\$ 38.46	\$ 38.75	\$ 38.75	\$ 39.23	\$ 39.23	\$ 0.15	\$ 39.51
3/1/2020 12:00:00 AM	4/1/2020 12:00:00 AM	\$ 32.06	\$ 0.32	\$ 32.38	\$ 32.25	\$ 32.35	\$ 31.60	\$ 31.89	\$ 31.89	\$ 32.37	\$ 32.37	\$ 0.15	\$ 32.65
4/1/2020 12:00:00 AM	5/1/2020 12:00:00 AM	\$ 29.14	\$ 0.32	\$ 29.47	\$ 29.33	\$ 29.44	\$ 28.68	\$ 28.97	\$ 28.97	\$ 29.45	\$ 29.45	\$ 0.15	\$ 29.74
5/1/2020 12:00:00 AM	6/1/2020 12:00:00 AM	\$ 30.15	\$ 0.32	\$ 30.48	\$ 30.34	\$ 30.45	\$ 29.70	\$ 29.99	\$ 29.99	\$ 30.47	\$ 30.47	\$ 0.15	\$ 30.75
6/1/2020 12:00:00 AM	7/1/2020 12:00:00 AM	\$ 29.91	\$ 0.32	\$ 30.24	\$ 30.10	\$ 30.21	\$ 29.46	\$ 29.75	\$ 29.75	\$ 30.23	\$ 30.23	\$ 0.15	\$ 30.51
7/1/2020 12:00:00 AM	8/1/2020 12:00:00 AM	\$ 37.78	\$ 0.32	\$ 38.11	\$ 37.97	\$ 38.08	\$ 37.32	\$ 37.61	\$ 37.61	\$ 38.09	\$ 38.09	\$ 0.15	\$ 38.38
8/1/2020 12:00:00 AM	9/1/2020 12:00:00 AM	\$ 34.32	\$ 0.32	\$ 34.65	\$ 34.51	\$ 34.62	\$ 33.87	\$ 34.16	\$ 34.16	\$ 34.64	\$ 34.64	\$ 0.15	\$ 34.92
9/1/2020 12:00:00 AM	10/1/2020 12:00:00 AM	\$ 28.90	\$ 0.32	\$ 29.23	\$ 29.09	\$ 29.20	\$ 28.44	\$ 28.73	\$ 28.73	\$ 29.21	\$ 29.21	\$ 0.15	\$ 29.50
10/1/2020 12:00:00 AM	11/1/2020 12:00:00 AM	\$ 29.08	\$ 0.32	\$ 29.41	\$ 29.27	\$ 29.38	\$ 28.62	\$ 28.91	\$ 28.91	\$ 29.39	\$ 29.39	\$ 0.15	\$ 29.68
11/1/2020 12:00:00 AM	12/1/2020 12:00:00 AM	\$ 28.96	\$ 0.32	\$ 29.29	\$ 29.15	\$ 29.26	\$ 28.50	\$ 28.79	\$ 28.79	\$ 29.27	\$ 29.27	\$ 0.15	\$ 29.56
12/1/2020 12:00:00 AM	1/1/2021 12:00:00 AM	\$ 29.56	\$ 0.32	\$ 29.88	\$ 29.75	\$ 29.85	\$ 29.10	\$ 29.39	\$ 29.39	\$ 29.87	\$ 29.87	\$ 0.15	\$ 30.15
1/1/2021 12:00:00 AM	2/1/2021 12:00:00 AM	\$ 43.84	\$ 0.32	\$ 44.16	\$ 44.03	\$ 44.13	\$ 43.38	\$ 43.67	\$ 43.67	\$ 44.15	\$ 44.15	\$ 0.15	\$ 44.43
2/1/2021 12:00:00 AM	3/1/2021 12:00:00 AM	\$ 40.84	\$ 0.32	\$ 41.16	\$ 41.03	\$ 41.13	\$ 40.38	\$ 40.67	\$ 40.67	\$ 41.15	\$ 41.15	\$ 0.15	\$ 41.43
3/1/2021 12:00:00 AM	4/1/2021 12:00:00 AM	\$ 33.65	\$ 0.32	\$ 33.97	\$ 33.84	\$ 33.94	\$ 33.19	\$ 33.48	\$ 33.48	\$ 33.96	\$ 33.96	\$ 0.15	\$ 34.24
4/1/2021 12:00:00 AM	5/1/2021 12:00:00 AM	\$ 30.58	\$ 0.32	\$ 30.91	\$ 30.77	\$ 30.88	\$ 30.12	\$ 30.41	\$ 30.41	\$ 30.89	\$ 30.89	\$ 0.15	\$ 31.18
5/1/2021 12:00:00 AM	6/1/2021 12:00:00 AM	\$ 31.64	\$ 0.32	\$ 31.97	\$ 31.83	\$ 31.94	\$ 31.19	\$ 31.48	\$ 31.48	\$ 31.96	\$ 31.96	\$ 0.15	\$ 32.24
6/1/2021 12:00:00 AM	7/1/2021 12:00:00 AM	\$ 31.39	\$ 0.32	\$ 31.72	\$ 31.58	\$ 31.69	\$ 30.94	\$ 31.23	\$ 31.23	\$ 31.71	\$ 31.71	\$ 0.15	\$ 31.99
7/1/2021 12:00:00 AM	8/1/2021 12:00:00 AM	\$ 39.65	\$ 0.32	\$ 39.97	\$ 39.84	\$ 39.94	\$ 39.19	\$ 39.48	\$ 39.48	\$ 39.96	\$ 39.96	\$ 0.15	\$ 40.24
8/1/2021 12:00:00 AM	9/1/2021 12:00:00 AM	\$ 36.02	\$ 0.32	\$ 36.35	\$ 36.21	\$ 36.32	\$ 35.56	\$ 35.85	\$ 35.85	\$ 36.33	\$ 36.33	\$ 0.15	\$ 36.62
9/1/2021 12:00:00 AM	10/1/2021 12:00:00 AM	\$ 30.33	\$ 0.32	\$ 30.66	\$ 30.52	\$ 30.63	\$ 29.87	\$ 30.16	\$ 30.16	\$ 30.64	\$ 30.64	\$ 0.15	\$ 30.93
10/1/2021 12:00:00 AM	11/1/2021 12:00:00 AM	\$ 30.52	\$ 0.32	\$ 30.84	\$ 30.71	\$ 30.81	\$ 30.06	\$ 30.35	\$ 30.35	\$ 30.83	\$ 30.83	\$ 0.15	\$ 31.11
11/1/2021 12:00:00 AM	12/1/2021 12:00:00 AM	\$ 30.39	\$ 0.32	\$ 30.72	\$ 30.58	\$ 30.69	\$ 29.94	\$ 30.23	\$ 30.23	\$ 30.71	\$ 30.71	\$ 0.15	\$ 30.99
12/1/2021 12:00:00 AM	1/1/2022 12:00:00 AM	\$ 31.02	\$ 0.32	\$ 31.34	\$ 31.21	\$ 31.31	\$ 30.56	\$ 30.85	\$ 30.85	\$ 31.33	\$ 31.33	\$ 0.15	\$ 31.61
1/1/2022 12:00:00 AM	2/1/2022 12:00:00 AM	\$ 45.40	\$ 0.32	\$ 45.72	\$ 45.59	\$ 45.69	\$ 44.94	\$ 45.23	\$ 45.23	\$ 45.71	\$ 45.71	\$ 0.15	\$ 45.99
2/1/2022 12:00:00 AM	3/1/2022 12:00:00 AM	\$ 42.29	\$ 0.32	\$ 42.61	\$ 42.48	\$ 42.58	\$ 41.83	\$ 42.12	\$ 42.12	\$ 42.60	\$ 42.60	\$ 0.15	\$ 42.88
3/1/2022 12:00:00 AM	4/1/2022 12:00:00 AM	\$ 34.84	\$ 0.32	\$ 35.17	\$ 35.03	\$ 35.14	\$ 34.38	\$ 34.67	\$ 34.67	\$ 35.15	\$ 35.15	\$ 0.15	\$ 35.44
4/1/2022 12:00:00 AM	5/1/2022 12:00:00 AM	\$ 31.67	\$ 0.32	\$ 31.99	\$ 31.86	\$ 31.96	\$ 31.21	\$ 31.50	\$ 31.50	\$ 31.98	\$ 31.98	\$ 0.15	\$ 32.26
5/1/2022 12:00:00 AM	6/1/2022 12:00:00 AM	\$ 32.77	\$ 0.32	\$ 33.09	\$ 32.96	\$ 33.06	\$ 32.31	\$ 32.60	\$ 32.60	\$ 33.08	\$ 33.08	\$ 0.15	\$ 33.36
6/1/2022 12:00:00 AM	7/1/2022 12:00:00 AM	\$ 32.51	\$ 0.32	\$ 32.83	\$ 32.70	\$ 32.80	\$ 32.05	\$ 32.34	\$ 32.34	\$ 32.82	\$ 32.82	\$ 0.15	\$ 33.10
7/1/2022 12:00:00 AM	8/1/2022 12:00:00 AM	\$ 41.06	\$ 0.32	\$ 41.38	\$ 41.25	\$ 41.35	\$ 40.60	\$ 40.89	\$ 40.89	\$ 41.37	\$ 41.37	\$ 0.15	\$ 41.65
8/1/2022 12:00:00 AM	9/1/2022 12:00:00 AM	\$ 37.30	\$ 0.32	\$ 37.63	\$ 37.49	\$ 37.60	\$ 36.84	\$ 37.13	\$ 37.13	\$ 37.61	\$ 37.61	\$ 0.15	\$ 37.90
9/1/2022 12:00:00 AM	10/1/2022 12:00:00 AM	\$ 31.41	\$ 0.32	\$ 31.73	\$ 31.60	\$ 31.70	\$ 30.95	\$ 31.24	\$ 31.24	\$ 31.72	\$ 31.72	\$ 0.15	\$ 32.00
10/1/2022 12:00:00 AM	11/1/2022 12:00:00 AM	\$ 31.60	\$ 0.32	\$ 31.93	\$ 31.79	\$ 31.90	\$ 31.15	\$ 31.44	\$ 31.44	\$ 31.92	\$ 31.92	\$ 0.15	\$ 32.20
11/1/2022 12:00:00 AM	12/1/2022 12:00:00 AM	\$ 31.47	\$ 0.32	\$ 31.80	\$ 31.66	\$ 31.77	\$ 31.02	\$ 31.31	\$ 31.31	\$ 31.79	\$ 31.79	\$ 0.15	\$ 32.07
12/1/2022 12:00:00 AM	1/1/2023 12:00:00 AM	\$ 32.12	\$ 0.32	\$ 32.45	\$ 32.31	\$ 32.42	\$ 31.66	\$ 31.95	\$ 31.95	\$ 32.43	\$ 32.43	\$ 0.15	\$ 32.72
1/1/2023 12:00:00 AM	2/1/2023 12:00:00 AM	\$ 48.21	\$ 0.32	\$ 48.54	\$ 48.40	\$ 48.51	\$ 47.75	\$ 48.04	\$ 48.04	\$ 48.52	\$ 48.52	\$ 0.15	\$ 48.81
2/1/2023 12:00:00 AM	3/1/2023 12:00:00 AM	\$ 44.91	\$ 0.32	\$ 45.24	\$ 45.10	\$ 45.21	\$ 44.45	\$ 44.74	\$ 44.74	\$ 45.22	\$ 45.22	\$ 0.15	\$ 45.51
3/1/2023 12:00:00 AM	4/1/2023 12:00:00 AM	\$ 37.00	\$ 0.32	\$ 37.33	\$ 37.19	\$ 37.30	\$ 36.54	\$ 36.83	\$ 36.83	\$ 37.31	\$ 37.31	\$ 0.15	\$ 37.60
4/1/2023 12:00:00 AM	5/1/2023 12:00:00 AM	\$ 33.63	\$ 0.32	\$ 33.96	\$ 33.82	\$ 33.93	\$ 33.17	\$ 33.46	\$ 33.46	\$ 33.94	\$ 33.94	\$ 0.15	\$ 34.23
5/1/2023 12:00:00 AM	6/1/2023 12:00:00 AM	\$ 34.80	\$ 0.32	\$ 35.13	\$ 34.99	\$ 35.10	\$ 34.34	\$ 34.63	\$ 34.63	\$ 35.11	\$ 35.11	\$ 0.15	\$ 35.40
6/1/2023 12:00:00 AM	7/1/2023 12:00:00 AM	\$ 34.53	\$ 0.32	\$ 34.85	\$ 34.72	\$ 34.82	\$ 34.07	\$ 34.36	\$ 34.36	\$ 34.84	\$ 34.84	\$ 0.15	\$ 35.12
7/1/2023 12:00:00 AM	8/1/2023 12:00:00 AM	\$ 43.60	\$ 0.32	\$ 43.93	\$ 43.79	\$ 43.90	\$ 43.15	\$ 43.44	\$ 43.44	\$ 43.92	\$ 43.92	\$ 0.15	\$ 44.20
8/1/2023 12:00:00 AM	9/1/2023 12:00:00 AM	\$ 39.61	\$ 0.32	\$ 39.94	\$ 39.80	\$ 39.91	\$ 39.16	\$ 39.45	\$ 39.45	\$ 39.93	\$ 39.93	\$ 0.15	\$ 40.21
9/1/2023 12:00:00 AM	10/1/2023 12:00:00 AM	\$ 33.36	\$ 0.32	\$ 33.68	\$ 33.55	\$ 33.65	\$ 32.90	\$ 33.19	\$ 33.19	\$ 33.67	\$ 33.67	\$ 0.15	\$ 33.95
10/1/2023 12:00:00 AM	11/1/2023 12:00:00 AM	\$ 33.56	\$ 0.32	\$ 33.89	\$ 33.75	\$ 33.86	\$ 33.10	\$ 33.39	\$ 33.39	\$ 33.87	\$ 33.87	\$ 0.15	\$ 34.16



11/1/2023 12:00:00 AM	12/1/2023 12:00:00 AM	\$ 33.42	\$ 0.32	\$ 33.75	\$ 33.61	\$ 33.72	\$ 32.97	\$ 33.26	\$ 33.26	\$ 33.74	\$ 33.74	\$ 0.15	\$ 34.02
12/1/2023 12:00:00 AM	1/1/2024 12:00:00 AM	\$ 34.11	\$ 0.32	\$ 34.44	\$ 34.30	\$ 34.41	\$ 33.65	\$ 33.94	\$ 33.94	\$ 34.42	\$ 34.42	\$ 0.15	\$ 34.71
1/1/2024 12:00:00 AM	2/1/2024 12:00:00 AM	\$ 50.43	\$ 0.32	\$ 50.75	\$ 50.62	\$ 50.72	\$ 49.97	\$ 50.26	\$ 50.26	\$ 50.74	\$ 50.74	\$ 0.15	\$ 51.02
2/1/2024 12:00:00 AM	3/1/2024 12:00:00 AM	\$ 46.98	\$ 0.32	\$ 47.30	\$ 47.17	\$ 47.27	\$ 46.52	\$ 46.81	\$ 46.81	\$ 47.29	\$ 47.29	\$ 0.15	\$ 47.57
3/1/2024 12:00:00 AM	4/1/2024 12:00:00 AM	\$ 38.70	\$ 0.32	\$ 39.03	\$ 38.89	\$ 39.00	\$ 38.24	\$ 38.53	\$ 38.53	\$ 39.01	\$ 39.01	\$ 0.15	\$ 39.30
4/1/2024 12:00:00 AM	5/1/2024 12:00:00 AM	\$ 35.18	\$ 0.32	\$ 35.50	\$ 35.37	\$ 35.47	\$ 34.72	\$ 35.01	\$ 35.01	\$ 35.49	\$ 35.49	\$ 0.15	\$ 35.77
5/1/2024 12:00:00 AM	6/1/2024 12:00:00 AM	\$ 36.40	\$ 0.32	\$ 36.73	\$ 36.59	\$ 36.70	\$ 35.94	\$ 36.23	\$ 36.23	\$ 36.71	\$ 36.71	\$ 0.15	\$ 37.00
6/1/2024 12:00:00 AM	7/1/2024 12:00:00 AM	\$ 36.11	\$ 0.32	\$ 36.44	\$ 36.30	\$ 36.41	\$ 35.66	\$ 35.95	\$ 35.95	\$ 36.43	\$ 36.43	\$ 0.15	\$ 36.71
7/1/2024 12:00:00 AM	8/1/2024 12:00:00 AM	\$ 45.61	\$ 0.32	\$ 45.93	\$ 45.80	\$ 45.90	\$ 45.15	\$ 45.44	\$ 45.44	\$ 45.92	\$ 45.92	\$ 0.15	\$ 46.20
8/1/2024 12:00:00 AM	9/1/2024 12:00:00 AM	\$ 41.44	\$ 0.32	\$ 41.76	\$ 41.63	\$ 41.73	\$ 40.98	\$ 41.27	\$ 41.27	\$ 41.75	\$ 41.75	\$ 0.15	\$ 42.03
9/1/2024 12:00:00 AM	10/1/2024 12:00:00 AM	\$ 34.89	\$ 0.32	\$ 35.21	\$ 35.08	\$ 35.18	\$ 34.43	\$ 34.72	\$ 34.72	\$ 35.20	\$ 35.20	\$ 0.15	\$ 35.48
10/1/2024 12:00:00 AM	11/1/2024 12:00:00 AM	\$ 35.11	\$ 0.32	\$ 35.43	\$ 35.30	\$ 35.40	\$ 34.65	\$ 34.94	\$ 34.94	\$ 35.42	\$ 35.42	\$ 0.15	\$ 35.70
11/1/2024 12:00:00 AM	12/1/2024 12:00:00 AM	\$ 34.96	\$ 0.32	\$ 35.29	\$ 35.15	\$ 35.26	\$ 34.50	\$ 34.79	\$ 34.79	\$ 35.27	\$ 35.27	\$ 0.15	\$ 35.56
12/1/2024 12:00:00 AM	1/1/2025 12:00:00 AM	\$ 35.68	\$ 0.32	\$ 36.01	\$ 35.87	\$ 35.98	\$ 35.22	\$ 35.51	\$ 35.51	\$ 35.99	\$ 35.99	\$ 0.15	\$ 36.28
1/1/2025 12:00:00 AM	2/1/2025 12:00:00 AM	\$ 52.85	\$ 0.32	\$ 53.17	\$ 53.04	\$ 53.14	\$ 52.39	\$ 52.68	\$ 52.68	\$ 53.16	\$ 53.16	\$ 0.15	\$ 53.44
2/1/2025 12:00:00 AM	3/1/2025 12:00:00 AM	\$ 49.23	\$ 0.32	\$ 49.55	\$ 49.42	\$ 49.52	\$ 48.77	\$ 49.06	\$ 49.06	\$ 49.54	\$ 49.54	\$ 0.15	\$ 49.82
3/1/2025 12:00:00 AM	4/1/2025 12:00:00 AM	\$ 40.56	\$ 0.32	\$ 40.88	\$ 40.75	\$ 40.85	\$ 40.10	\$ 40.39	\$ 40.39	\$ 40.87	\$ 40.87	\$ 0.15	\$ 41.15
4/1/2025 12:00:00 AM	5/1/2025 12:00:00 AM	\$ 36.86	\$ 0.32	\$ 37.19	\$ 37.05	\$ 37.16	\$ 36.41	\$ 36.70	\$ 36.70	\$ 37.18	\$ 37.18	\$ 0.15	\$ 37.46
5/1/2025 12:00:00 AM	6/1/2025 12:00:00 AM	\$ 38.15	\$ 0.32	\$ 38.47	\$ 38.34	\$ 38.44	\$ 37.69	\$ 37.98	\$ 37.98	\$ 38.46	\$ 38.46	\$ 0.15	\$ 38.74
6/1/2025 12:00:00 AM	7/1/2025 12:00:00 AM	\$ 37.84	\$ 0.32	\$ 38.17	\$ 38.03	\$ 38.14	\$ 37.39	\$ 37.68	\$ 37.68	\$ 38.16	\$ 38.16	\$ 0.15	\$ 38.44
7/1/2025 12:00:00 AM	8/1/2025 12:00:00 AM	\$ 47.80	\$ 0.32	\$ 48.12	\$ 47.99	\$ 48.09	\$ 47.34	\$ 47.63	\$ 47.63	\$ 48.11	\$ 48.11	\$ 0.15	\$ 48.39
8/1/2025 12:00:00 AM	9/1/2025 12:00:00 AM	\$ 43.42	\$ 0.32	\$ 43.75	\$ 43.61	\$ 43.72	\$ 42.97	\$ 43.26	\$ 43.26	\$ 43.74	\$ 43.74	\$ 0.15	\$ 44.02
9/1/2025 12:00:00 AM	10/1/2025 12:00:00 AM	\$ 36.56	\$ 0.32	\$ 36.89	\$ 36.75	\$ 36.86	\$ 36.11	\$ 36.40	\$ 36.40	\$ 36.88	\$ 36.88	\$ 0.15	\$ 37.16
10/1/2025 12:00:00 AM	11/1/2025 12:00:00 AM	\$ 36.79	\$ 0.32	\$ 37.11	\$ 36.98	\$ 37.08	\$ 36.33	\$ 36.62	\$ 36.62	\$ 37.10	\$ 37.10	\$ 0.15	\$ 37.38
11/1/2025 12:00:00 AM	12/1/2025 12:00:00 AM	\$ 36.64	\$ 0.32	\$ 36.96	\$ 36.83	\$ 36.93	\$ 36.18	\$ 36.47	\$ 36.47	\$ 36.95	\$ 36.95	\$ 0.15	\$ 37.23
12/1/2025 12:00:00 AM	1/1/2026 12:00:00 AM	\$ 37.39	\$ 0.32	\$ 37.72	\$ 37.58	\$ 37.69	\$ 36.94	\$ 37.23	\$ 37.23	\$ 37.71	\$ 37.71	\$ 0.15	\$ 37.99
1/1/2026 12:00:00 AM	2/1/2026 12:00:00 AM	\$ 53.86	\$ 0.32	\$ 54.18	\$ 54.05	\$ 54.15	\$ 53.40	\$ 53.69	\$ 53.69	\$ 54.17	\$ 54.17	\$ 0.15	\$ 54.45
2/1/2026 12:00:00 AM	3/1/2026 12:00:00 AM	\$ 50.17	\$ 0.32	\$ 50.49	\$ 50.36	\$ 50.46	\$ 49.71	\$ 50.00	\$ 50.00	\$ 50.48	\$ 50.48	\$ 0.15	\$ 50.76
3/1/2026 12:00:00 AM	4/1/2026 12:00:00 AM	\$ 41.33	\$ 0.32	\$ 41.66	\$ 41.52	\$ 41.63	\$ 40.88	\$ 41.17	\$ 41.17	\$ 41.65	\$ 41.65	\$ 0.15	\$ 41.93
4/1/2026 12:00:00 AM	5/1/2026 12:00:00 AM	\$ 37.57	\$ 0.32	\$ 37.89	\$ 37.76	\$ 37.86	\$ 37.11	\$ 37.40	\$ 37.40	\$ 37.88	\$ 37.88	\$ 0.15	\$ 38.16
5/1/2026 12:00:00 AM	6/1/2026 12:00:00 AM	\$ 38.87	\$ 0.32	\$ 39.20	\$ 39.06	\$ 39.17	\$ 38.42	\$ 38.71	\$ 38.71	\$ 39.19	\$ 39.19	\$ 0.15	\$ 39.47
6/1/2026 12:00:00 AM	7/1/2026 12:00:00 AM	\$ 38.57	\$ 0.32	\$ 38.89	\$ 38.76	\$ 38.86	\$ 38.11	\$ 38.40	\$ 38.40	\$ 38.88	\$ 38.88	\$ 0.15	\$ 39.16
7/1/2026 12:00:00 AM	8/1/2026 12:00:00 AM	\$ 48.71	\$ 0.32	\$ 49.03	\$ 48.90	\$ 49.00	\$ 48.25	\$ 48.54	\$ 48.54	\$ 49.02	\$ 49.02	\$ 0.15	\$ 49.30
8/1/2026 12:00:00 AM	9/1/2026 12:00:00 AM	\$ 44.25	\$ 0.32	\$ 44.58	\$ 44.44	\$ 44.55	\$ 43.79	\$ 44.08	\$ 44.08	\$ 44.56	\$ 44.56	\$ 0.15	\$ 44.85
9/1/2026 12:00:00 AM	10/1/2026 12:00:00 AM	\$ 37.26	\$ 0.32	\$ 37.59	\$ 37.45	\$ 37.56	\$ 36.80	\$ 37.09	\$ 37.09	\$ 37.57	\$ 37.57	\$ 0.15	\$ 37.86
10/1/2026 12:00:00 AM	11/1/2026 12:00:00 AM	\$ 37.49	\$ 0.32	\$ 37.82	\$ 37.68	\$ 37.79	\$ 37.03	\$ 37.32	\$ 37.32	\$ 37.80	\$ 37.80	\$ 0.15	\$ 38.09
11/1/2026 12:00:00 AM	12/1/2026 12:00:00 AM	\$ 37.34	\$ 0.32	\$ 37.66	\$ 37.53	\$ 37.63	\$ 36.88	\$ 37.17	\$ 37.17	\$ 37.65	\$ 37.65	\$ 0.15	\$ 37.93
12/1/2026 12:00:00 AM	1/1/2027 12:00:00 AM	\$ 38.11	\$ 0.32	\$ 38.43	\$ 38.30	\$ 38.40	\$ 37.65	\$ 37.94	\$ 37.94	\$ 38.42	\$ 38.42	\$ 0.15	\$ 38.70
1/1/2027 12:00:00 AM	2/1/2027 12:00:00 AM	\$ 53.86	\$ 0.32	\$ 54.18	\$ 54.05	\$ 54.15	\$ 53.40	\$ 53.69	\$ 53.69	\$ 54.17	\$ 54.17	\$ 0.15	\$ 54.45
2/1/2027 12:00:00 AM	3/1/2027 12:00:00 AM	\$ 50.17	\$ 0.32	\$ 50.49	\$ 50.36	\$ 50.46	\$ 49.71	\$ 50.00	\$ 50.00	\$ 50.48	\$ 50.48	\$ 0.15	\$ 50.76
3/1/2027 12:00:00 AM	4/1/2027 12:00:00 AM	\$ 41.33	\$ 0.32	\$ 41.66	\$ 41.52	\$ 41.63	\$ 40.88	\$ 41.17	\$ 41.17	\$ 41.65	\$ 41.65	\$ 0.15	\$ 41.93
4/1/2027 12:00:00 AM	5/1/2027 12:00:00 AM	\$ 37.57	\$ 0.32	\$ 37.89	\$ 37.76	\$ 37.86	\$ 37.11	\$ 37.40	\$ 37.40	\$ 37.88	\$ 37.88	\$ 0.15	\$ 38.16
5/1/2027 12:00:00 AM	6/1/2027 12:00:00 AM	\$ 38.88	\$ 0.32	\$ 39.20	\$ 39.07	\$ 39.17	\$ 38.42	\$ 38.71	\$ 38.71	\$ 39.19	\$ 39.19	\$ 0.15	\$ 39.47
6/1/2027 12:00:00 AM	7/1/2027 12:00:00 AM	\$ 38.57	\$ 0.32	\$ 38.89	\$ 38.76	\$ 38.86	\$ 38.11	\$ 38.40	\$ 38.40	\$ 38.88	\$ 38.88	\$ 0.15	\$ 39.16
7/1/2027 12:00:00 AM	8/1/2027 12:00:00 AM	\$ 48.71	\$ 0.32	\$ 49.03	\$ 48.90	\$ 49.00	\$ 48.25	\$ 48.54	\$ 48.54	\$ 49.02	\$ 49.02	\$ 0.15	\$ 49.30
8/1/2027 12:00:00 AM	9/1/2027 12:00:00 AM	\$ 44.25	\$ 0.32	\$ 44.58	\$ 44.44	\$ 44.55	\$ 43.80	\$ 44.09	\$ 44.09	\$ 44.57	\$ 44.57	\$ 0.15	\$ 44.85
9/1/2027 12:00:00 AM	10/1/2027 12:00:00 AM	\$ 37.26	\$ 0.32	\$ 37.59	\$ 37.45	\$ 37.56	\$ 36.80	\$ 37.09	\$ 37.09	\$ 37.57	\$ 37.57	\$ 0.15	\$ 37.86



10/1/2027 12:00:00 AM	11/1/2027 12:00:00 AM	\$ 37.49	\$ 0.32	\$ 37.82	\$ 37.68	\$ 37.79	\$ 37.04	\$ 37.33	\$ 37.33	\$ 37.81	\$ 37.81	\$ 0.15	\$ 38.09
11/1/2027 12:00:00 AM	12/1/2027 12:00:00 AM	\$ 37.34	\$ 0.32	\$ 37.66	\$ 37.53	\$ 37.63	\$ 36.88	\$ 37.17	\$ 37.17	\$ 37.65	\$ 37.65	\$ 0.15	\$ 37.93
12/1/2027 12:00:00 AM	1/1/2028 12:00:00 AM	\$ 38.11	\$ 0.32	\$ 38.43	\$ 38.30	\$ 38.40	\$ 37.65	\$ 37.94	\$ 37.94	\$ 38.42	\$ 38.42	\$ 0.15	\$ 38.70
1/1/2028 12:00:00 AM	2/1/2028 12:00:00 AM	\$ 54.43	\$ 0.32	\$ 54.75	\$ 54.62	\$ 54.72	\$ 53.97	\$ 54.26	\$ 54.26	\$ 54.74	\$ 54.74	\$ 0.15	\$ 55.02
2/1/2028 12:00:00 AM	3/1/2028 12:00:00 AM	\$ 50.70	\$ 0.32	\$ 51.02	\$ 50.89	\$ 50.99	\$ 50.24	\$ 50.53	\$ 50.53	\$ 51.01	\$ 51.01	\$ 0.15	\$ 51.29
3/1/2028 12:00:00 AM	4/1/2028 12:00:00 AM	\$ 41.77	\$ 0.32	\$ 42.10	\$ 41.96	\$ 42.07	\$ 41.31	\$ 41.60	\$ 41.60	\$ 42.08	\$ 42.08	\$ 0.15	\$ 42.37
4/1/2028 12:00:00 AM	5/1/2028 12:00:00 AM	\$ 37.97	\$ 0.32	\$ 38.29	\$ 38.16	\$ 38.26	\$ 37.51	\$ 37.80	\$ 37.80	\$ 38.28	\$ 38.28	\$ 0.15	\$ 38.56
5/1/2028 12:00:00 AM	6/1/2028 12:00:00 AM	\$ 39.29	\$ 0.32	\$ 39.61	\$ 39.48	\$ 39.58	\$ 38.83	\$ 39.12	\$ 39.12	\$ 39.60	\$ 39.60	\$ 0.15	\$ 39.88
6/1/2028 12:00:00 AM	7/1/2028 12:00:00 AM	\$ 38.98	\$ 0.32	\$ 39.30	\$ 39.17	\$ 39.27	\$ 38.52	\$ 38.81	\$ 38.81	\$ 39.29	\$ 39.29	\$ 0.15	\$ 39.57
7/1/2028 12:00:00 AM	8/1/2028 12:00:00 AM	\$ 49.22	\$ 0.32	\$ 49.55	\$ 49.41	\$ 49.52	\$ 48.77	\$ 49.06	\$ 49.06	\$ 49.54	\$ 49.54	\$ 0.15	\$ 49.82
8/1/2028 12:00:00 AM	9/1/2028 12:00:00 AM	\$ 44.72	\$ 0.32	\$ 45.05	\$ 44.91	\$ 45.02	\$ 44.26	\$ 44.55	\$ 44.55	\$ 45.03	\$ 45.03	\$ 0.15	\$ 45.32
9/1/2028 12:00:00 AM	10/1/2028 12:00:00 AM	\$ 37.66	\$ 0.32	\$ 37.98	\$ 37.85	\$ 37.95	\$ 37.20	\$ 37.49	\$ 37.49	\$ 37.97	\$ 37.97	\$ 0.15	\$ 38.25
10/1/2028 12:00:00 AM	11/1/2028 12:00:00 AM	\$ 37.89	\$ 0.32	\$ 38.21	\$ 38.08	\$ 38.18	\$ 37.43	\$ 37.72	\$ 37.72	\$ 38.20	\$ 38.20	\$ 0.15	\$ 38.48
11/1/2028 12:00:00 AM	12/1/2028 12:00:00 AM	\$ 37.73	\$ 0.32	\$ 38.06	\$ 37.92	\$ 38.03	\$ 37.28	\$ 37.57	\$ 37.57	\$ 38.05	\$ 38.05	\$ 0.15	\$ 38.33
12/1/2028 12:00:00 AM	1/1/2029 12:00:00 AM	\$ 38.51	\$ 0.32	\$ 38.83	\$ 38.70	\$ 38.80	\$ 38.05	\$ 38.34	\$ 38.34	\$ 38.82	\$ 38.82	\$ 0.15	\$ 39.10
1/1/2029 12:00:00 AM	2/1/2029 12:00:00 AM	\$ 55.02	\$ 0.32	\$ 55.35	\$ 55.21	\$ 55.32	\$ 54.56	\$ 54.85	\$ 54.85	\$ 55.33	\$ 55.33	\$ 0.15	\$ 55.62
2/1/2029 12:00:00 AM	3/1/2029 12:00:00 AM	\$ 51.25	\$ 0.32	\$ 51.58	\$ 51.44	\$ 51.55	\$ 50.80	\$ 51.09	\$ 51.09	\$ 51.57	\$ 51.57	\$ 0.15	\$ 51.85
3/1/2029 12:00:00 AM	4/1/2029 12:00:00 AM	\$ 42.23	\$ 0.32	\$ 42.55	\$ 42.42	\$ 42.52	\$ 41.77	\$ 42.06	\$ 42.06	\$ 42.54	\$ 42.54	\$ 0.15	\$ 42.82
4/1/2029 12:00:00 AM	5/1/2029 12:00:00 AM	\$ 38.38	\$ 0.32	\$ 38.71	\$ 38.57	\$ 38.68	\$ 37.92	\$ 38.21	\$ 38.21	\$ 38.69	\$ 38.69	\$ 0.15	\$ 38.98
5/1/2029 12:00:00 AM	6/1/2029 12:00:00 AM	\$ 39.72	\$ 0.32	\$ 40.04	\$ 39.91	\$ 40.01	\$ 39.26	\$ 39.55	\$ 39.55	\$ 40.03	\$ 40.03	\$ 0.15	\$ 40.31
6/1/2029 12:00:00 AM	7/1/2029 12:00:00 AM	\$ 39.40	\$ 0.32	\$ 39.73	\$ 39.59	\$ 39.70	\$ 38.94	\$ 39.23	\$ 39.23	\$ 39.71	\$ 39.71	\$ 0.15	\$ 40.00
7/1/2029 12:00:00 AM	8/1/2029 12:00:00 AM	\$ 49.76	\$ 0.32	\$ 50.09	\$ 49.95	\$ 50.06	\$ 49.31	\$ 49.60	\$ 49.60	\$ 50.08	\$ 50.08	\$ 0.15	\$ 50.36
8/1/2029 12:00:00 AM	9/1/2029 12:00:00 AM	\$ 45.21	\$ 0.32	\$ 45.54	\$ 45.40	\$ 45.51	\$ 44.75	\$ 45.04	\$ 45.04	\$ 45.52	\$ 45.52	\$ 0.15	\$ 45.81
9/1/2029 12:00:00 AM	10/1/2029 12:00:00 AM	\$ 38.07	\$ 0.32	\$ 38.39	\$ 38.26	\$ 38.36	\$ 37.61	\$ 37.90	\$ 37.90	\$ 38.38	\$ 38.38	\$ 0.15	\$ 38.66
10/1/2029 12:00:00 AM	11/1/2029 12:00:00 AM	\$ 38.30	\$ 0.32	\$ 38.63	\$ 38.49	\$ 38.60	\$ 37.85	\$ 38.14	\$ 38.14	\$ 38.62	\$ 38.62	\$ 0.15	\$ 38.90
11/1/2029 12:00:00 AM	12/1/2029 12:00:00 AM	\$ 38.15	\$ 0.32	\$ 38.47	\$ 38.34	\$ 38.44	\$ 37.69	\$ 37.98	\$ 37.98	\$ 38.46	\$ 38.46	\$ 0.15	\$ 38.74
12/1/2029 12:00:00 AM	1/1/2030 12:00:00 AM	\$ 38.93	\$ 0.32	\$ 39.26	\$ 39.12	\$ 39.23	\$ 38.47	\$ 38.76	\$ 38.76	\$ 39.24	\$ 39.24	\$ 0.15	\$ 39.53
1/1/2030 12:00:00 AM	2/1/2030 12:00:00 AM	\$ 55.95	\$ 0.32	\$ 56.28	\$ 56.14	\$ 56.25	\$ 55.50	\$ 55.79	\$ 55.79	\$ 56.27	\$ 56.27	\$ 0.15	\$ 56.55
2/1/2030 12:00:00 AM	3/1/2030 12:00:00 AM	\$ 52.12	\$ 0.32	\$ 52.45	\$ 52.31	\$ 52.42	\$ 51.66	\$ 51.95	\$ 51.95	\$ 52.43	\$ 52.43	\$ 0.15	\$ 52.72
3/1/2030 12:00:00 AM	4/1/2030 12:00:00 AM	\$ 42.94	\$ 0.32	\$ 43.27	\$ 43.13	\$ 43.24	\$ 42.49	\$ 42.78	\$ 42.78	\$ 43.26	\$ 43.26	\$ 0.15	\$ 43.54
4/1/2030 12:00:00 AM	5/1/2030 12:00:00 AM	\$ 39.03	\$ 0.32	\$ 39.36	\$ 39.22	\$ 39.33	\$ 38.57	\$ 38.86	\$ 38.86	\$ 39.34	\$ 39.34	\$ 0.15	\$ 39.63
5/1/2030 12:00:00 AM	6/1/2030 12:00:00 AM	\$ 40.39	\$ 0.32	\$ 40.71	\$ 40.58	\$ 40.68	\$ 39.93	\$ 40.22	\$ 40.22	\$ 40.70	\$ 40.70	\$ 0.15	\$ 40.98
6/1/2030 12:00:00 AM	7/1/2030 12:00:00 AM	\$ 40.07	\$ 0.32	\$ 40.39	\$ 40.26	\$ 40.36	\$ 39.61	\$ 39.90	\$ 39.90	\$ 40.38	\$ 40.38	\$ 0.15	\$ 40.66
7/1/2030 12:00:00 AM	8/1/2030 12:00:00 AM	\$ 50.61	\$ 0.32	\$ 50.93	\$ 50.80	\$ 50.90	\$ 50.15	\$ 50.44	\$ 50.44	\$ 50.92	\$ 50.92	\$ 0.15	\$ 51.20
8/1/2030 12:00:00 AM	9/1/2030 12:00:00 AM	\$ 45.98	\$ 0.32	\$ 46.30	\$ 46.17	\$ 46.27	\$ 45.52	\$ 45.81	\$ 45.81	\$ 46.29	\$ 46.29	\$ 0.15	\$ 46.57
9/1/2030 12:00:00 AM	10/1/2030 12:00:00 AM	\$ 38.71	\$ 0.32	\$ 39.04	\$ 38.90	\$ 39.01	\$ 38.26	\$ 38.55	\$ 38.55	\$ 39.03	\$ 39.03	\$ 0.15	\$ 39.31
10/1/2030 12:00:00 AM	11/1/2030 12:00:00 AM	\$ 38.95	\$ 0.32	\$ 39.28	\$ 39.14	\$ 39.25	\$ 38.49	\$ 38.78	\$ 38.78	\$ 39.26	\$ 39.26	\$ 0.15	\$ 39.55
11/1/2030 12:00:00 AM	12/1/2030 12:00:00 AM	\$ 38.79	\$ 0.32	\$ 39.12	\$ 38.98	\$ 39.09	\$ 38.33	\$ 38.62	\$ 38.62	\$ 39.10	\$ 39.10	\$ 0.15	\$ 39.39
12/1/2030 12:00:00 AM	1/1/2031 12:00:00 AM	\$ 39.59	\$ 0.32	\$ 39.92	\$ 39.78	\$ 39.89	\$ 39.13	\$ 39.42	\$ 39.42	\$ 39.90	\$ 39.90	\$ 0.15	\$ 40.19
1/1/2031 12:00:00 AM	2/1/2031 12:00:00 AM	\$ 57.40	\$ 0.32	\$ 57.73	\$ 57.59	\$ 57.70	\$ 56.94	\$ 57.23	\$ 57.23	\$ 57.71	\$ 57.71	\$ 0.15	\$ 58.00
2/1/2031 12:00:00 AM	3/1/2031 12:00:00 AM	\$ 53.47	\$ 0.32	\$ 53.80	\$ 53.66	\$ 53.77	\$ 53.01	\$ 53.30	\$ 53.30	\$ 53.78	\$ 53.78	\$ 0.15	\$ 54.07
3/1/2031 12:00:00 AM	4/1/2031 12:00:00 AM	\$ 44.05	\$ 0.32	\$ 44.38	\$ 44.24	\$ 44.35	\$ 43.60	\$ 43.89	\$ 43.89	\$ 44.37	\$ 44.37	\$ 0.15	\$ 44.65
4/1/2031 12:00:00 AM	5/1/2031 12:00:00 AM	\$ 40.04	\$ 0.32	\$ 40.37	\$ 40.23	\$ 40.34	\$ 39.58	\$ 39.87	\$ 39.87	\$ 40.35	\$ 40.35	\$ 0.15	\$ 40.64
5/1/2031 12:00:00 AM	6/1/2031 12:00:00 AM	\$ 41.43	\$ 0.32	\$ 41.76	\$ 41.62	\$ 41.73	\$ 40.98	\$ 41.27	\$ 41.27	\$ 41.75	\$ 41.75	\$ 0.15	\$ 42.03
6/1/2031 12:00:00 AM	7/1/2031 12:00:00 AM	\$ 41.11	\$ 0.32	\$ 41.43	\$ 41.30	\$ 41.40	\$ 40.65	\$ 40.94	\$ 40.94	\$ 41.42	\$ 41.42	\$ 0.15	\$ 41.70
7/1/2031 12:00:00 AM	8/1/2031 12:00:00 AM	\$ 51.91	\$ 0.32	\$ 52.24	\$ 52.10	\$ 52.21	\$ 51.46	\$ 51.75	\$ 51.75	\$ 52.23	\$ 52.23	\$ 0.15	\$ 52.51
8/1/2031 12:00:00 AM	9/1/2031 12:00:00 AM	\$ 47.17	\$ 0.32	\$ 47.49	\$ 47.36	\$ 47.46	\$ 46.71	\$ 47.00	\$ 47.00	\$ 47.48	\$ 47.48	\$ 0.15	\$ 47.76



9/1/2031 12:00:00 AM	10/1/2031 12:00:00 AM	\$ 39.71	\$ 0.32	\$ 40.04	\$ 39.90	\$ 40.01	\$ 39.26	\$ 39.55	\$ 39.55	\$ 40.03	\$ 40.03	\$ 0.15	\$ 40.31
10/1/2031 12:00:00 AM	11/1/2031 12:00:00 AM	\$ 39.96	\$ 0.32	\$ 40.28	\$ 40.15	\$ 40.25	\$ 39.50	\$ 39.79	\$ 39.79	\$ 40.27	\$ 40.27	\$ 0.15	\$ 40.55
11/1/2031 12:00:00 AM	12/1/2031 12:00:00 AM	\$ 39.80	\$ 0.32	\$ 40.12	\$ 39.99	\$ 40.09	\$ 39.34	\$ 39.63	\$ 39.63	\$ 40.11	\$ 40.11	\$ 0.15	\$ 40.39
12/1/2031 12:00:00 AM	1/1/2032 12:00:00 AM	\$ 40.61	\$ 0.32	\$ 40.94	\$ 40.80	\$ 40.91	\$ 40.16	\$ 40.45	\$ 40.45	\$ 40.93	\$ 40.93	\$ 0.15	\$ 41.21
1/1/2032 12:00:00 AM	2/1/2032 12:00:00 AM	\$ 59.99	\$ 0.32	\$ 60.32	\$ 60.18	\$ 60.29	\$ 59.54	\$ 59.83	\$ 59.83	\$ 60.31	\$ 60.31	\$ 0.15	\$ 60.59
2/1/2032 12:00:00 AM	3/1/2032 12:00:00 AM	\$ 55.89	\$ 0.32	\$ 56.21	\$ 56.08	\$ 56.18	\$ 55.43	\$ 55.72	\$ 55.72	\$ 56.20	\$ 56.20	\$ 0.15	\$ 56.48
3/1/2032 12:00:00 AM	4/1/2032 12:00:00 AM	\$ 46.04	\$ 0.32	\$ 46.37	\$ 46.23	\$ 46.34	\$ 45.59	\$ 45.88	\$ 45.88	\$ 46.36	\$ 46.36	\$ 0.15	\$ 46.64
4/1/2032 12:00:00 AM	5/1/2032 12:00:00 AM	\$ 41.85	\$ 0.32	\$ 42.17	\$ 42.04	\$ 42.14	\$ 41.39	\$ 41.68	\$ 41.68	\$ 42.16	\$ 42.16	\$ 0.15	\$ 42.44
5/1/2032 12:00:00 AM	6/1/2032 12:00:00 AM	\$ 43.30	\$ 0.32	\$ 43.63	\$ 43.49	\$ 43.60	\$ 42.85	\$ 43.14	\$ 43.14	\$ 43.62	\$ 43.62	\$ 0.15	\$ 43.90
6/1/2032 12:00:00 AM	7/1/2032 12:00:00 AM	\$ 42.96	\$ 0.32	\$ 43.29	\$ 43.15	\$ 43.26	\$ 42.51	\$ 42.80	\$ 42.80	\$ 43.28	\$ 43.28	\$ 0.15	\$ 43.56
7/1/2032 12:00:00 AM	8/1/2032 12:00:00 AM	\$ 54.26	\$ 0.32	\$ 54.58	\$ 54.45	\$ 54.55	\$ 53.80	\$ 54.09	\$ 54.09	\$ 54.57	\$ 54.57	\$ 0.15	\$ 54.85
8/1/2032 12:00:00 AM	9/1/2032 12:00:00 AM	\$ 49.30	\$ 0.32	\$ 49.62	\$ 49.49	\$ 49.59	\$ 48.84	\$ 49.13	\$ 49.13	\$ 49.61	\$ 49.61	\$ 0.15	\$ 49.89
9/1/2032 12:00:00 AM	10/1/2032 12:00:00 AM	\$ 41.51	\$ 0.32	\$ 41.83	\$ 41.70	\$ 41.80	\$ 41.05	\$ 41.34	\$ 41.34	\$ 41.82	\$ 41.82	\$ 0.15	\$ 42.10
10/1/2032 12:00:00 AM	11/1/2032 12:00:00 AM	\$ 41.76	\$ 0.32	\$ 42.09	\$ 41.95	\$ 42.06	\$ 41.31	\$ 41.60	\$ 41.60	\$ 42.08	\$ 42.08	\$ 0.15	\$ 42.36
11/1/2032 12:00:00 AM	12/1/2032 12:00:00 AM	\$ 41.59	\$ 0.32	\$ 41.92	\$ 41.78	\$ 41.89	\$ 41.14	\$ 41.43	\$ 41.43	\$ 41.91	\$ 41.91	\$ 0.15	\$ 42.19
12/1/2032 12:00:00 AM	1/1/2033 12:00:00 AM	\$ 42.45	\$ 0.32	\$ 42.77	\$ 42.64	\$ 42.74	\$ 41.99	\$ 42.28	\$ 42.28	\$ 42.76	\$ 42.76	\$ 0.15	\$ 43.04
1/1/2033 12:00:00 AM	2/1/2033 12:00:00 AM	\$ 61.90	\$ 0.32	\$ 62.23	\$ 62.09	\$ 62.20	\$ 61.45	\$ 61.74	\$ 61.74	\$ 62.22	\$ 62.22	\$ 0.15	\$ 62.50
2/1/2033 12:00:00 AM	3/1/2033 12:00:00 AM	\$ 57.66	\$ 0.32	\$ 57.99	\$ 57.85	\$ 57.96	\$ 57.21	\$ 57.50	\$ 57.50	\$ 57.98	\$ 57.98	\$ 0.15	\$ 58.26
3/1/2033 12:00:00 AM	4/1/2033 12:00:00 AM	\$ 47.51	\$ 0.32	\$ 47.83	\$ 47.70	\$ 47.80	\$ 47.05	\$ 47.34	\$ 47.34	\$ 47.82	\$ 47.82	\$ 0.15	\$ 48.10
4/1/2033 12:00:00 AM	5/1/2033 12:00:00 AM	\$ 43.18	\$ 0.32	\$ 43.51	\$ 43.37	\$ 43.48	\$ 42.72	\$ 43.01	\$ 43.01	\$ 43.49	\$ 43.49	\$ 0.15	\$ 43.78
5/1/2033 12:00:00 AM	6/1/2033 12:00:00 AM	\$ 44.68	\$ 0.32	\$ 45.01	\$ 44.87	\$ 44.98	\$ 44.23	\$ 44.52	\$ 44.52	\$ 45.00	\$ 45.00	\$ 0.15	\$ 45.28
6/1/2033 12:00:00 AM	7/1/2033 12:00:00 AM	\$ 44.33	\$ 0.32	\$ 44.66	\$ 44.52	\$ 44.63	\$ 43.87	\$ 44.16	\$ 44.16	\$ 44.64	\$ 44.64	\$ 0.15	\$ 44.93
7/1/2033 12:00:00 AM	8/1/2033 12:00:00 AM	\$ 55.99	\$ 0.32	\$ 56.31	\$ 56.18	\$ 56.28	\$ 55.53	\$ 55.82	\$ 55.82	\$ 56.30	\$ 56.30	\$ 0.15	\$ 56.58
8/1/2033 12:00:00 AM	9/1/2033 12:00:00 AM	\$ 50.87	\$ 0.32	\$ 51.19	\$ 51.06	\$ 51.16	\$ 50.41	\$ 50.70	\$ 50.70	\$ 51.18	\$ 51.18	\$ 0.15	\$ 51.46
9/1/2033 12:00:00 AM	10/1/2033 12:00:00 AM	\$ 42.83	\$ 0.32	\$ 43.15	\$ 43.02	\$ 43.12	\$ 42.37	\$ 42.66	\$ 42.66	\$ 43.14	\$ 43.14	\$ 0.15	\$ 43.42
10/1/2033 12:00:00 AM	11/1/2033 12:00:00 AM	\$ 43.09	\$ 0.32	\$ 43.42	\$ 43.28	\$ 43.39	\$ 42.64	\$ 42.93	\$ 42.93	\$ 43.41	\$ 43.41	\$ 0.15	\$ 43.69
11/1/2033 12:00:00 AM	12/1/2033 12:00:00 AM	\$ 42.92	\$ 0.32	\$ 43.24	\$ 43.11	\$ 43.21	\$ 42.46	\$ 42.75	\$ 42.75	\$ 43.23	\$ 43.23	\$ 0.15	\$ 43.51
12/1/2033 12:00:00 AM	1/1/2034 12:00:00 AM	\$ 43.80	\$ 0.32	\$ 44.13	\$ 43.99	\$ 44.10	\$ 43.34	\$ 43.63	\$ 43.63	\$ 44.11	\$ 44.11	\$ 0.15	\$ 44.40
1/1/2034 12:00:00 AM	2/1/2034 12:00:00 AM	\$ 63.84	\$ 0.32	\$ 64.16	\$ 64.03	\$ 64.13	\$ 63.38	\$ 63.67	\$ 63.67	\$ 64.15	\$ 64.15	\$ 0.15	\$ 64.43
2/1/2034 12:00:00 AM	3/1/2034 12:00:00 AM	\$ 59.47	\$ 0.32	\$ 59.79	\$ 59.66	\$ 59.76	\$ 59.01	\$ 59.30	\$ 59.30	\$ 59.78	\$ 59.78	\$ 0.15	\$ 60.06
3/1/2034 12:00:00 AM	4/1/2034 12:00:00 AM	\$ 48.99	\$ 0.32	\$ 49.32	\$ 49.18	\$ 49.29	\$ 48.54	\$ 48.83	\$ 48.83	\$ 49.31	\$ 49.31	\$ 0.15	\$ 49.59
4/1/2034 12:00:00 AM	5/1/2034 12:00:00 AM	\$ 44.53	\$ 0.32	\$ 44.86	\$ 44.72	\$ 44.83	\$ 44.07	\$ 44.36	\$ 44.36	\$ 44.84	\$ 44.84	\$ 0.15	\$ 45.13
5/1/2034 12:00:00 AM	6/1/2034 12:00:00 AM	\$ 46.08	\$ 0.32	\$ 46.41	\$ 46.27	\$ 46.38	\$ 45.62	\$ 45.91	\$ 45.91	\$ 46.39	\$ 46.39	\$ 0.15	\$ 46.68
6/1/2034 12:00:00 AM	7/1/2034 12:00:00 AM	\$ 45.72	\$ 0.32	\$ 46.04	\$ 45.91	\$ 46.01	\$ 45.26	\$ 45.55	\$ 45.55	\$ 46.03	\$ 46.03	\$ 0.15	\$ 46.31
7/1/2034 12:00:00 AM	8/1/2034 12:00:00 AM	\$ 57.74	\$ 0.32	\$ 58.06	\$ 57.93	\$ 58.03	\$ 57.28	\$ 57.57	\$ 57.57	\$ 58.05	\$ 58.05	\$ 0.15	\$ 58.33
8/1/2034 12:00:00 AM	9/1/2034 12:00:00 AM	\$ 52.45	\$ 0.32	\$ 52.78	\$ 52.64	\$ 52.75	\$ 52.00	\$ 52.29	\$ 52.29	\$ 52.77	\$ 52.77	\$ 0.15	\$ 53.05
9/1/2034 12:00:00 AM	10/1/2034 12:00:00 AM	\$ 44.17	\$ 0.32	\$ 44.49	\$ 44.36	\$ 44.46	\$ 43.71	\$ 44.00	\$ 44.00	\$ 44.48	\$ 44.48	\$ 0.15	\$ 44.76
10/1/2034 12:00:00 AM	11/1/2034 12:00:00 AM	\$ 44.44	\$ 0.32	\$ 44.77	\$ 44.63	\$ 44.74	\$ 43.98	\$ 44.27	\$ 44.27	\$ 44.75	\$ 44.75	\$ 0.15	\$ 45.04
11/1/2034 12:00:00 AM	12/1/2034 12:00:00 AM	\$ 44.26	\$ 0.32	\$ 44.58	\$ 44.45	\$ 44.55	\$ 43.80	\$ 44.09	\$ 44.09	\$ 44.57	\$ 44.57	\$ 0.15	\$ 44.85
12/1/2034 12:00:00 AM	1/1/2035 12:00:00 AM	\$ 45.17	\$ 0.32	\$ 45.49	\$ 45.36	\$ 45.46	\$ 44.71	\$ 45.00	\$ 45.00	\$ 45.48	\$ 45.48	\$ 0.15	\$ 45.76
1/1/2035 12:00:00 AM	2/1/2035 12:00:00 AM	\$ 65.25	\$ 0.32	\$ 65.57	\$ 65.44	\$ 65.54	\$ 64.79	\$ 65.08	\$ 65.08	\$ 65.56	\$ 65.56	\$ 0.15	\$ 65.84
2/1/2035 12:00:00 AM	3/1/2035 12:00:00 AM	\$ 60.78	\$ 0.32	\$ 61.10	\$ 60.97	\$ 61.07	\$ 60.32	\$ 60.61	\$ 60.61	\$ 61.09	\$ 61.09	\$ 0.15	\$ 61.37
3/1/2035 12:00:00 AM	4/1/2035 12:00:00 AM	\$ 50.08	\$ 0.32	\$ 50.40	\$ 50.27	\$ 50.37	\$ 49.62	\$ 49.91	\$ 49.91	\$ 50.39	\$ 50.39	\$ 0.15	\$ 50.67
4/1/2035 12:00:00 AM	5/1/2035 12:00:00 AM	\$ 45.51	\$ 0.32	\$ 45.84	\$ 45.70	\$ 45.81	\$ 45.06	\$ 45.35	\$ 45.35	\$ 45.83	\$ 45.83	\$ 0.15	\$ 46.11
5/1/2035 12:00:00 AM	6/1/2035 12:00:00 AM	\$ 47.10	\$ 0.32	\$ 47.42	\$ 47.29	\$ 47.39	\$ 46.64	\$ 46.93	\$ 46.93	\$ 47.41	\$ 47.41	\$ 0.15	\$ 47.69
6/1/2035 12:00:00 AM	7/1/2035 12:00:00 AM	\$ 46.72	\$ 0.32	\$ 47.05	\$ 46.91	\$ 47.02	\$ 46.27	\$ 46.56	\$ 46.56	\$ 47.04	\$ 47.04	\$ 0.15	\$ 47.32
7/1/2035 12:00:00 AM	8/1/2035 12:00:00 AM	\$ 59.01	\$ 0.32	\$ 59.34	\$ 59.20	\$ 59.31	\$ 58.55	\$ 58.84	\$ 58.84	\$ 59.32	\$ 59.32	\$ 0.15	\$ 59.61



8/1/2035 12:00:00 AM	9/1/2035 12:00:00 AM	\$ 53.61	\$ 0.32	\$ 53.94	\$ 53.80	\$ 53.91	\$ 53.15	\$ 53.44	\$ 53.44	\$ 53.92	\$ 53.92	\$ 0.15	\$ 54.21
9/1/2035 12:00:00 AM	10/1/2035 12:00:00 AM	\$ 45.14	\$ 0.32	\$ 45.47	\$ 45.33	\$ 45.44	\$ 44.68	\$ 44.97	\$ 44.97	\$ 45.45	\$ 45.45	\$ 0.15	\$ 45.74
10/1/2035 12:00:00 AM	11/1/2035 12:00:00 AM	\$ 45.42	\$ 0.32	\$ 45.75	\$ 45.61	\$ 45.72	\$ 44.96	\$ 45.25	\$ 45.25	\$ 45.73	\$ 45.73	\$ 0.15	\$ 46.02
11/1/2035 12:00:00 AM	12/1/2035 12:00:00 AM	\$ 45.24	\$ 0.32	\$ 45.56	\$ 45.43	\$ 45.53	\$ 44.78	\$ 45.07	\$ 45.07	\$ 45.55	\$ 45.55	\$ 0.15	\$ 45.83
12/1/2035 12:00:00 AM	1/1/2036 12:00:00 AM	\$ 46.17	\$ 0.32	\$ 46.49	\$ 46.36	\$ 46.46	\$ 45.71	\$ 46.00	\$ 46.00	\$ 46.48	\$ 46.48	\$ 0.15	\$ 46.76
1/1/2036 12:00:00 AM	2/1/2036 12:00:00 AM	\$ 65.77	\$ 0.32	\$ 66.10	\$ 65.96	\$ 66.07	\$ 65.32	\$ 65.61	\$ 65.61	\$ 66.09	\$ 66.09	\$ 0.15	\$ 66.37
2/1/2036 12:00:00 AM	3/1/2036 12:00:00 AM	\$ 61.27	\$ 0.32	\$ 61.59	\$ 61.46	\$ 61.56	\$ 60.81	\$ 61.10	\$ 61.10	\$ 61.58	\$ 61.58	\$ 0.15	\$ 61.86
3/1/2036 12:00:00 AM	4/1/2036 12:00:00 AM	\$ 50.48	\$ 0.32	\$ 50.80	\$ 50.67	\$ 50.77	\$ 50.02	\$ 50.31	\$ 50.31	\$ 50.79	\$ 50.79	\$ 0.15	\$ 51.07
4/1/2036 12:00:00 AM	5/1/2036 12:00:00 AM	\$ 45.88	\$ 0.32	\$ 46.21	\$ 46.07	\$ 46.18	\$ 45.42	\$ 45.71	\$ 45.71	\$ 46.19	\$ 46.19	\$ 0.15	\$ 46.48
5/1/2036 12:00:00 AM	6/1/2036 12:00:00 AM	\$ 47.48	\$ 0.32	\$ 47.80	\$ 47.67	\$ 47.77	\$ 47.02	\$ 47.31	\$ 47.31	\$ 47.79	\$ 47.79	\$ 0.15	\$ 48.07
6/1/2036 12:00:00 AM	7/1/2036 12:00:00 AM	\$ 47.10	\$ 0.32	\$ 47.43	\$ 47.29	\$ 47.40	\$ 46.64	\$ 46.93	\$ 46.93	\$ 47.41	\$ 47.41	\$ 0.15	\$ 47.70
7/1/2036 12:00:00 AM	8/1/2036 12:00:00 AM	\$ 59.49	\$ 0.32	\$ 59.81	\$ 59.68	\$ 59.78	\$ 59.03	\$ 59.32	\$ 59.32	\$ 59.80	\$ 59.80	\$ 0.15	\$ 60.08
8/1/2036 12:00:00 AM	9/1/2036 12:00:00 AM	\$ 54.05	\$ 0.32	\$ 54.37	\$ 54.24	\$ 54.34	\$ 53.59	\$ 53.88	\$ 53.88	\$ 54.36	\$ 54.36	\$ 0.15	\$ 54.64
9/1/2036 12:00:00 AM	10/1/2036 12:00:00 AM	\$ 45.51	\$ 0.32	\$ 45.83	\$ 45.70	\$ 45.80	\$ 45.05	\$ 45.34	\$ 45.34	\$ 45.82	\$ 45.82	\$ 0.15	\$ 46.10
10/1/2036 12:00:00 AM	11/1/2036 12:00:00 AM	\$ 45.79	\$ 0.32	\$ 46.11	\$ 45.98	\$ 46.08	\$ 45.33	\$ 45.62	\$ 45.62	\$ 46.10	\$ 46.10	\$ 0.15	\$ 46.38
11/1/2036 12:00:00 AM	12/1/2036 12:00:00 AM	\$ 45.60	\$ 0.32	\$ 45.93	\$ 45.79	\$ 45.90	\$ 45.14	\$ 45.43	\$ 45.43	\$ 45.91	\$ 45.91	\$ 0.15	\$ 46.20
12/1/2036 12:00:00 AM	1/1/2037 12:00:00 AM	\$ 46.54	\$ 0.32	\$ 46.86	\$ 46.73	\$ 46.83	\$ 46.08	\$ 46.37	\$ 46.37	\$ 46.85	\$ 46.85	\$ 0.15	\$ 47.13
1/1/2037 12:00:00 AM	2/1/2037 12:00:00 AM	\$ 67.47	\$ 0.32	\$ 67.79	\$ 67.66	\$ 67.76	\$ 67.01	\$ 67.30	\$ 67.30	\$ 67.78	\$ 67.78	\$ 0.15	\$ 68.06
2/1/2037 12:00:00 AM	3/1/2037 12:00:00 AM	\$ 62.85	\$ 0.32	\$ 63.17	\$ 63.04	\$ 63.14	\$ 62.39	\$ 62.68	\$ 62.68	\$ 63.16	\$ 63.16	\$ 0.15	\$ 63.44
3/1/2037 12:00:00 AM	4/1/2037 12:00:00 AM	\$ 51.78	\$ 0.32	\$ 52.11	\$ 51.97	\$ 52.08	\$ 51.32	\$ 51.61	\$ 51.61	\$ 52.09	\$ 52.09	\$ 0.15	\$ 52.38
4/1/2037 12:00:00 AM	5/1/2037 12:00:00 AM	\$ 47.07	\$ 0.32	\$ 47.39	\$ 47.26	\$ 47.36	\$ 46.61	\$ 46.90	\$ 46.90	\$ 47.38	\$ 47.38	\$ 0.15	\$ 47.66
5/1/2037 12:00:00 AM	6/1/2037 12:00:00 AM	\$ 48.70	\$ 0.32	\$ 49.03	\$ 48.89	\$ 49.00	\$ 48.24	\$ 48.53	\$ 48.53	\$ 49.01	\$ 49.01	\$ 0.15	\$ 49.30
6/1/2037 12:00:00 AM	7/1/2037 12:00:00 AM	\$ 48.32	\$ 0.32	\$ 48.64	\$ 48.51	\$ 48.61	\$ 47.86	\$ 48.15	\$ 48.15	\$ 48.63	\$ 48.63	\$ 0.15	\$ 48.91
7/1/2037 12:00:00 AM	8/1/2037 12:00:00 AM	\$ 61.02	\$ 0.32	\$ 61.35	\$ 61.21	\$ 61.32	\$ 60.56	\$ 60.85	\$ 60.85	\$ 61.33	\$ 61.33	\$ 0.15	\$ 61.62
8/1/2037 12:00:00 AM	9/1/2037 12:00:00 AM	\$ 55.44	\$ 0.32	\$ 55.76	\$ 55.63	\$ 55.73	\$ 54.98	\$ 55.27	\$ 55.27	\$ 55.75	\$ 55.75	\$ 0.15	\$ 56.03
9/1/2037 12:00:00 AM	10/1/2037 12:00:00 AM	\$ 46.68	\$ 0.32	\$ 47.01	\$ 46.87	\$ 46.98	\$ 46.22	\$ 46.51	\$ 46.51	\$ 46.99	\$ 46.99	\$ 0.15	\$ 47.28
10/1/2037 12:00:00 AM	11/1/2037 12:00:00 AM	\$ 46.97	\$ 0.32	\$ 47.29	\$ 47.16	\$ 47.26	\$ 46.51	\$ 46.80	\$ 46.80	\$ 47.28	\$ 47.28	\$ 0.15	\$ 47.56
11/1/2037 12:00:00 AM	12/1/2037 12:00:00 AM	\$ 46.78	\$ 0.32	\$ 47.10	\$ 46.97	\$ 47.07	\$ 46.32	\$ 46.61	\$ 46.61	\$ 47.09	\$ 47.09	\$ 0.15	\$ 47.37
12/1/2037 12:00:00 AM	1/1/2038 12:00:00 AM	\$ 47.74	\$ 0.32	\$ 48.06	\$ 47.93	\$ 48.03	\$ 47.28	\$ 47.57	\$ 47.57	\$ 48.05	\$ 48.05	\$ 0.15	\$ 48.33
1/1/2038 12:00:00 AM	2/1/2038 12:00:00 AM	\$ 69.26	\$ 0.32	\$ 69.58	\$ 69.45	\$ 69.55	\$ 68.80	\$ 69.09	\$ 69.09	\$ 69.57	\$ 69.57	\$ 0.15	\$ 69.85
2/1/2038 12:00:00 AM	3/1/2038 12:00:00 AM	\$ 64.52	\$ 0.32	\$ 64.84	\$ 64.71	\$ 64.81	\$ 64.06	\$ 64.35	\$ 64.35	\$ 64.83	\$ 64.83	\$ 0.15	\$ 65.11
3/1/2038 12:00:00 AM	4/1/2038 12:00:00 AM	\$ 53.16	\$ 0.32	\$ 53.48	\$ 53.35	\$ 53.45	\$ 52.70	\$ 52.99	\$ 52.99	\$ 53.47	\$ 53.47	\$ 0.15	\$ 53.75
4/1/2038 12:00:00 AM	5/1/2038 12:00:00 AM	\$ 48.31	\$ 0.32	\$ 48.64	\$ 48.50	\$ 48.61	\$ 47.86	\$ 48.15	\$ 48.15	\$ 48.63	\$ 48.63	\$ 0.15	\$ 48.91
5/1/2038 12:00:00 AM	6/1/2038 12:00:00 AM	\$ 49.99	\$ 0.32	\$ 50.32	\$ 50.18	\$ 50.29	\$ 49.54	\$ 49.83	\$ 49.83	\$ 50.31	\$ 50.31	\$ 0.15	\$ 50.59
6/1/2038 12:00:00 AM	7/1/2038 12:00:00 AM	\$ 49.60	\$ 0.32	\$ 49.92	\$ 49.79	\$ 49.89	\$ 49.14	\$ 49.43	\$ 49.43	\$ 49.91	\$ 49.91	\$ 0.15	\$ 50.19
7/1/2038 12:00:00 AM	8/1/2038 12:00:00 AM	\$ 62.64	\$ 0.32	\$ 62.97	\$ 62.83	\$ 62.94	\$ 62.18	\$ 62.47	\$ 62.47	\$ 62.95	\$ 62.95	\$ 0.15	\$ 63.24
8/1/2038 12:00:00 AM	9/1/2038 12:00:00 AM	\$ 56.91	\$ 0.32	\$ 57.23	\$ 57.10	\$ 57.20	\$ 56.45	\$ 56.74	\$ 56.74	\$ 57.22	\$ 57.22	\$ 0.15	\$ 57.50
9/1/2038 12:00:00 AM	10/1/2038 12:00:00 AM	\$ 47.92	\$ 0.32	\$ 48.24	\$ 48.11	\$ 48.21	\$ 47.46	\$ 47.75	\$ 47.75	\$ 48.23	\$ 48.23	\$ 0.15	\$ 48.51
10/1/2038 12:00:00 AM	11/1/2038 12:00:00 AM	\$ 48.22	\$ 0.32	\$ 48.54	\$ 48.41	\$ 48.51	\$ 47.76	\$ 48.05	\$ 48.05	\$ 48.53	\$ 48.53	\$ 0.15	\$ 48.81
11/1/2038 12:00:00 AM	12/1/2038 12:00:00 AM	\$ 48.02	\$ 0.32	\$ 48.34	\$ 48.21	\$ 48.31	\$ 47.56	\$ 47.85	\$ 47.85	\$ 48.33	\$ 48.33	\$ 0.15	\$ 48.61
12/1/2038 12:00:00 AM	1/1/2039 12:00:00 AM	\$ 49.01	\$ 0.32	\$ 49.33	\$ 49.20	\$ 49.30	\$ 48.55	\$ 48.84	\$ 48.84	\$ 49.32	\$ 49.32	\$ 0.15	\$ 49.60
1/1/2039 12:00:00 AM	2/1/2039 12:00:00 AM	\$ 70.84	\$ 0.32	\$ 71.17	\$ 71.03	\$ 71.14	\$ 70.38	\$ 70.67	\$ 70.67	\$ 71.15	\$ 71.15	\$ 0.15	\$ 71.44
2/1/2039 12:00:00 AM	3/1/2039 12:00:00 AM	\$ 65.99	\$ 0.32	\$ 66.32	\$ 66.18	\$ 66.29	\$ 65.53	\$ 65.82	\$ 65.82	\$ 66.30	\$ 66.30	\$ 0.15	\$ 66.59
3/1/2039 12:00:00 AM	4/1/2039 12:00:00 AM	\$ 54.37	\$ 0.32	\$ 54.69	\$ 54.56	\$ 54.66	\$ 53.91	\$ 54.20	\$ 54.20	\$ 54.68	\$ 54.68	\$ 0.15	\$ 54.96
4/1/2039 12:00:00 AM	5/1/2039 12:00:00 AM	\$ 49.42	\$ 0.32	\$ 49.74	\$ 49.61	\$ 49.71	\$ 48.96	\$ 49.25	\$ 49.25	\$ 49.73	\$ 49.73	\$ 0.15	\$ 50.01
5/1/2039 12:00:00 AM	6/1/2039 12:00:00 AM	\$ 51.14	\$ 0.32	\$ 51.46	\$ 51.33	\$ 51.43	\$ 50.68	\$ 50.97	\$ 50.97	\$ 51.45	\$ 51.45	\$ 0.15	\$ 51.73
6/1/2039 12:00:00 AM	7/1/2039 12:00:00 AM	\$ 50.73	\$ 0.32	\$ 51.06	\$ 50.92	\$ 51.03	\$ 50.27	\$ 50.56	\$ 50.56	\$ 51.04	\$ 51.04	\$ 0.15	\$ 51.33



7/1/2039 12:00:00 AM	8/1/2039 12:00:00 AM	\$ 64.07	\$ 0.32	\$ 64.40	\$ 64.26	\$ 64.37	\$ 63.61	\$ 63.90	\$ 63.90	\$ 64.38	\$ 64.38	\$ 0.15	\$ 64.67
8/1/2039 12:00:00 AM	9/1/2039 12:00:00 AM	\$ 58.21	\$ 0.32	\$ 58.53	\$ 58.40	\$ 58.50	\$ 57.75	\$ 58.04	\$ 58.04	\$ 58.52	\$ 58.52	\$ 0.15	\$ 58.80
9/1/2039 12:00:00 AM	10/1/2039 12:00:00 AM	\$ 49.01	\$ 0.32	\$ 49.34	\$ 49.20	\$ 49.31	\$ 48.56	\$ 48.85	\$ 48.85	\$ 49.33	\$ 49.33	\$ 0.15	\$ 49.61
10/1/2039 12:00:00 AM	11/1/2039 12:00:00 AM	\$ 49.32	\$ 0.32	\$ 49.64	\$ 49.51	\$ 49.61	\$ 48.86	\$ 49.15	\$ 49.15	\$ 49.63	\$ 49.63	\$ 0.15	\$ 49.91
11/1/2039 12:00:00 AM	12/1/2039 12:00:00 AM	\$ 49.11	\$ 0.32	\$ 49.44	\$ 49.30	\$ 49.41	\$ 48.66	\$ 48.95	\$ 48.95	\$ 49.43	\$ 49.43	\$ 0.15	\$ 49.71
12/1/2039 12:00:00 AM	1/1/2040 12:00:00 AM	\$ 50.13	\$ 0.32	\$ 50.45	\$ 50.32	\$ 50.42	\$ 49.67	\$ 49.96	\$ 49.96	\$ 50.44	\$ 50.44	\$ 0.15	\$ 50.72
1/1/2040 12:00:00 AM	2/1/2040 12:00:00 AM	\$ 71.44	\$ 0.32	\$ 71.77	\$ 71.63	\$ 71.74	\$ 70.99	\$ 71.28	\$ 71.28	\$ 71.76	\$ 71.76	\$ 0.15	\$ 72.04
2/1/2040 12:00:00 AM	3/1/2040 12:00:00 AM	\$ 66.55	\$ 0.32	\$ 66.88	\$ 66.74	\$ 66.85	\$ 66.09	\$ 66.38	\$ 66.38	\$ 66.86	\$ 66.86	\$ 0.15	\$ 67.15
3/1/2040 12:00:00 AM	4/1/2040 12:00:00 AM	\$ 54.83	\$ 0.32	\$ 55.16	\$ 55.02	\$ 55.13	\$ 54.37	\$ 54.66	\$ 54.66	\$ 55.14	\$ 55.14	\$ 0.15	\$ 55.43
4/1/2040 12:00:00 AM	5/1/2040 12:00:00 AM	\$ 49.84	\$ 0.32	\$ 50.16	\$ 50.03	\$ 50.13	\$ 49.38	\$ 49.67	\$ 49.67	\$ 50.15	\$ 50.15	\$ 0.15	\$ 50.43
5/1/2040 12:00:00 AM	6/1/2040 12:00:00 AM	\$ 51.57	\$ 0.32	\$ 51.89	\$ 51.76	\$ 51.86	\$ 51.11	\$ 51.40	\$ 51.40	\$ 51.88	\$ 51.88	\$ 0.15	\$ 52.16
6/1/2040 12:00:00 AM	7/1/2040 12:00:00 AM	\$ 51.16	\$ 0.32	\$ 51.49	\$ 51.35	\$ 51.46	\$ 50.70	\$ 50.99	\$ 50.99	\$ 51.47	\$ 51.47	\$ 0.15	\$ 51.76
7/1/2040 12:00:00 AM	8/1/2040 12:00:00 AM	\$ 64.62	\$ 0.32	\$ 64.94	\$ 64.81	\$ 64.91	\$ 64.16	\$ 64.45	\$ 64.45	\$ 64.93	\$ 64.93	\$ 0.15	\$ 65.21
8/1/2040 12:00:00 AM	9/1/2040 12:00:00 AM	\$ 58.70	\$ 0.32	\$ 59.03	\$ 58.89	\$ 59.00	\$ 58.25	\$ 58.54	\$ 58.54	\$ 59.02	\$ 59.02	\$ 0.15	\$ 59.30
9/1/2040 12:00:00 AM	10/1/2040 12:00:00 AM	\$ 49.43	\$ 0.32	\$ 49.75	\$ 49.62	\$ 49.72	\$ 48.97	\$ 49.26	\$ 49.26	\$ 49.74	\$ 49.74	\$ 0.15	\$ 50.02
10/1/2040 12:00:00 AM	11/1/2040 12:00:00 AM	\$ 49.74	\$ 0.32	\$ 50.06	\$ 49.93	\$ 50.03	\$ 49.28	\$ 49.57	\$ 49.57	\$ 50.05	\$ 50.05	\$ 0.15	\$ 50.33
11/1/2040 12:00:00 AM	12/1/2040 12:00:00 AM	\$ 49.53	\$ 0.32	\$ 49.86	\$ 49.72	\$ 49.83	\$ 49.07	\$ 49.36	\$ 49.36	\$ 49.84	\$ 49.84	\$ 0.15	\$ 50.13
12/1/2040 12:00:00 AM	1/1/2041 12:00:00 AM	\$ 50.55	\$ 0.32	\$ 50.88	\$ 50.74	\$ 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		

DA Basis vs. North Hub 10-5-2016	
Location	
<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



STARTDATE	ENDDATE	SPP off pk	Aberdeen 1	Aberdeen 2	Beethoven	Big Stone	Coyote	Huron 1	Huron 2	Neal 4	Oak Tree	Titan	Load
1/1/2017 12:00:00 AM	2/1/2017 12:00:00 AM	\$ 25.25	\$ 25.58	\$ 25.58	\$ 25.44	\$ 25.55	\$ 24.79	\$ 25.08	\$ 25.08	\$ 25.56	\$ 25.56	\$ 25.41	\$ 25.85
2/1/2017 12:00:00 AM	3/1/2017 12:00:00 AM	\$ 22.00	\$ 22.33	\$ 22.33	\$ 22.19	\$ 22.30	\$ 21.54	\$ 21.83	\$ 21.83	\$ 22.31	\$ 22.31	\$ 22.16	\$ 22.60
3/1/2017 12:00:00 AM	4/1/2017 12:00:00 AM	\$ 17.90	\$ 18.23	\$ 18.23	\$ 18.09	\$ 18.20	\$ 17.44	\$ 17.73	\$ 17.73	\$ 18.21	\$ 18.21	\$ 18.06	\$ 18.50
4/1/2017 12:00:00 AM	5/1/2017 12:00:00 AM	\$ 14.00	\$ 14.33	\$ 14.33	\$ 14.19	\$ 14.30	\$ 13.54	\$ 13.83	\$ 13.83	\$ 14.31	\$ 14.31	\$ 14.16	\$ 14.60
5/1/2017 12:00:00 AM	6/1/2017 12:00:00 AM	\$ 15.95	\$ 16.28	\$ 16.28	\$ 16.14	\$ 16.25	\$ 15.49	\$ 15.78	\$ 15.78	\$ 16.26	\$ 16.26	\$ 16.11	\$ 16.55
6/1/2017 12:00:00 AM	7/1/2017 12:00:00 AM	\$ 15.55	\$ 15.88	\$ 15.88	\$ 15.74	\$ 15.85	\$ 15.09	\$ 15.38	\$ 15.38	\$ 15.86	\$ 15.86	\$ 15.71	\$ 16.15
7/1/2017 12:00:00 AM	8/1/2017 12:00:00 AM	\$ 17.85	\$ 18.18	\$ 18.18	\$ 18.04	\$ 18.15	\$ 17.39	\$ 17.68	\$ 17.68	\$ 18.16	\$ 18.16	\$ 18.01	\$ 18.45
8/1/2017 12:00:00 AM	9/1/2017 12:00:00 AM	\$ 15.55	\$ 15.88	\$ 15.88	\$ 15.74	\$ 15.85	\$ 15.09	\$ 15.38	\$ 15.38	\$ 15.86	\$ 15.86	\$ 15.71	\$ 16.15
9/1/2017 12:00:00 AM	10/1/2017 12:00:00 AM	\$ 16.10	\$ 16.43	\$ 16.43	\$ 16.29	\$ 16.40	\$ 15.64	\$ 15.93	\$ 15.93	\$ 16.41	\$ 16.41	\$ 16.26	\$ 16.70
10/1/2017 12:00:00 AM	11/1/2017 12:00:00 AM	\$ 17.05	\$ 17.38	\$ 17.38	\$ 17.24	\$ 17.35	\$ 16.59	\$ 16.88	\$ 16.88	\$ 17.36	\$ 17.36	\$ 17.21	\$ 17.65
11/1/2017 12:00:00 AM	12/1/2017 12:00:00 AM	\$ 16.30	\$ 16.63	\$ 16.63	\$ 16.49	\$ 16.60	\$ 15.84	\$ 16.13	\$ 16.13	\$ 16.61	\$ 16.61	\$ 16.46	\$ 16.90
12/1/2017 12:00:00 AM	1/1/2018 12:00:00 AM	\$ 19.95	\$ 20.28	\$ 20.28	\$ 20.14	\$ 20.25	\$ 19.49	\$ 19.78	\$ 19.78	\$ 20.26	\$ 20.26	\$ 20.11	\$ 20.55
1/1/2018 12:00:00 AM	2/1/2018 12:00:00 AM	\$ 26.45	\$ 26.78	\$ 26.78	\$ 26.64	\$ 26.75	\$ 25.99	\$ 26.28	\$ 26.28	\$ 26.76	\$ 26.76	\$ 26.61	\$ 27.05
2/1/2018 12:00:00 AM	3/1/2018 12:00:00 AM	\$ 24.10	\$ 24.43	\$ 24.43	\$ 24.29	\$ 24.40	\$ 23.64	\$ 23.93	\$ 23.93	\$ 24.41	\$ 24.41	\$ 24.26	\$ 24.70
3/1/2018 12:00:00 AM	4/1/2018 12:00:00 AM	\$ 19.55	\$ 19.88	\$ 19.88	\$ 19.74	\$ 19.85	\$ 19.09	\$ 19.38	\$ 19.38	\$ 19.86	\$ 19.86	\$ 19.71	\$ 20.15
4/1/2018 12:00:00 AM	5/1/2018 12:00:00 AM	\$ 18.45	\$ 18.78	\$ 18.78	\$ 18.64	\$ 18.75	\$ 17.99	\$ 18.28	\$ 18.28	\$ 18.76	\$ 18.76	\$ 18.61	\$ 19.05
5/1/2018 12:00:00 AM	6/1/2018 12:00:00 AM	\$ 14.55	\$ 14.88	\$ 14.88	\$ 14.74	\$ 14.85	\$ 14.09	\$ 14.38	\$ 14.38	\$ 14.86	\$ 14.86	\$ 14.71	\$ 15.15
6/1/2018 12:00:00 AM	7/1/2018 12:00:00 AM	\$ 15.20	\$ 15.53	\$ 15.53	\$ 15.39	\$ 15.50	\$ 14.74	\$ 15.03	\$ 15.03	\$ 15.51	\$ 15.51	\$ 15.36	\$ 15.80
7/1/2018 12:00:00 AM	8/1/2018 12:00:00 AM	\$ 16.85	\$ 17.18	\$ 17.18	\$ 17.04	\$ 17.15	\$ 16.39	\$ 16.68	\$ 16.68	\$ 17.16	\$ 17.16	\$ 17.01	\$ 17.45
8/1/2018 12:00:00 AM	9/1/2018 12:00:00 AM	\$ 16.50	\$ 16.83	\$ 16.83	\$ 16.69	\$ 16.80	\$ 16.04	\$ 16.33	\$ 16.33	\$ 16.81	\$ 16.81	\$ 16.66	\$ 17.10
9/1/2018 12:00:00 AM	10/1/2018 12:00:00 AM	\$ 14.50	\$ 14.83	\$ 14.83	\$ 14.69	\$ 14.80	\$ 14.04	\$ 14.33	\$ 14.33	\$ 14.81	\$ 14.81	\$ 14.66	\$ 15.10
10/1/2018 12:00:00 AM	11/1/2018 12:00:00 AM	\$ 16.10	\$ 16.43	\$ 16.43	\$ 16.29	\$ 16.40	\$ 15.64	\$ 15.93	\$ 15.93	\$ 16.41	\$ 16.41	\$ 16.26	\$ 16.70
11/1/2018 12:00:00 AM	12/1/2018 12:00:00 AM	\$ 16.95	\$ 17.28	\$ 17.28	\$ 17.14	\$ 17.25	\$ 16.49	\$ 16.78	\$ 16.78	\$ 17.26	\$ 17.26	\$ 17.11	\$ 17.55
12/1/2018 12:00:00 AM	1/1/2019 12:00:00 AM	\$ 17.70	\$ 18.03	\$ 18.03	\$ 17.89	\$ 18.00	\$ 17.24	\$ 17.53	\$ 17.53	\$ 18.01	\$ 18.01	\$ 17.86	\$ 18.30
1/1/2019 12:00:00 AM	2/1/2019 12:00:00 AM	\$ 28.93	\$ 29.25	\$ 29.25	\$ 29.12	\$ 29.22	\$ 28.47	\$ 28.76	\$ 28.76	\$ 29.24	\$ 29.24	\$ 29.08	\$ 29.52
2/1/2019 12:00:00 AM	3/1/2019 12:00:00 AM	\$ 26.36	\$ 26.68	\$ 26.68	\$ 26.55	\$ 26.65	\$ 25.90	\$ 26.19	\$ 26.19	\$ 26.67	\$ 26.67	\$ 26.51	\$ 26.95
3/1/2019 12:00:00 AM	4/1/2019 12:00:00 AM	\$ 21.38	\$ 21.70	\$ 21.70	\$ 21.57	\$ 21.67	\$ 20.92	\$ 21.21	\$ 21.21	\$ 21.69	\$ 21.69	\$ 21.53	\$ 21.97
4/1/2019 12:00:00 AM	5/1/2019 12:00:00 AM	\$ 20.18	\$ 20.50	\$ 20.50	\$ 20.37	\$ 20.47	\$ 19.72	\$ 20.01	\$ 20.01	\$ 20.49	\$ 20.49	\$ 20.33	\$ 20.77
5/1/2019 12:00:00 AM	6/1/2019 12:00:00 AM	\$ 15.91	\$ 16.24	\$ 16.24	\$ 16.10	\$ 16.21	\$ 15.45	\$ 15.74	\$ 15.74	\$ 16.22	\$ 16.22	\$ 16.07	\$ 16.51
6/1/2019 12:00:00 AM	7/1/2019 12:00:00 AM	\$ 16.62	\$ 16.95	\$ 16.95	\$ 16.81	\$ 16.92	\$ 16.17	\$ 16.46	\$ 16.46	\$ 16.94	\$ 16.94	\$ 16.78	\$ 17.22
7/1/2019 12:00:00 AM	8/1/2019 12:00:00 AM	\$ 18.43	\$ 18.75	\$ 18.75	\$ 18.62	\$ 18.72	\$ 17.97	\$ 18.26	\$ 18.26	\$ 18.74	\$ 18.74	\$ 18.58	\$ 19.02
8/1/2019 12:00:00 AM	9/1/2019 12:00:00 AM	\$ 18.04	\$ 18.37	\$ 18.37	\$ 18.23	\$ 18.34	\$ 17.59	\$ 17.88	\$ 17.88	\$ 18.36	\$ 18.36	\$ 18.20	\$ 18.64
9/1/2019 12:00:00 AM	10/1/2019 12:00:00 AM	\$ 15.86	\$ 16.18	\$ 16.18	\$ 16.05	\$ 16.15	\$ 15.40	\$ 15.69	\$ 15.69	\$ 16.17	\$ 16.17	\$ 16.01	\$ 16.45
10/1/2019 12:00:00 AM	11/1/2019 12:00:00 AM	\$ 17.61	\$ 17.93	\$ 17.93	\$ 17.80	\$ 17.90	\$ 17.15	\$ 17.44	\$ 17.44	\$ 17.92	\$ 17.92	\$ 17.76	\$ 18.20
11/1/2019 12:00:00 AM	12/1/2019 12:00:00 AM	\$ 18.54	\$ 18.86	\$ 18.86	\$ 18.73	\$ 18.83	\$ 18.08	\$ 18.37	\$ 18.37	\$ 18.85	\$ 18.85	\$ 18.69	\$ 19.13



12/1/2019 12:00:00 AM	1/1/2020 12:00:00 AM	\$ 19.36	\$ 19.68	\$ 19.68	\$ 19.55	\$ 19.65	\$ 18.90	\$ 19.19	\$ 19.19	\$ 19.67	\$ 19.67	\$ 19.51	\$ 19.95
1/1/2020 12:00:00 AM	2/1/2020 12:00:00 AM	\$ 31.52	\$ 31.85	\$ 31.85	\$ 31.71	\$ 31.82	\$ 31.07	\$ 31.36	\$ 31.36	\$ 31.84	\$ 31.84	\$ 31.68	\$ 32.12
2/1/2020 12:00:00 AM	3/1/2020 12:00:00 AM	\$ 28.72	\$ 29.05	\$ 29.05	\$ 28.91	\$ 29.02	\$ 28.27	\$ 28.56	\$ 28.56	\$ 29.04	\$ 29.04	\$ 28.88	\$ 29.32
3/1/2020 12:00:00 AM	4/1/2020 12:00:00 AM	\$ 23.30	\$ 23.63	\$ 23.63	\$ 23.49	\$ 23.60	\$ 22.84	\$ 23.13	\$ 23.13	\$ 23.61	\$ 23.61	\$ 23.46	\$ 23.90
4/1/2020 12:00:00 AM	5/1/2020 12:00:00 AM	\$ 21.99	\$ 22.31	\$ 22.31	\$ 22.18	\$ 22.28	\$ 21.53	\$ 21.82	\$ 21.82	\$ 22.30	\$ 22.30	\$ 22.14	\$ 22.58
5/1/2020 12:00:00 AM	6/1/2020 12:00:00 AM	\$ 17.34	\$ 17.67	\$ 17.67	\$ 17.53	\$ 17.64	\$ 16.88	\$ 17.17	\$ 17.17	\$ 17.65	\$ 17.65	\$ 17.50	\$ 17.94
6/1/2020 12:00:00 AM	7/1/2020 12:00:00 AM	\$ 18.12	\$ 18.44	\$ 18.44	\$ 18.31	\$ 18.41	\$ 17.66	\$ 17.95	\$ 17.95	\$ 18.43	\$ 18.43	\$ 18.27	\$ 18.71
7/1/2020 12:00:00 AM	8/1/2020 12:00:00 AM	\$ 20.08	\$ 20.41	\$ 20.41	\$ 20.27	\$ 20.38	\$ 19.62	\$ 19.91	\$ 19.91	\$ 20.39	\$ 20.39	\$ 20.24	\$ 20.68
8/1/2020 12:00:00 AM	9/1/2020 12:00:00 AM	\$ 19.67	\$ 19.99	\$ 19.99	\$ 19.86	\$ 19.96	\$ 19.21	\$ 19.50	\$ 19.50	\$ 19.98	\$ 19.98	\$ 19.82	\$ 20.26
9/1/2020 12:00:00 AM	10/1/2020 12:00:00 AM	\$ 17.28	\$ 17.61	\$ 17.61	\$ 17.47	\$ 17.58	\$ 16.82	\$ 17.11	\$ 17.11	\$ 17.59	\$ 17.59	\$ 17.44	\$ 17.88
10/1/2020 12:00:00 AM	11/1/2020 12:00:00 AM	\$ 19.19	\$ 19.51	\$ 19.51	\$ 19.38	\$ 19.48	\$ 18.73	\$ 19.02	\$ 19.02	\$ 19.50	\$ 19.50	\$ 19.34	\$ 19.78
11/1/2020 12:00:00 AM	12/1/2020 12:00:00 AM	\$ 20.20	\$ 20.53	\$ 20.53	\$ 20.39	\$ 20.50	\$ 19.74	\$ 20.03	\$ 20.03	\$ 20.51	\$ 20.51	\$ 20.36	\$ 20.80
12/1/2020 12:00:00 AM	1/1/2021 12:00:00 AM	\$ 21.10	\$ 21.42	\$ 21.42	\$ 21.29	\$ 21.39	\$ 20.64	\$ 20.93	\$ 20.93	\$ 21.41	\$ 21.41	\$ 21.25	\$ 21.69
1/1/2021 12:00:00 AM	2/1/2021 12:00:00 AM	\$ 33.08	\$ 33.41	\$ 33.41	\$ 33.27	\$ 33.38	\$ 32.63	\$ 32.92	\$ 32.92	\$ 33.40	\$ 33.40	\$ 33.24	\$ 33.68
2/1/2021 12:00:00 AM	3/1/2021 12:00:00 AM	\$ 30.14	\$ 30.47	\$ 30.47	\$ 30.33	\$ 30.44	\$ 29.69	\$ 29.98	\$ 29.98	\$ 30.46	\$ 30.46	\$ 30.30	\$ 30.74
3/1/2021 12:00:00 AM	4/1/2021 12:00:00 AM	\$ 24.45	\$ 24.78	\$ 24.78	\$ 24.64	\$ 24.75	\$ 23.99	\$ 24.28	\$ 24.28	\$ 24.76	\$ 24.76	\$ 24.61	\$ 25.05
4/1/2021 12:00:00 AM	5/1/2021 12:00:00 AM	\$ 23.08	\$ 23.40	\$ 23.40	\$ 23.27	\$ 23.37	\$ 22.62	\$ 22.91	\$ 22.91	\$ 23.39	\$ 23.39	\$ 23.23	\$ 23.67
5/1/2021 12:00:00 AM	6/1/2021 12:00:00 AM	\$ 18.20	\$ 18.52	\$ 18.52	\$ 18.39	\$ 18.49	\$ 17.74	\$ 18.03	\$ 18.03	\$ 18.51	\$ 18.51	\$ 18.35	\$ 18.79
6/1/2021 12:00:00 AM	7/1/2021 12:00:00 AM	\$ 19.01	\$ 19.34	\$ 19.34	\$ 19.20	\$ 19.31	\$ 18.55	\$ 18.84	\$ 18.84	\$ 19.32	\$ 19.32	\$ 19.17	\$ 19.61
7/1/2021 12:00:00 AM	8/1/2021 12:00:00 AM	\$ 21.08	\$ 21.40	\$ 21.40	\$ 21.27	\$ 21.37	\$ 20.62	\$ 20.91	\$ 20.91	\$ 21.39	\$ 21.39	\$ 21.23	\$ 21.67
8/1/2021 12:00:00 AM	9/1/2021 12:00:00 AM	\$ 20.64	\$ 20.96	\$ 20.96	\$ 20.83	\$ 20.93	\$ 20.18	\$ 20.47	\$ 20.47	\$ 20.95	\$ 20.95	\$ 20.79	\$ 21.23
9/1/2021 12:00:00 AM	10/1/2021 12:00:00 AM	\$ 18.14	\$ 18.46	\$ 18.46	\$ 18.33	\$ 18.43	\$ 17.68	\$ 17.97	\$ 17.97	\$ 18.45	\$ 18.45	\$ 18.29	\$ 18.73
10/1/2021 12:00:00 AM	11/1/2021 12:00:00 AM	\$ 20.14	\$ 20.46	\$ 20.46	\$ 20.33	\$ 20.43	\$ 19.68	\$ 19.97	\$ 19.97	\$ 20.45	\$ 20.45	\$ 20.29	\$ 20.73
11/1/2021 12:00:00 AM	12/1/2021 12:00:00 AM	\$ 21.20	\$ 21.53	\$ 21.53	\$ 21.39	\$ 21.50	\$ 20.74	\$ 21.03	\$ 21.03	\$ 21.51	\$ 21.51	\$ 21.36	\$ 21.80
12/1/2021 12:00:00 AM	1/1/2022 12:00:00 AM	\$ 22.14	\$ 22.46	\$ 22.46	\$ 22.33	\$ 22.43	\$ 21.68	\$ 21.97	\$ 21.97	\$ 22.45	\$ 22.45	\$ 22.29	\$ 22.73
1/1/2022 12:00:00 AM	2/1/2022 12:00:00 AM	\$ 34.26	\$ 34.58	\$ 34.58	\$ 34.45	\$ 34.55	\$ 33.80	\$ 34.09	\$ 34.09	\$ 34.57	\$ 34.57	\$ 34.41	\$ 34.85
2/1/2022 12:00:00 AM	3/1/2022 12:00:00 AM	\$ 31.21	\$ 31.54	\$ 31.54	\$ 31.40	\$ 31.51	\$ 30.76	\$ 31.05	\$ 31.05	\$ 31.53	\$ 31.53	\$ 31.37	\$ 31.81
3/1/2022 12:00:00 AM	4/1/2022 12:00:00 AM	\$ 25.32	\$ 25.65	\$ 25.65	\$ 25.51	\$ 25.62	\$ 24.86	\$ 25.15	\$ 25.15	\$ 25.63	\$ 25.63	\$ 25.48	\$ 25.92
4/1/2022 12:00:00 AM	5/1/2022 12:00:00 AM	\$ 23.90	\$ 24.22	\$ 24.22	\$ 24.09	\$ 24.19	\$ 23.44	\$ 23.73	\$ 23.73	\$ 24.21	\$ 24.21	\$ 24.05	\$ 24.49
5/1/2022 12:00:00 AM	6/1/2022 12:00:00 AM	\$ 18.85	\$ 19.17	\$ 19.17	\$ 19.04	\$ 19.14	\$ 18.39	\$ 18.68	\$ 18.68	\$ 19.16	\$ 19.16	\$ 19.00	\$ 19.44
6/1/2022 12:00:00 AM	7/1/2022 12:00:00 AM	\$ 19.69	\$ 20.01	\$ 20.01	\$ 19.88	\$ 19.98	\$ 19.23	\$ 19.52	\$ 19.52	\$ 20.00	\$ 20.00	\$ 19.84	\$ 20.28
7/1/2022 12:00:00 AM	8/1/2022 12:00:00 AM	\$ 21.82	\$ 22.15	\$ 22.15	\$ 22.01	\$ 22.12	\$ 21.37	\$ 21.66	\$ 21.66	\$ 22.14	\$ 22.14	\$ 21.98	\$ 22.42
8/1/2022 12:00:00 AM	9/1/2022 12:00:00 AM	\$ 21.37	\$ 21.70	\$ 21.70	\$ 21.56	\$ 21.67	\$ 20.91	\$ 21.20	\$ 21.20	\$ 21.68	\$ 21.68	\$ 21.53	\$ 21.97
9/1/2022 12:00:00 AM	10/1/2022 12:00:00 AM	\$ 18.78	\$ 19.11	\$ 19.11	\$ 18.97	\$ 19.08	\$ 18.32	\$ 18.61	\$ 18.61	\$ 19.09	\$ 19.09	\$ 18.94	\$ 19.38
10/1/2022 12:00:00 AM	11/1/2022 12:00:00 AM	\$ 20.85	\$ 21.18	\$ 21.18	\$ 21.04	\$ 21.15	\$ 20.40	\$ 20.69	\$ 20.69	\$ 21.17	\$ 21.17	\$ 21.01	\$ 21.45
11/1/2022 12:00:00 AM	12/1/2022 12:00:00 AM	\$ 21.95	\$ 22.28	\$ 22.28	\$ 22.14	\$ 22.25	\$ 21.50	\$ 21.79	\$ 21.79	\$ 22.27	\$ 22.27	\$ 22.11	\$ 22.55
12/1/2022 12:00:00 AM	1/1/2023 12:00:00 AM	\$ 22.92	\$ 23.25	\$ 23.25	\$ 23.11	\$ 23.22	\$ 22.47	\$ 22.76	\$ 22.76	\$ 23.24	\$ 23.24	\$ 23.08	\$ 23.52
1/1/2023 12:00:00 AM	2/1/2023 12:00:00 AM	\$ 36.38	\$ 36.71	\$ 36.71	\$ 36.57	\$ 36.68	\$ 35.92	\$ 36.21	\$ 36.21	\$ 36.69	\$ 36.69	\$ 36.54	\$ 36.98
2/1/2023 12:00:00 AM	3/1/2023 12:00:00 AM	\$ 33.15	\$ 33.47	\$ 33.47	\$ 33.34	\$ 33.44	\$ 32.69	\$ 32.98	\$ 32.98	\$ 33.46	\$ 33.46	\$ 33.30	\$ 33.74
3/1/2023 12:00:00 AM	4/1/2023 12:00:00 AM	\$ 26.89	\$ 27.22	\$ 27.22	\$ 27.08	\$ 27.19	\$ 26.43	\$ 26.72	\$ 26.72	\$ 27.20	\$ 27.20	\$ 27.05	\$ 27.49
4/1/2023 12:00:00 AM	5/1/2023 12:00:00 AM	\$ 25.38	\$ 25.70	\$ 25.70	\$ 25.57	\$ 25.67	\$ 24.92	\$ 25.21	\$ 25.21	\$ 25.69	\$ 25.69	\$ 25.53	\$ 25.97
5/1/2023 12:00:00 AM	6/1/2023 12:00:00 AM	\$ 20.01	\$ 20.34	\$ 20.34	\$ 20.20	\$ 20.31	\$ 19.56	\$ 19.85	\$ 19.85	\$ 20.33	\$ 20.33	\$ 20.17	\$ 20.61
6/1/2023 12:00:00 AM	7/1/2023 12:00:00 AM	\$ 20.91	\$ 21.23	\$ 21.23	\$ 21.10	\$ 21.20	\$ 20.45	\$ 20.74	\$ 20.74	\$ 21.22	\$ 21.22	\$ 21.06	\$ 21.50
7/1/2023 12:00:00 AM	8/1/2023 12:00:00 AM	\$ 23.18	\$ 23.50	\$ 23.50	\$ 23.37	\$ 23.47	\$ 22.72	\$ 23.01	\$ 23.01	\$ 23.49	\$ 23.49	\$ 23.33	\$ 23.77
8/1/2023 12:00:00 AM	9/1/2023 12:00:00 AM	\$ 22.70	\$ 23.02	\$ 23.02	\$ 22.89	\$ 22.99	\$ 22.24	\$ 22.53	\$ 22.53	\$ 23.01	\$ 23.01	\$ 22.85	\$ 23.29
9/1/2023 12:00:00 AM	10/1/2023 12:00:00 AM	\$ 19.94	\$ 20.27	\$ 20.27	\$ 20.13	\$ 20.24	\$ 19.49	\$ 19.78	\$ 19.78	\$ 20.26	\$ 20.26	\$ 20.10	\$ 20.54
10/1/2023 12:00:00 AM	11/1/2023 12:00:00 AM	\$ 22.15	\$ 22.47	\$ 22.47	\$ 22.34	\$ 22.44	\$ 21.69	\$ 21.98	\$ 21.98	\$ 22.46	\$ 22.46	\$ 22.30	\$ 22.74



11/1/2023 12:00:00 AM	12/1/2023 12:00:00 AM	\$ 23.31	\$ 23.64	\$ 23.64	\$ 23.50	\$ 23.61	\$ 22.86	\$ 23.15	\$ 23.15	\$ 23.63	\$ 23.63	\$ 23.47	\$ 23.91
12/1/2023 12:00:00 AM	1/1/2024 12:00:00 AM	\$ 24.35	\$ 24.67	\$ 24.67	\$ 24.54	\$ 24.64	\$ 23.89	\$ 24.18	\$ 24.18	\$ 24.66	\$ 24.66	\$ 24.50	\$ 24.94
1/1/2024 12:00:00 AM	2/1/2024 12:00:00 AM	\$ 38.05	\$ 38.38	\$ 38.38	\$ 38.24	\$ 38.35	\$ 37.60	\$ 37.89	\$ 37.89	\$ 38.37	\$ 38.37	\$ 38.21	\$ 38.65
2/1/2024 12:00:00 AM	3/1/2024 12:00:00 AM	\$ 34.67	\$ 35.00	\$ 35.00	\$ 34.86	\$ 34.97	\$ 34.22	\$ 34.51	\$ 34.51	\$ 34.99	\$ 34.99	\$ 34.83	\$ 35.27
3/1/2024 12:00:00 AM	4/1/2024 12:00:00 AM	\$ 28.13	\$ 28.45	\$ 28.45	\$ 28.32	\$ 28.42	\$ 27.67	\$ 27.96	\$ 27.96	\$ 28.44	\$ 28.44	\$ 28.28	\$ 28.72
4/1/2024 12:00:00 AM	5/1/2024 12:00:00 AM	\$ 26.54	\$ 26.87	\$ 26.87	\$ 26.73	\$ 26.84	\$ 26.09	\$ 26.38	\$ 26.38	\$ 26.86	\$ 26.86	\$ 26.70	\$ 27.14
5/1/2024 12:00:00 AM	6/1/2024 12:00:00 AM	\$ 20.93	\$ 21.26	\$ 21.26	\$ 21.12	\$ 21.23	\$ 20.48	\$ 20.77	\$ 20.77	\$ 21.25	\$ 21.25	\$ 21.09	\$ 21.53
6/1/2024 12:00:00 AM	7/1/2024 12:00:00 AM	\$ 21.87	\$ 22.19	\$ 22.19	\$ 22.06	\$ 22.16	\$ 21.41	\$ 21.70	\$ 21.70	\$ 22.18	\$ 22.18	\$ 22.02	\$ 22.46
7/1/2024 12:00:00 AM	8/1/2024 12:00:00 AM	\$ 24.24	\$ 24.57	\$ 24.57	\$ 24.43	\$ 24.54	\$ 23.79	\$ 24.08	\$ 24.08	\$ 24.56	\$ 24.56	\$ 24.40	\$ 24.84
8/1/2024 12:00:00 AM	9/1/2024 12:00:00 AM	\$ 23.74	\$ 24.06	\$ 24.06	\$ 23.93	\$ 24.03	\$ 23.28	\$ 23.57	\$ 23.57	\$ 24.05	\$ 24.05	\$ 23.89	\$ 24.33
9/1/2024 12:00:00 AM	10/1/2024 12:00:00 AM	\$ 20.86	\$ 21.19	\$ 21.19	\$ 21.05	\$ 21.16	\$ 20.40	\$ 20.69	\$ 20.69	\$ 21.17	\$ 21.17	\$ 21.02	\$ 21.46
10/1/2024 12:00:00 AM	11/1/2024 12:00:00 AM	\$ 23.16	\$ 23.49	\$ 23.49	\$ 23.35	\$ 23.46	\$ 22.71	\$ 23.00	\$ 23.00	\$ 23.48	\$ 23.48	\$ 23.32	\$ 23.76
11/1/2024 12:00:00 AM	12/1/2024 12:00:00 AM	\$ 24.39	\$ 24.71	\$ 24.71	\$ 24.58	\$ 24.68	\$ 23.93	\$ 24.22	\$ 24.22	\$ 24.70	\$ 24.70	\$ 24.54	\$ 24.98
12/1/2024 12:00:00 AM	1/1/2025 12:00:00 AM	\$ 25.47	\$ 25.79	\$ 25.79	\$ 25.66	\$ 25.76	\$ 25.01	\$ 25.30	\$ 25.30	\$ 25.78	\$ 25.78	\$ 25.62	\$ 26.06
1/1/2025 12:00:00 AM	2/1/2025 12:00:00 AM	\$ 39.88	\$ 40.21	\$ 40.21	\$ 40.07	\$ 40.18	\$ 39.42	\$ 39.71	\$ 39.71	\$ 40.19	\$ 40.19	\$ 40.04	\$ 40.48
2/1/2025 12:00:00 AM	3/1/2025 12:00:00 AM	\$ 36.34	\$ 36.66	\$ 36.66	\$ 36.53	\$ 36.63	\$ 35.88	\$ 36.17	\$ 36.17	\$ 36.65	\$ 36.65	\$ 36.49	\$ 36.93
3/1/2025 12:00:00 AM	4/1/2025 12:00:00 AM	\$ 29.48	\$ 29.80	\$ 29.80	\$ 29.67	\$ 29.77	\$ 29.02	\$ 29.31	\$ 29.31	\$ 29.79	\$ 29.79	\$ 29.63	\$ 30.07
4/1/2025 12:00:00 AM	5/1/2025 12:00:00 AM	\$ 27.82	\$ 28.14	\$ 28.14	\$ 28.01	\$ 28.11	\$ 27.36	\$ 27.65	\$ 27.65	\$ 28.13	\$ 28.13	\$ 27.97	\$ 28.41
5/1/2025 12:00:00 AM	6/1/2025 12:00:00 AM	\$ 21.94	\$ 22.26	\$ 22.26	\$ 22.13	\$ 22.23	\$ 21.48	\$ 21.77	\$ 21.77	\$ 22.25	\$ 22.25	\$ 22.09	\$ 22.53
6/1/2025 12:00:00 AM	7/1/2025 12:00:00 AM	\$ 22.92	\$ 23.24	\$ 23.24	\$ 23.11	\$ 23.21	\$ 22.46	\$ 22.75	\$ 22.75	\$ 23.23	\$ 23.23	\$ 23.07	\$ 23.51
7/1/2025 12:00:00 AM	8/1/2025 12:00:00 AM	\$ 25.41	\$ 25.73	\$ 25.73	\$ 25.60	\$ 25.70	\$ 24.95	\$ 25.24	\$ 25.24	\$ 25.72	\$ 25.72	\$ 25.56	\$ 26.00
8/1/2025 12:00:00 AM	9/1/2025 12:00:00 AM	\$ 24.88	\$ 25.20	\$ 25.20	\$ 25.07	\$ 25.17	\$ 24.42	\$ 24.71	\$ 24.71	\$ 25.19	\$ 25.19	\$ 25.03	\$ 25.47
9/1/2025 12:00:00 AM	10/1/2025 12:00:00 AM	\$ 21.86	\$ 22.19	\$ 22.19	\$ 22.05	\$ 22.16	\$ 21.41	\$ 21.70	\$ 21.70	\$ 22.18	\$ 22.18	\$ 22.02	\$ 22.46
10/1/2025 12:00:00 AM	11/1/2025 12:00:00 AM	\$ 24.28	\$ 24.60	\$ 24.60	\$ 24.47	\$ 24.57	\$ 23.82	\$ 24.11	\$ 24.11	\$ 24.59	\$ 24.59	\$ 24.43	\$ 24.87
11/1/2025 12:00:00 AM	12/1/2025 12:00:00 AM	\$ 25.56	\$ 25.88	\$ 25.88	\$ 25.75	\$ 25.85	\$ 25.10	\$ 25.39	\$ 25.39	\$ 25.87	\$ 25.87	\$ 25.71	\$ 26.15
12/1/2025 12:00:00 AM	1/1/2026 12:00:00 AM	\$ 26.69	\$ 27.01	\$ 27.01	\$ 26.88	\$ 26.98	\$ 26.23	\$ 26.52	\$ 26.52	\$ 27.00	\$ 27.00	\$ 26.84	\$ 27.28
1/1/2026 12:00:00 AM	2/1/2026 12:00:00 AM	\$ 40.64	\$ 40.97	\$ 40.97	\$ 40.83	\$ 40.94	\$ 40.18	\$ 40.47	\$ 40.47	\$ 40.95	\$ 40.95	\$ 40.80	\$ 41.24
2/1/2026 12:00:00 AM	3/1/2026 12:00:00 AM	\$ 37.03	\$ 37.36	\$ 37.36	\$ 37.22	\$ 37.33	\$ 36.57	\$ 36.86	\$ 36.86	\$ 37.34	\$ 37.34	\$ 37.19	\$ 37.63
3/1/2026 12:00:00 AM	4/1/2026 12:00:00 AM	\$ 30.04	\$ 30.36	\$ 30.36	\$ 30.23	\$ 30.33	\$ 29.58	\$ 29.87	\$ 29.87	\$ 30.35	\$ 30.35	\$ 30.19	\$ 30.63
4/1/2026 12:00:00 AM	5/1/2026 12:00:00 AM	\$ 28.35	\$ 28.67	\$ 28.67	\$ 28.54	\$ 28.64	\$ 27.89	\$ 28.18	\$ 28.18	\$ 28.66	\$ 28.66	\$ 28.50	\$ 28.94
5/1/2026 12:00:00 AM	6/1/2026 12:00:00 AM	\$ 22.36	\$ 22.68	\$ 22.68	\$ 22.55	\$ 22.65	\$ 21.90	\$ 22.19	\$ 22.19	\$ 22.67	\$ 22.67	\$ 22.51	\$ 22.95
6/1/2026 12:00:00 AM	7/1/2026 12:00:00 AM	\$ 23.36	\$ 23.68	\$ 23.68	\$ 23.55	\$ 23.65	\$ 22.90	\$ 23.19	\$ 23.19	\$ 23.67	\$ 23.67	\$ 23.51	\$ 23.95
7/1/2026 12:00:00 AM	8/1/2026 12:00:00 AM	\$ 25.89	\$ 26.22	\$ 26.22	\$ 26.08	\$ 26.19	\$ 25.43	\$ 25.72	\$ 25.72	\$ 26.20	\$ 26.20	\$ 26.05	\$ 26.49
8/1/2026 12:00:00 AM	9/1/2026 12:00:00 AM	\$ 25.35	\$ 25.68	\$ 25.68	\$ 25.54	\$ 25.65	\$ 24.90	\$ 25.19	\$ 25.19	\$ 25.67	\$ 25.67	\$ 25.51	\$ 25.95
9/1/2026 12:00:00 AM	10/1/2026 12:00:00 AM	\$ 22.28	\$ 22.60	\$ 22.60	\$ 22.47	\$ 22.57	\$ 21.82	\$ 22.11	\$ 22.11	\$ 22.59	\$ 22.59	\$ 22.43	\$ 22.87
10/1/2026 12:00:00 AM	11/1/2026 12:00:00 AM	\$ 24.74	\$ 25.06	\$ 25.06	\$ 24.93	\$ 25.03	\$ 24.28	\$ 24.57	\$ 24.57	\$ 25.05	\$ 25.05	\$ 24.89	\$ 25.33
11/1/2026 12:00:00 AM	12/1/2026 12:00:00 AM	\$ 26.04	\$ 26.37	\$ 26.37	\$ 26.23	\$ 26.34	\$ 25.59	\$ 25.88	\$ 25.88	\$ 26.36	\$ 26.36	\$ 26.20	\$ 26.64
12/1/2026 12:00:00 AM	1/1/2027 12:00:00 AM	\$ 27.20	\$ 27.52	\$ 27.52	\$ 27.39	\$ 27.49	\$ 26.74	\$ 27.03	\$ 27.03	\$ 27.51	\$ 27.51	\$ 27.35	\$ 27.79
1/1/2027 12:00:00 AM	2/1/2027 12:00:00 AM	\$ 40.64	\$ 40.97	\$ 40.97	\$ 40.83	\$ 40.94	\$ 40.19	\$ 40.48	\$ 40.48	\$ 40.96	\$ 40.96	\$ 40.80	\$ 41.24
2/1/2027 12:00:00 AM	3/1/2027 12:00:00 AM	\$ 37.03	\$ 37.36	\$ 37.36	\$ 37.22	\$ 37.33	\$ 36.57	\$ 36.86	\$ 36.86	\$ 37.34	\$ 37.34	\$ 37.19	\$ 37.63
3/1/2027 12:00:00 AM	4/1/2027 12:00:00 AM	\$ 30.04	\$ 30.37	\$ 30.37	\$ 30.23	\$ 30.34	\$ 29.58	\$ 29.87	\$ 29.87	\$ 30.35	\$ 30.35	\$ 30.20	\$ 30.64
4/1/2027 12:00:00 AM	5/1/2027 12:00:00 AM	\$ 28.35	\$ 28.68	\$ 28.68	\$ 28.54	\$ 28.65	\$ 27.89	\$ 28.18	\$ 28.18	\$ 28.66	\$ 28.66	\$ 28.51	\$ 28.95
5/1/2027 12:00:00 AM	6/1/2027 12:00:00 AM	\$ 22.36	\$ 22.68	\$ 22.68	\$ 22.55	\$ 22.65	\$ 21.90	\$ 22.19	\$ 22.19	\$ 22.67	\$ 22.67	\$ 22.51	\$ 22.95
6/1/2027 12:00:00 AM	7/1/2027 12:00:00 AM	\$ 23.36	\$ 23.68	\$ 23.68	\$ 23.55	\$ 23.65	\$ 22.90	\$ 23.19	\$ 23.19	\$ 23.67	\$ 23.67	\$ 23.51	\$ 23.95
7/1/2027 12:00:00 AM	8/1/2027 12:00:00 AM	\$ 25.89	\$ 26.22	\$ 26.22	\$ 26.08	\$ 26.19	\$ 25.43	\$ 25.72	\$ 25.72	\$ 26.20	\$ 26.20	\$ 26.05	\$ 26.49
8/1/2027 12:00:00 AM	9/1/2027 12:00:00 AM	\$ 25.35	\$ 25.68	\$ 25.68	\$ 25.54	\$ 25.65	\$ 24.90	\$ 25.19	\$ 25.19	\$ 25.67	\$ 25.67	\$ 25.51	\$ 25.95
9/1/2027 12:00:00 AM	10/1/2027 12:00:00 AM	\$ 22.28	\$ 22.61	\$ 22.61	\$ 22.47	\$ 22.58	\$ 21.82	\$ 22.11	\$ 22.11	\$ 22.59	\$ 22.59	\$ 22.44	\$ 22.88



10/1/2027 12:00:00 AM	11/1/2027 12:00:00 AM	\$ 24.74	\$ 25.06	\$ 25.06	\$ 24.93	\$ 25.03	\$ 24.28	\$ 24.57	\$ 24.57	\$ 25.05	\$ 25.05	\$ 24.89	\$ 25.33
11/1/2027 12:00:00 AM	12/1/2027 12:00:00 AM	\$ 26.05	\$ 26.37	\$ 26.37	\$ 26.24	\$ 26.34	\$ 25.59	\$ 25.88	\$ 25.88	\$ 26.36	\$ 26.36	\$ 26.20	\$ 26.64
12/1/2027 12:00:00 AM	1/1/2028 12:00:00 AM	\$ 27.20	\$ 27.52	\$ 27.52	\$ 27.39	\$ 27.49	\$ 26.74	\$ 27.03	\$ 27.03	\$ 27.51	\$ 27.51	\$ 27.35	\$ 27.79
1/1/2028 12:00:00 AM	2/1/2028 12:00:00 AM	\$ 41.07	\$ 41.40	\$ 41.40	\$ 41.26	\$ 41.37	\$ 40.61	\$ 40.90	\$ 40.90	\$ 41.38	\$ 41.38	\$ 41.23	\$ 41.67
2/1/2028 12:00:00 AM	3/1/2028 12:00:00 AM	\$ 37.42	\$ 37.75	\$ 37.75	\$ 37.61	\$ 37.72	\$ 36.97	\$ 37.26	\$ 37.26	\$ 37.74	\$ 37.74	\$ 37.58	\$ 38.02
3/1/2028 12:00:00 AM	4/1/2028 12:00:00 AM	\$ 30.36	\$ 30.68	\$ 30.68	\$ 30.55	\$ 30.65	\$ 29.90	\$ 30.19	\$ 30.19	\$ 30.67	\$ 30.67	\$ 30.51	\$ 30.95
4/1/2028 12:00:00 AM	5/1/2028 12:00:00 AM	\$ 28.65	\$ 28.97	\$ 28.97	\$ 28.84	\$ 28.94	\$ 28.19	\$ 28.48	\$ 28.48	\$ 28.96	\$ 28.96	\$ 28.80	\$ 29.24
5/1/2028 12:00:00 AM	6/1/2028 12:00:00 AM	\$ 22.59	\$ 22.92	\$ 22.92	\$ 22.78	\$ 22.89	\$ 22.14	\$ 22.43	\$ 22.43	\$ 22.91	\$ 22.91	\$ 22.75	\$ 23.19
6/1/2028 12:00:00 AM	7/1/2028 12:00:00 AM	\$ 23.60	\$ 23.93	\$ 23.93	\$ 23.79	\$ 23.90	\$ 23.15	\$ 23.44	\$ 23.44	\$ 23.92	\$ 23.92	\$ 23.76	\$ 24.20
7/1/2028 12:00:00 AM	8/1/2028 12:00:00 AM	\$ 26.16	\$ 26.49	\$ 26.49	\$ 26.35	\$ 26.46	\$ 25.71	\$ 26.00	\$ 26.00	\$ 26.48	\$ 26.48	\$ 26.32	\$ 26.76
8/1/2028 12:00:00 AM	9/1/2028 12:00:00 AM	\$ 25.62	\$ 25.95	\$ 25.95	\$ 25.81	\$ 25.92	\$ 25.16	\$ 25.45	\$ 25.45	\$ 25.93	\$ 25.93	\$ 25.78	\$ 26.22
9/1/2028 12:00:00 AM	10/1/2028 12:00:00 AM	\$ 22.52	\$ 22.84	\$ 22.84	\$ 22.71	\$ 22.81	\$ 22.06	\$ 22.35	\$ 22.35	\$ 22.83	\$ 22.83	\$ 22.67	\$ 23.11
10/1/2028 12:00:00 AM	11/1/2028 12:00:00 AM	\$ 25.00	\$ 25.33	\$ 25.33	\$ 25.19	\$ 25.30	\$ 24.54	\$ 24.83	\$ 24.83	\$ 25.31	\$ 25.31	\$ 25.16	\$ 25.60
11/1/2028 12:00:00 AM	12/1/2028 12:00:00 AM	\$ 26.32	\$ 26.65	\$ 26.65	\$ 26.51	\$ 26.62	\$ 25.86	\$ 26.15	\$ 26.15	\$ 26.63	\$ 26.63	\$ 26.48	\$ 26.92
12/1/2028 12:00:00 AM	1/1/2029 12:00:00 AM	\$ 27.48	\$ 27.81	\$ 27.81	\$ 27.67	\$ 27.78	\$ 27.03	\$ 27.32	\$ 27.32	\$ 27.80	\$ 27.80	\$ 27.64	\$ 28.08
1/1/2029 12:00:00 AM	2/1/2029 12:00:00 AM	\$ 41.52	\$ 41.85	\$ 41.85	\$ 41.71	\$ 41.82	\$ 41.06	\$ 41.35	\$ 41.35	\$ 41.83	\$ 41.83	\$ 41.68	\$ 42.12
2/1/2029 12:00:00 AM	3/1/2029 12:00:00 AM	\$ 37.83	\$ 38.16	\$ 38.16	\$ 38.02	\$ 38.13	\$ 37.37	\$ 37.66	\$ 37.66	\$ 38.14	\$ 38.14	\$ 37.99	\$ 38.43
3/1/2029 12:00:00 AM	4/1/2029 12:00:00 AM	\$ 30.69	\$ 31.01	\$ 31.01	\$ 30.88	\$ 30.98	\$ 30.23	\$ 30.52	\$ 30.52	\$ 31.00	\$ 31.00	\$ 30.84	\$ 31.28
4/1/2029 12:00:00 AM	5/1/2029 12:00:00 AM	\$ 28.96	\$ 29.29	\$ 29.29	\$ 29.15	\$ 29.26	\$ 28.51	\$ 28.80	\$ 28.80	\$ 29.28	\$ 29.28	\$ 29.12	\$ 29.56
5/1/2029 12:00:00 AM	6/1/2029 12:00:00 AM	\$ 22.84	\$ 23.17	\$ 23.17	\$ 23.03	\$ 23.14	\$ 22.38	\$ 22.67	\$ 22.67	\$ 23.15	\$ 23.15	\$ 23.00	\$ 23.44
6/1/2029 12:00:00 AM	7/1/2029 12:00:00 AM	\$ 23.86	\$ 24.19	\$ 24.19	\$ 24.05	\$ 24.16	\$ 23.40	\$ 23.69	\$ 23.69	\$ 24.17	\$ 24.17	\$ 24.02	\$ 24.46
7/1/2029 12:00:00 AM	8/1/2029 12:00:00 AM	\$ 26.45	\$ 26.78	\$ 26.78	\$ 26.64	\$ 26.75	\$ 25.99	\$ 26.28	\$ 26.28	\$ 26.76	\$ 26.76	\$ 26.61	\$ 27.05
8/1/2029 12:00:00 AM	9/1/2029 12:00:00 AM	\$ 25.90	\$ 26.23	\$ 26.23	\$ 26.09	\$ 26.20	\$ 25.44	\$ 25.73	\$ 25.73	\$ 26.21	\$ 26.21	\$ 26.06	\$ 26.50
9/1/2029 12:00:00 AM	10/1/2029 12:00:00 AM	\$ 22.76	\$ 23.09	\$ 23.09	\$ 22.95	\$ 23.06	\$ 22.30	\$ 22.59	\$ 22.59	\$ 23.07	\$ 23.07	\$ 22.92	\$ 23.36
10/1/2029 12:00:00 AM	11/1/2029 12:00:00 AM	\$ 25.27	\$ 25.60	\$ 25.60	\$ 25.46	\$ 25.57	\$ 24.82	\$ 25.11	\$ 25.11	\$ 25.59	\$ 25.59	\$ 25.43	\$ 25.87
11/1/2029 12:00:00 AM	12/1/2029 12:00:00 AM	\$ 26.61	\$ 26.93	\$ 26.93	\$ 26.80	\$ 26.90	\$ 26.15	\$ 26.44	\$ 26.44	\$ 26.92	\$ 26.92	\$ 26.76	\$ 27.20
12/1/2029 12:00:00 AM	1/1/2030 12:00:00 AM	\$ 27.79	\$ 28.11	\$ 28.11	\$ 27.98	\$ 28.08	\$ 27.33	\$ 27.62	\$ 27.62	\$ 28.10	\$ 28.10	\$ 27.94	\$ 28.38
1/1/2030 12:00:00 AM	2/1/2030 12:00:00 AM	\$ 42.22	\$ 42.55	\$ 42.55	\$ 42.41	\$ 42.52	\$ 41.77	\$ 42.06	\$ 42.06	\$ 42.54	\$ 42.54	\$ 42.38	\$ 42.82
2/1/2030 12:00:00 AM	3/1/2030 12:00:00 AM	\$ 38.47	\$ 38.80	\$ 38.80	\$ 38.66	\$ 38.77	\$ 38.02	\$ 38.31	\$ 38.31	\$ 38.79	\$ 38.79	\$ 38.63	\$ 39.07
3/1/2030 12:00:00 AM	4/1/2030 12:00:00 AM	\$ 31.21	\$ 31.53	\$ 31.53	\$ 31.40	\$ 31.50	\$ 30.75	\$ 31.04	\$ 31.04	\$ 31.52	\$ 31.52	\$ 31.36	\$ 31.80
4/1/2030 12:00:00 AM	5/1/2030 12:00:00 AM	\$ 29.45	\$ 29.78	\$ 29.78	\$ 29.64	\$ 29.75	\$ 29.00	\$ 29.29	\$ 29.29	\$ 29.77	\$ 29.77	\$ 29.61	\$ 30.05
5/1/2030 12:00:00 AM	6/1/2030 12:00:00 AM	\$ 23.23	\$ 23.55	\$ 23.55	\$ 23.42	\$ 23.52	\$ 22.77	\$ 23.06	\$ 23.06	\$ 23.54	\$ 23.54	\$ 23.38	\$ 23.82
6/1/2030 12:00:00 AM	7/1/2030 12:00:00 AM	\$ 24.27	\$ 24.59	\$ 24.59	\$ 24.46	\$ 24.56	\$ 23.81	\$ 24.10	\$ 24.10	\$ 24.58	\$ 24.58	\$ 24.42	\$ 24.86
7/1/2030 12:00:00 AM	8/1/2030 12:00:00 AM	\$ 26.90	\$ 27.22	\$ 27.22	\$ 27.09	\$ 27.19	\$ 26.44	\$ 26.73	\$ 26.73	\$ 27.21	\$ 27.21	\$ 27.05	\$ 27.49
8/1/2030 12:00:00 AM	9/1/2030 12:00:00 AM	\$ 26.34	\$ 26.67	\$ 26.67	\$ 26.53	\$ 26.64	\$ 25.88	\$ 26.17	\$ 26.17	\$ 26.65	\$ 26.65	\$ 26.50	\$ 26.94
9/1/2030 12:00:00 AM	10/1/2030 12:00:00 AM	\$ 23.15	\$ 23.47	\$ 23.47	\$ 23.34	\$ 23.44	\$ 22.69	\$ 22.98	\$ 22.98	\$ 23.46	\$ 23.46	\$ 23.30	\$ 23.74
10/1/2030 12:00:00 AM	11/1/2030 12:00:00 AM	\$ 25.70	\$ 26.03	\$ 26.03	\$ 25.89	\$ 26.00	\$ 25.24	\$ 25.53	\$ 25.53	\$ 26.01	\$ 26.01	\$ 25.86	\$ 26.30
11/1/2030 12:00:00 AM	12/1/2030 12:00:00 AM	\$ 27.06	\$ 27.38	\$ 27.38	\$ 27.25	\$ 27.35	\$ 26.60	\$ 26.89	\$ 26.89	\$ 27.37	\$ 27.37	\$ 27.21	\$ 27.65
12/1/2030 12:00:00 AM	1/1/2031 12:00:00 AM	\$ 28.26	\$ 28.58	\$ 28.58	\$ 28.45	\$ 28.55	\$ 27.80	\$ 28.09	\$ 28.09	\$ 28.57	\$ 28.57	\$ 28.41	\$ 28.85
1/1/2031 12:00:00 AM	2/1/2031 12:00:00 AM	\$ 43.32	\$ 43.64	\$ 43.64	\$ 43.51	\$ 43.61	\$ 42.86	\$ 43.15	\$ 43.15	\$ 43.63	\$ 43.63	\$ 43.47	\$ 43.91
2/1/2031 12:00:00 AM	3/1/2031 12:00:00 AM	\$ 39.47	\$ 39.79	\$ 39.79	\$ 39.66	\$ 39.76	\$ 39.01	\$ 39.30	\$ 39.30	\$ 39.78	\$ 39.78	\$ 39.62	\$ 40.06
3/1/2031 12:00:00 AM	4/1/2031 12:00:00 AM	\$ 32.02	\$ 32.34	\$ 32.34	\$ 32.21	\$ 32.31	\$ 31.56	\$ 31.85	\$ 31.85	\$ 32.33	\$ 32.33	\$ 32.17	\$ 32.61
4/1/2031 12:00:00 AM	5/1/2031 12:00:00 AM	\$ 30.22	\$ 30.54	\$ 30.54	\$ 30.41	\$ 30.51	\$ 29.76	\$ 30.05	\$ 30.05	\$ 30.53	\$ 30.53	\$ 30.37	\$ 30.81
5/1/2031 12:00:00 AM	6/1/2031 12:00:00 AM	\$ 23.83	\$ 24.15	\$ 24.15	\$ 24.02	\$ 24.12	\$ 23.37	\$ 23.66	\$ 23.66	\$ 24.14	\$ 24.14	\$ 23.98	\$ 24.42
6/1/2031 12:00:00 AM	7/1/2031 12:00:00 AM	\$ 24.89	\$ 25.22	\$ 25.22	\$ 25.08	\$ 25.19	\$ 24.44	\$ 24.73	\$ 24.73	\$ 25.21	\$ 25.21	\$ 25.05	\$ 25.49
7/1/2031 12:00:00 AM	8/1/2031 12:00:00 AM	\$ 27.59	\$ 27.92	\$ 27.92	\$ 27.78	\$ 27.89	\$ 27.14	\$ 27.43	\$ 27.43	\$ 27.91	\$ 27.91	\$ 27.75	\$ 28.19
8/1/2031 12:00:00 AM	9/1/2031 12:00:00 AM	\$ 27.02	\$ 27.35	\$ 27.35	\$ 27.21	\$ 27.32	\$ 26.56	\$ 26.85	\$ 26.85	\$ 27.33	\$ 27.33	\$ 27.18	\$ 27.62



9/1/2031 12:00:00 AM	10/1/2031 12:00:00 AM	\$ 23.75	\$ 24.07	\$ 24.07	\$ 23.94	\$ 24.04	\$ 23.29	\$ 23.58	\$ 23.58	\$ 24.06	\$ 24.06	\$ 23.90	\$ 24.34
10/1/2031 12:00:00 AM	11/1/2031 12:00:00 AM	\$ 26.37	\$ 26.69	\$ 26.69	\$ 26.56	\$ 26.66	\$ 25.91	\$ 26.20	\$ 26.20	\$ 26.68	\$ 26.68	\$ 26.52	\$ 26.96
11/1/2031 12:00:00 AM	12/1/2031 12:00:00 AM	\$ 27.76	\$ 28.08	\$ 28.08	\$ 27.95	\$ 28.05	\$ 27.30	\$ 27.59	\$ 27.59	\$ 28.07	\$ 28.07	\$ 27.91	\$ 28.35
12/1/2031 12:00:00 AM	1/1/2032 12:00:00 AM	\$ 28.99	\$ 29.31	\$ 29.31	\$ 29.18	\$ 29.28	\$ 28.53	\$ 28.82	\$ 28.82	\$ 29.30	\$ 29.30	\$ 29.14	\$ 29.58
1/1/2032 12:00:00 AM	2/1/2032 12:00:00 AM	\$ 45.27	\$ 45.60	\$ 45.60	\$ 45.46	\$ 45.57	\$ 44.82	\$ 45.11	\$ 45.11	\$ 45.59	\$ 45.59	\$ 45.43	\$ 45.87
2/1/2032 12:00:00 AM	3/1/2032 12:00:00 AM	\$ 41.25	\$ 41.58	\$ 41.58	\$ 41.44	\$ 41.55	\$ 40.79	\$ 41.08	\$ 41.08	\$ 41.56	\$ 41.56	\$ 41.41	\$ 41.85
3/1/2032 12:00:00 AM	4/1/2032 12:00:00 AM	\$ 33.46	\$ 33.79	\$ 33.79	\$ 33.65	\$ 33.76	\$ 33.01	\$ 33.30	\$ 33.30	\$ 33.78	\$ 33.78	\$ 33.62	\$ 34.06
4/1/2032 12:00:00 AM	5/1/2032 12:00:00 AM	\$ 31.58	\$ 31.91	\$ 31.91	\$ 31.77	\$ 31.88	\$ 31.12	\$ 31.41	\$ 31.41	\$ 31.89	\$ 31.89	\$ 31.74	\$ 32.18
5/1/2032 12:00:00 AM	6/1/2032 12:00:00 AM	\$ 24.90	\$ 25.23	\$ 25.23	\$ 25.09	\$ 25.20	\$ 24.45	\$ 24.74	\$ 24.74	\$ 25.22	\$ 25.22	\$ 25.06	\$ 25.50
6/1/2032 12:00:00 AM	7/1/2032 12:00:00 AM	\$ 26.02	\$ 26.34	\$ 26.34	\$ 26.21	\$ 26.31	\$ 25.56	\$ 25.85	\$ 25.85	\$ 26.33	\$ 26.33	\$ 26.17	\$ 26.61
7/1/2032 12:00:00 AM	8/1/2032 12:00:00 AM	\$ 28.84	\$ 29.17	\$ 29.17	\$ 29.03	\$ 29.14	\$ 28.38	\$ 28.67	\$ 28.67	\$ 29.15	\$ 29.15	\$ 29.00	\$ 29.44
8/1/2032 12:00:00 AM	9/1/2032 12:00:00 AM	\$ 28.24	\$ 28.57	\$ 28.57	\$ 28.43	\$ 28.54	\$ 27.78	\$ 28.07	\$ 28.07	\$ 28.55	\$ 28.55	\$ 28.40	\$ 28.84
9/1/2032 12:00:00 AM	10/1/2032 12:00:00 AM	\$ 24.82	\$ 25.14	\$ 25.14	\$ 25.01	\$ 25.11	\$ 24.36	\$ 24.65	\$ 24.65	\$ 25.13	\$ 25.13	\$ 24.97	\$ 25.41
10/1/2032 12:00:00 AM	11/1/2032 12:00:00 AM	\$ 27.56	\$ 27.88	\$ 27.88	\$ 27.75	\$ 27.85	\$ 27.10	\$ 27.39	\$ 27.39	\$ 27.87	\$ 27.87	\$ 27.71	\$ 28.15
11/1/2032 12:00:00 AM	12/1/2032 12:00:00 AM	\$ 29.01	\$ 29.34	\$ 29.34	\$ 29.20	\$ 29.31	\$ 28.56	\$ 28.85	\$ 28.85	\$ 29.33	\$ 29.33	\$ 29.17	\$ 29.61
12/1/2032 12:00:00 AM	1/1/2033 12:00:00 AM	\$ 30.30	\$ 30.62	\$ 30.62	\$ 30.49	\$ 30.59	\$ 29.84	\$ 30.13	\$ 30.13	\$ 30.61	\$ 30.61	\$ 30.45	\$ 30.89
1/1/2033 12:00:00 AM	2/1/2033 12:00:00 AM	\$ 46.71	\$ 47.04	\$ 47.04	\$ 46.90	\$ 47.01	\$ 46.26	\$ 46.55	\$ 46.55	\$ 47.03	\$ 47.03	\$ 46.87	\$ 47.31
2/1/2033 12:00:00 AM	3/1/2033 12:00:00 AM	\$ 42.56	\$ 42.89	\$ 42.89	\$ 42.75	\$ 42.86	\$ 42.11	\$ 42.40	\$ 42.40	\$ 42.88	\$ 42.88	\$ 42.72	\$ 43.16
3/1/2033 12:00:00 AM	4/1/2033 12:00:00 AM	\$ 34.53	\$ 34.85	\$ 34.85	\$ 34.72	\$ 34.82	\$ 34.07	\$ 34.36	\$ 34.36	\$ 34.84	\$ 34.84	\$ 34.68	\$ 35.12
4/1/2033 12:00:00 AM	5/1/2033 12:00:00 AM	\$ 32.59	\$ 32.91	\$ 32.91	\$ 32.78	\$ 32.88	\$ 32.13	\$ 32.42	\$ 32.42	\$ 32.90	\$ 32.90	\$ 32.74	\$ 33.18
5/1/2033 12:00:00 AM	6/1/2033 12:00:00 AM	\$ 25.70	\$ 26.02	\$ 26.02	\$ 25.89	\$ 25.99	\$ 25.24	\$ 25.53	\$ 25.53	\$ 26.01	\$ 26.01	\$ 25.85	\$ 26.29
6/1/2033 12:00:00 AM	7/1/2033 12:00:00 AM	\$ 26.85	\$ 27.17	\$ 27.17	\$ 27.04	\$ 27.14	\$ 26.39	\$ 26.68	\$ 26.68	\$ 27.16	\$ 27.16	\$ 27.00	\$ 27.44
7/1/2033 12:00:00 AM	8/1/2033 12:00:00 AM	\$ 29.76	\$ 30.08	\$ 30.08	\$ 29.95	\$ 30.05	\$ 29.30	\$ 29.59	\$ 29.59	\$ 30.07	\$ 30.07	\$ 29.91	\$ 30.35
8/1/2033 12:00:00 AM	9/1/2033 12:00:00 AM	\$ 29.14	\$ 29.47	\$ 29.47	\$ 29.33	\$ 29.44	\$ 28.68	\$ 28.97	\$ 28.97	\$ 29.45	\$ 29.45	\$ 29.30	\$ 29.74
9/1/2033 12:00:00 AM	10/1/2033 12:00:00 AM	\$ 25.61	\$ 25.93	\$ 25.93	\$ 25.80	\$ 25.90	\$ 25.15	\$ 25.44	\$ 25.44	\$ 25.92	\$ 25.92	\$ 25.76	\$ 26.20
10/1/2033 12:00:00 AM	11/1/2033 12:00:00 AM	\$ 28.43	\$ 28.76	\$ 28.76	\$ 28.62	\$ 28.73	\$ 27.98	\$ 28.27	\$ 28.27	\$ 28.75	\$ 28.75	\$ 28.59	\$ 29.03
11/1/2033 12:00:00 AM	12/1/2033 12:00:00 AM	\$ 29.94	\$ 30.26	\$ 30.26	\$ 30.13	\$ 30.23	\$ 29.48	\$ 29.77	\$ 29.77	\$ 30.25	\$ 30.25	\$ 30.09	\$ 30.53
12/1/2033 12:00:00 AM	1/1/2034 12:00:00 AM	\$ 31.26	\$ 31.59	\$ 31.59	\$ 31.45	\$ 31.56	\$ 30.80	\$ 31.09	\$ 31.09	\$ 31.57	\$ 31.57	\$ 31.42	\$ 31.86
1/1/2034 12:00:00 AM	2/1/2034 12:00:00 AM	\$ 48.17	\$ 48.50	\$ 48.50	\$ 48.36	\$ 48.47	\$ 47.72	\$ 48.01	\$ 48.01	\$ 48.49	\$ 48.49	\$ 48.33	\$ 48.77
2/1/2034 12:00:00 AM	3/1/2034 12:00:00 AM	\$ 43.89	\$ 44.22	\$ 44.22	\$ 44.08	\$ 44.19	\$ 43.44	\$ 43.73	\$ 43.73	\$ 44.21	\$ 44.21	\$ 44.05	\$ 44.49
3/1/2034 12:00:00 AM	4/1/2034 12:00:00 AM	\$ 35.61	\$ 35.93	\$ 35.93	\$ 35.80	\$ 35.90	\$ 35.15	\$ 35.44	\$ 35.44	\$ 35.92	\$ 35.92	\$ 35.76	\$ 36.20
4/1/2034 12:00:00 AM	5/1/2034 12:00:00 AM	\$ 33.60	\$ 33.93	\$ 33.93	\$ 33.79	\$ 33.90	\$ 33.15	\$ 33.44	\$ 33.44	\$ 33.92	\$ 33.92	\$ 33.76	\$ 34.20
5/1/2034 12:00:00 AM	6/1/2034 12:00:00 AM	\$ 26.50	\$ 26.83	\$ 26.83	\$ 26.69	\$ 26.80	\$ 26.04	\$ 26.33	\$ 26.33	\$ 26.81	\$ 26.81	\$ 26.66	\$ 27.10
6/1/2034 12:00:00 AM	7/1/2034 12:00:00 AM	\$ 27.68	\$ 28.01	\$ 28.01	\$ 27.87	\$ 27.98	\$ 27.23	\$ 27.52	\$ 27.52	\$ 28.00	\$ 28.00	\$ 27.84	\$ 28.28
7/1/2034 12:00:00 AM	8/1/2034 12:00:00 AM	\$ 30.69	\$ 31.01	\$ 31.01	\$ 30.88	\$ 30.98	\$ 30.23	\$ 30.52	\$ 30.52	\$ 31.00	\$ 31.00	\$ 30.84	\$ 31.28
8/1/2034 12:00:00 AM	9/1/2034 12:00:00 AM	\$ 30.05	\$ 30.38	\$ 30.38	\$ 30.24	\$ 30.35	\$ 29.59	\$ 29.88	\$ 29.88	\$ 30.36	\$ 30.36	\$ 30.21	\$ 30.65
9/1/2034 12:00:00 AM	10/1/2034 12:00:00 AM	\$ 26.41	\$ 26.73	\$ 26.73	\$ 26.60	\$ 26.70	\$ 25.95	\$ 26.24	\$ 26.24	\$ 26.72	\$ 26.72	\$ 26.56	\$ 27.00
10/1/2034 12:00:00 AM	11/1/2034 12:00:00 AM	\$ 29.32	\$ 29.65	\$ 29.65	\$ 29.51	\$ 29.62	\$ 28.87	\$ 29.16	\$ 29.16	\$ 29.64	\$ 29.64	\$ 29.48	\$ 29.92
11/1/2034 12:00:00 AM	12/1/2034 12:00:00 AM	\$ 30.87	\$ 31.20	\$ 31.20	\$ 31.06	\$ 31.17	\$ 30.41	\$ 30.70	\$ 30.70	\$ 31.18	\$ 31.18	\$ 31.03	\$ 31.47
12/1/2034 12:00:00 AM	1/1/2035 12:00:00 AM	\$ 32.24	\$ 32.56	\$ 32.56	\$ 32.43	\$ 32.53	\$ 31.78	\$ 32.07	\$ 32.07	\$ 32.55	\$ 32.55	\$ 32.39	\$ 32.83
1/1/2035 12:00:00 AM	2/1/2035 12:00:00 AM	\$ 49.24	\$ 49.56	\$ 49.56	\$ 49.43	\$ 49.53	\$ 48.78	\$ 49.07	\$ 49.07	\$ 49.55	\$ 49.55	\$ 49.39	\$ 49.83
2/1/2035 12:00:00 AM	3/1/2035 12:00:00 AM	\$ 44.86	\$ 45.19	\$ 45.19	\$ 45.05	\$ 45.16	\$ 44.41	\$ 44.70	\$ 44.70	\$ 45.18	\$ 45.18	\$ 45.02	\$ 45.46
3/1/2035 12:00:00 AM	4/1/2035 12:00:00 AM	\$ 36.39	\$ 36.72	\$ 36.72	\$ 36.58	\$ 36.69	\$ 35.94	\$ 36.23	\$ 36.23	\$ 36.71	\$ 36.71	\$ 36.55	\$ 36.99
4/1/2035 12:00:00 AM	5/1/2035 12:00:00 AM	\$ 34.35	\$ 34.67	\$ 34.67	\$ 34.54	\$ 34.64	\$ 33.89	\$ 34.18	\$ 34.18	\$ 34.66	\$ 34.66	\$ 34.50	\$ 34.94
5/1/2035 12:00:00 AM	6/1/2035 12:00:00 AM	\$ 27.09	\$ 27.41	\$ 27.41	\$ 27.28	\$ 27.38	\$ 26.63	\$ 26.92	\$ 26.92	\$ 27.40	\$ 27.40	\$ 27.24	\$ 27.68
6/1/2035 12:00:00 AM	7/1/2035 12:00:00 AM	\$ 28.30	\$ 28.62	\$ 28.62	\$ 28.49	\$ 28.59	\$ 27.84	\$ 28.13	\$ 28.13	\$ 28.61	\$ 28.61	\$ 28.45	\$ 28.89
7/1/2035 12:00:00 AM	8/1/2035 12:00:00 AM	\$ 31.37	\$ 31.69	\$ 31.69	\$ 31.56	\$ 31.66	\$ 30.91	\$ 31.20	\$ 31.20	\$ 31.68	\$ 31.68	\$ 31.52	\$ 31.96

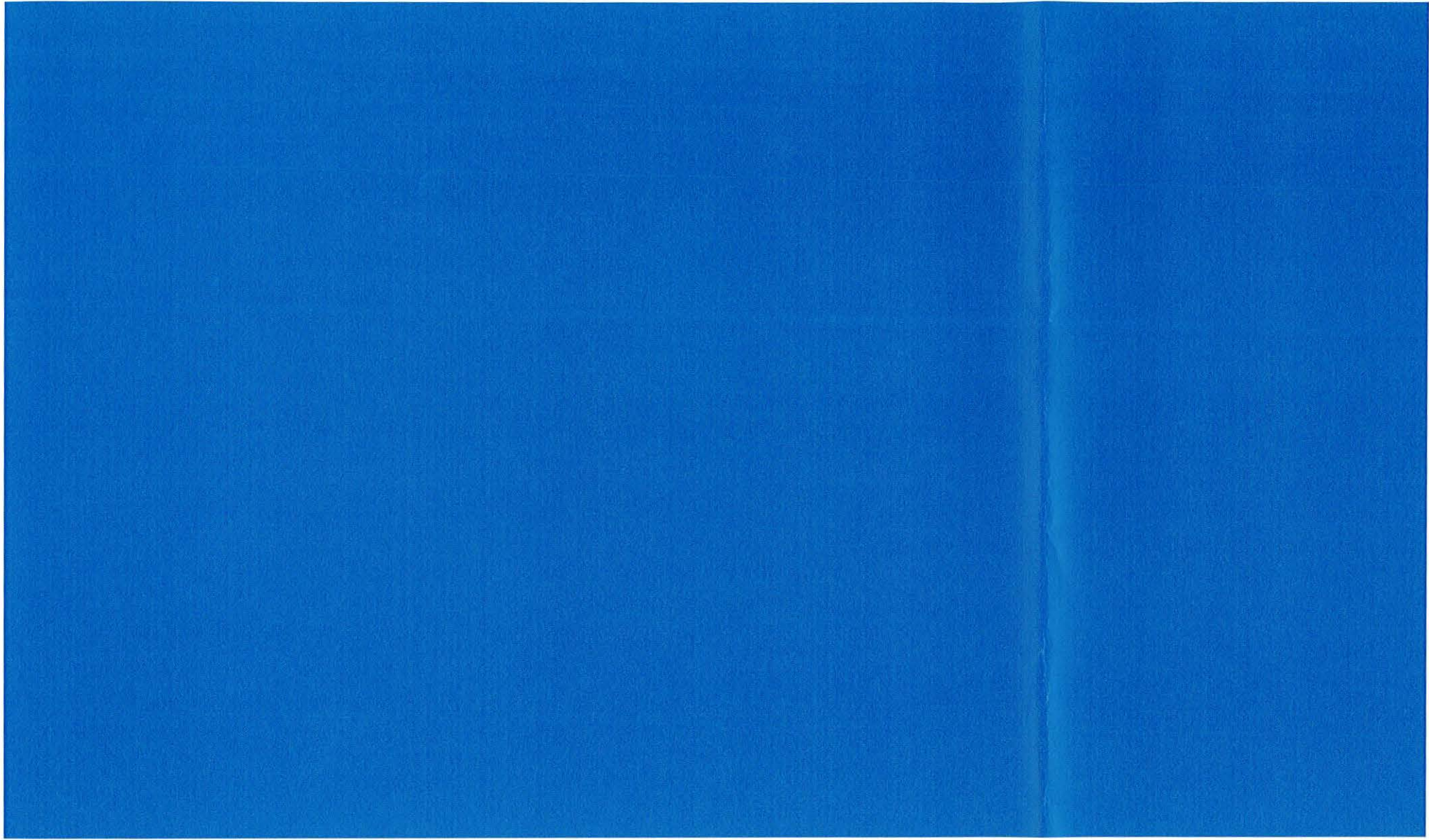


8/1/2035 12:00:00 AM	9/1/2035 12:00:00 AM	\$ 30.72	\$ 31.04	\$ 31.04	\$ 30.91	\$ 31.01	\$ 30.26	\$ 30.55	\$ 30.55	\$ 31.03	\$ 31.03	\$ 30.87	\$ 31.31
9/1/2035 12:00:00 AM	10/1/2035 12:00:00 AM	\$ 26.99	\$ 27.32	\$ 27.32	\$ 27.18	\$ 27.29	\$ 26.53	\$ 26.82	\$ 26.82	\$ 27.30	\$ 27.30	\$ 27.15	\$ 27.59
10/1/2035 12:00:00 AM	11/1/2035 12:00:00 AM	\$ 29.97	\$ 30.30	\$ 30.30	\$ 30.16	\$ 30.27	\$ 29.51	\$ 29.80	\$ 29.80	\$ 30.28	\$ 30.28	\$ 30.13	\$ 30.57
11/1/2035 12:00:00 AM	12/1/2035 12:00:00 AM	\$ 31.55	\$ 31.88	\$ 31.88	\$ 31.74	\$ 31.85	\$ 31.10	\$ 31.39	\$ 31.39	\$ 31.87	\$ 31.87	\$ 31.71	\$ 32.15
12/1/2035 12:00:00 AM	1/1/2036 12:00:00 AM	\$ 32.95	\$ 33.27	\$ 33.27	\$ 33.14	\$ 33.24	\$ 32.49	\$ 32.78	\$ 32.78	\$ 33.26	\$ 33.26	\$ 33.10	\$ 33.54
1/1/2036 12:00:00 AM	2/1/2036 12:00:00 AM	\$ 49.64	\$ 49.96	\$ 49.96	\$ 49.83	\$ 49.93	\$ 49.18	\$ 49.47	\$ 49.47	\$ 49.95	\$ 49.95	\$ 49.79	\$ 50.23
2/1/2036 12:00:00 AM	3/1/2036 12:00:00 AM	\$ 45.23	\$ 45.55	\$ 45.55	\$ 45.42	\$ 45.52	\$ 44.77	\$ 45.06	\$ 45.06	\$ 45.54	\$ 45.54	\$ 45.38	\$ 45.82
3/1/2036 12:00:00 AM	4/1/2036 12:00:00 AM	\$ 36.69	\$ 37.01	\$ 37.01	\$ 36.88	\$ 36.98	\$ 36.23	\$ 36.52	\$ 36.52	\$ 37.00	\$ 37.00	\$ 36.84	\$ 37.28
4/1/2036 12:00:00 AM	5/1/2036 12:00:00 AM	\$ 34.62	\$ 34.95	\$ 34.95	\$ 34.81	\$ 34.92	\$ 34.17	\$ 34.46	\$ 34.46	\$ 34.94	\$ 34.94	\$ 34.78	\$ 35.22
5/1/2036 12:00:00 AM	6/1/2036 12:00:00 AM	\$ 27.30	\$ 27.63	\$ 27.63	\$ 27.49	\$ 27.60	\$ 26.85	\$ 27.14	\$ 27.14	\$ 27.62	\$ 27.62	\$ 27.46	\$ 27.90
6/1/2036 12:00:00 AM	7/1/2036 12:00:00 AM	\$ 28.52	\$ 28.85	\$ 28.85	\$ 28.71	\$ 28.82	\$ 28.07	\$ 28.36	\$ 28.36	\$ 28.84	\$ 28.84	\$ 28.68	\$ 29.12
7/1/2036 12:00:00 AM	8/1/2036 12:00:00 AM	\$ 31.62	\$ 31.95	\$ 31.95	\$ 31.81	\$ 31.92	\$ 31.16	\$ 31.45	\$ 31.45	\$ 31.93	\$ 31.93	\$ 31.78	\$ 32.22
8/1/2036 12:00:00 AM	9/1/2036 12:00:00 AM	\$ 30.96	\$ 31.29	\$ 31.29	\$ 31.15	\$ 31.26	\$ 30.51	\$ 30.80	\$ 30.80	\$ 31.28	\$ 31.28	\$ 31.12	\$ 31.56
9/1/2036 12:00:00 AM	10/1/2036 12:00:00 AM	\$ 27.21	\$ 27.54	\$ 27.54	\$ 27.40	\$ 27.51	\$ 26.75	\$ 27.04	\$ 27.04	\$ 27.52	\$ 27.52	\$ 27.37	\$ 27.81
10/1/2036 12:00:00 AM	11/1/2036 12:00:00 AM	\$ 30.21	\$ 30.54	\$ 30.54	\$ 30.40	\$ 30.51	\$ 29.76	\$ 30.05	\$ 30.05	\$ 30.53	\$ 30.53	\$ 30.37	\$ 30.81
11/1/2036 12:00:00 AM	12/1/2036 12:00:00 AM	\$ 31.81	\$ 32.13	\$ 32.13	\$ 32.00	\$ 32.10	\$ 31.35	\$ 31.64	\$ 31.64	\$ 32.12	\$ 32.12	\$ 31.96	\$ 32.40
12/1/2036 12:00:00 AM	1/1/2037 12:00:00 AM	\$ 33.22	\$ 33.54	\$ 33.54	\$ 33.41	\$ 33.51	\$ 32.76	\$ 33.05	\$ 33.05	\$ 33.53	\$ 33.53	\$ 33.37	\$ 33.81
1/1/2037 12:00:00 AM	2/1/2037 12:00:00 AM	\$ 50.92	\$ 51.24	\$ 51.24	\$ 51.11	\$ 51.21	\$ 50.46	\$ 50.75	\$ 50.75	\$ 51.23	\$ 51.23	\$ 51.07	\$ 51.51
2/1/2037 12:00:00 AM	3/1/2037 12:00:00 AM	\$ 46.39	\$ 46.72	\$ 46.72	\$ 46.58	\$ 46.69	\$ 45.93	\$ 46.22	\$ 46.22	\$ 46.70	\$ 46.70	\$ 46.55	\$ 46.99
3/1/2037 12:00:00 AM	4/1/2037 12:00:00 AM	\$ 37.63	\$ 37.96	\$ 37.96	\$ 37.82	\$ 37.93	\$ 37.18	\$ 37.47	\$ 37.47	\$ 37.95	\$ 37.95	\$ 37.79	\$ 38.23
4/1/2037 12:00:00 AM	5/1/2037 12:00:00 AM	\$ 35.52	\$ 35.84	\$ 35.84	\$ 35.71	\$ 35.81	\$ 35.06	\$ 35.35	\$ 35.35	\$ 35.83	\$ 35.83	\$ 35.67	\$ 36.11
5/1/2037 12:00:00 AM	6/1/2037 12:00:00 AM	\$ 28.01	\$ 28.33	\$ 28.33	\$ 28.20	\$ 28.30	\$ 27.55	\$ 27.84	\$ 27.84	\$ 28.32	\$ 28.32	\$ 28.16	\$ 28.60
6/1/2037 12:00:00 AM	7/1/2037 12:00:00 AM	\$ 29.26	\$ 29.58	\$ 29.58	\$ 29.45	\$ 29.55	\$ 28.80	\$ 29.09	\$ 29.09	\$ 29.57	\$ 29.57	\$ 29.41	\$ 29.85
7/1/2037 12:00:00 AM	8/1/2037 12:00:00 AM	\$ 32.44	\$ 32.76	\$ 32.76	\$ 32.63	\$ 32.73	\$ 31.98	\$ 32.27	\$ 32.27	\$ 32.75	\$ 32.75	\$ 32.59	\$ 33.03
8/1/2037 12:00:00 AM	9/1/2037 12:00:00 AM	\$ 31.76	\$ 32.09	\$ 32.09	\$ 31.95	\$ 32.06	\$ 31.30	\$ 31.59	\$ 31.59	\$ 32.07	\$ 32.07	\$ 31.92	\$ 32.36
9/1/2037 12:00:00 AM	10/1/2037 12:00:00 AM	\$ 27.91	\$ 28.24	\$ 28.24	\$ 28.10	\$ 28.21	\$ 27.45	\$ 27.74	\$ 27.74	\$ 28.22	\$ 28.22	\$ 28.07	\$ 28.51
10/1/2037 12:00:00 AM	11/1/2037 12:00:00 AM	\$ 30.99	\$ 31.32	\$ 31.32	\$ 31.18	\$ 31.29	\$ 30.53	\$ 30.82	\$ 30.82	\$ 31.30	\$ 31.30	\$ 31.15	\$ 31.59
11/1/2037 12:00:00 AM	12/1/2037 12:00:00 AM	\$ 32.63	\$ 32.95	\$ 32.95	\$ 32.82	\$ 32.92	\$ 32.17	\$ 32.46	\$ 32.46	\$ 32.94	\$ 32.94	\$ 32.78	\$ 33.22
12/1/2037 12:00:00 AM	1/1/2038 12:00:00 AM	\$ 34.07	\$ 34.40	\$ 34.40	\$ 34.26	\$ 34.37	\$ 33.61	\$ 33.90	\$ 33.90	\$ 34.38	\$ 34.38	\$ 34.23	\$ 34.67
1/1/2038 12:00:00 AM	2/1/2038 12:00:00 AM	\$ 52.27	\$ 52.59	\$ 52.59	\$ 52.46	\$ 52.56	\$ 51.81	\$ 52.10	\$ 52.10	\$ 52.58	\$ 52.58	\$ 52.42	\$ 52.86
2/1/2038 12:00:00 AM	3/1/2038 12:00:00 AM	\$ 47.62	\$ 47.95	\$ 47.95	\$ 47.81	\$ 47.92	\$ 47.16	\$ 47.45	\$ 47.45	\$ 47.93	\$ 47.93	\$ 47.78	\$ 48.22
3/1/2038 12:00:00 AM	4/1/2038 12:00:00 AM	\$ 38.63	\$ 38.96	\$ 38.96	\$ 38.82	\$ 38.93	\$ 38.17	\$ 38.46	\$ 38.46	\$ 38.94	\$ 38.94	\$ 38.79	\$ 39.23
4/1/2038 12:00:00 AM	5/1/2038 12:00:00 AM	\$ 36.46	\$ 36.78	\$ 36.78	\$ 36.65	\$ 36.75	\$ 36.00	\$ 36.29	\$ 36.29	\$ 36.77	\$ 36.77	\$ 36.61	\$ 37.05
5/1/2038 12:00:00 AM	6/1/2038 12:00:00 AM	\$ 28.75	\$ 29.08	\$ 29.08	\$ 28.94	\$ 29.05	\$ 28.29	\$ 28.58	\$ 28.58	\$ 29.06	\$ 29.06	\$ 28.91	\$ 29.35
6/1/2038 12:00:00 AM	7/1/2038 12:00:00 AM	\$ 30.04	\$ 30.36	\$ 30.36	\$ 30.23	\$ 30.33	\$ 29.58	\$ 29.87	\$ 29.87	\$ 30.35	\$ 30.35	\$ 30.19	\$ 30.63
7/1/2038 12:00:00 AM	8/1/2038 12:00:00 AM	\$ 33.30	\$ 33.62	\$ 33.62	\$ 33.49	\$ 33.59	\$ 32.84	\$ 33.13	\$ 33.13	\$ 33.61	\$ 33.61	\$ 33.45	\$ 33.89
8/1/2038 12:00:00 AM	9/1/2038 12:00:00 AM	\$ 32.60	\$ 32.93	\$ 32.93	\$ 32.79	\$ 32.90	\$ 32.15	\$ 32.44	\$ 32.44	\$ 32.92	\$ 32.92	\$ 32.76	\$ 33.20
9/1/2038 12:00:00 AM	10/1/2038 12:00:00 AM	\$ 28.65	\$ 28.98	\$ 28.98	\$ 28.84	\$ 28.95	\$ 28.19	\$ 28.48	\$ 28.48	\$ 28.96	\$ 28.96	\$ 28.81	\$ 29.25
10/1/2038 12:00:00 AM	11/1/2038 12:00:00 AM	\$ 31.81	\$ 32.14	\$ 32.14	\$ 32.00	\$ 32.11	\$ 31.36	\$ 31.65	\$ 31.65	\$ 32.13	\$ 32.13	\$ 31.97	\$ 32.41
11/1/2038 12:00:00 AM	12/1/2038 12:00:00 AM	\$ 33.49	\$ 33.82	\$ 33.82	\$ 33.68	\$ 33.79	\$ 33.04	\$ 33.33	\$ 33.33	\$ 33.81	\$ 33.81	\$ 33.65	\$ 34.09
12/1/2038 12:00:00 AM	1/1/2039 12:00:00 AM	\$ 34.98	\$ 35.30	\$ 35.30	\$ 35.17	\$ 35.27	\$ 34.52	\$ 34.81	\$ 34.81	\$ 35.29	\$ 35.29	\$ 35.13	\$ 35.57
1/1/2039 12:00:00 AM	2/1/2039 12:00:00 AM	\$ 53.46	\$ 53.79	\$ 53.79	\$ 53.65	\$ 53.76	\$ 53.00	\$ 53.29	\$ 53.29	\$ 53.77	\$ 53.77	\$ 53.62	\$ 54.06
2/1/2039 12:00:00 AM	3/1/2039 12:00:00 AM	\$ 48.71	\$ 49.04	\$ 49.04	\$ 48.90	\$ 49.01	\$ 48.25	\$ 48.54	\$ 48.54	\$ 49.02	\$ 49.02	\$ 48.87	\$ 49.31
3/1/2039 12:00:00 AM	4/1/2039 12:00:00 AM	\$ 39.51	\$ 39.84	\$ 39.84	\$ 39.70	\$ 39.81	\$ 39.06	\$ 39.35	\$ 39.35	\$ 39.83	\$ 39.83	\$ 39.67	\$ 40.11
4/1/2039 12:00:00 AM	5/1/2039 12:00:00 AM	\$ 37.29	\$ 37.62	\$ 37.62	\$ 37.48	\$ 37.59	\$ 36.83	\$ 37.12	\$ 37.12	\$ 37.60	\$ 37.60	\$ 37.45	\$ 37.89
5/1/2039 12:00:00 AM	6/1/2039 12:00:00 AM	\$ 29.41	\$ 29.73	\$ 29.73	\$ 29.60	\$ 29.70	\$ 28.95	\$ 29.24	\$ 29.24	\$ 29.72	\$ 29.72	\$ 29.56	\$ 30.00
6/1/2039 12:00:00 AM	7/1/2039 12:00:00 AM	\$ 30.72	\$ 31.05	\$ 31.05	\$ 30.91	\$ 31.02	\$ 30.26	\$ 30.55	\$ 30.55	\$ 31.03	\$ 31.03	\$ 30.88	\$ 31.32



7/1/2039 12:00:00 AM	8/1/2039 12:00:00 AM	\$ 34.06	\$ 34.38	\$ 34.38	\$ 34.25	\$ 34.35	\$ 33.60	\$ 33.89	\$ 33.89	\$ 34.37	\$ 34.37	\$ 34.21	\$ 34.65
8/1/2039 12:00:00 AM	9/1/2039 12:00:00 AM	\$ 33.35	\$ 33.67	\$ 33.67	\$ 33.54	\$ 33.64	\$ 32.89	\$ 33.18	\$ 33.18	\$ 33.66	\$ 33.66	\$ 33.50	\$ 33.94
9/1/2039 12:00:00 AM	10/1/2039 12:00:00 AM	\$ 29.31	\$ 29.63	\$ 29.63	\$ 29.50	\$ 29.60	\$ 28.85	\$ 29.14	\$ 29.14	\$ 29.62	\$ 29.62	\$ 29.46	\$ 29.90
10/1/2039 12:00:00 AM	11/1/2039 12:00:00 AM	\$ 32.54	\$ 32.87	\$ 32.87	\$ 32.73	\$ 32.84	\$ 32.08	\$ 32.37	\$ 32.37	\$ 32.85	\$ 32.85	\$ 32.70	\$ 33.14
11/1/2039 12:00:00 AM	12/1/2039 12:00:00 AM	\$ 34.26	\$ 34.58	\$ 34.58	\$ 34.45	\$ 34.55	\$ 33.80	\$ 34.09	\$ 34.09	\$ 34.57	\$ 34.57	\$ 34.41	\$ 34.85
12/1/2039 12:00:00 AM	1/1/2040 12:00:00 AM	\$ 35.77	\$ 36.10	\$ 36.10	\$ 35.96	\$ 36.07	\$ 35.32	\$ 35.61	\$ 35.61	\$ 36.09	\$ 36.09	\$ 35.93	\$ 36.37
1/1/2040 12:00:00 AM	2/1/2040 12:00:00 AM	\$ 53.91	\$ 54.24	\$ 54.24	\$ 54.10	\$ 54.21	\$ 53.46	\$ 53.75	\$ 53.75	\$ 54.23	\$ 54.23	\$ 54.07	\$ 54.51
2/1/2040 12:00:00 AM	3/1/2040 12:00:00 AM	\$ 49.12	\$ 49.45	\$ 49.45	\$ 49.31	\$ 49.42	\$ 48.67	\$ 48.96	\$ 48.96	\$ 49.44	\$ 49.44	\$ 49.28	\$ 49.72
3/1/2040 12:00:00 AM	4/1/2040 12:00:00 AM	\$ 39.85	\$ 40.17	\$ 40.17	\$ 40.04	\$ 40.14	\$ 39.39	\$ 39.68	\$ 39.68	\$ 40.16	\$ 40.16	\$ 40.00	\$ 40.44
4/1/2040 12:00:00 AM	5/1/2040 12:00:00 AM	\$ 37.61	\$ 37.93	\$ 37.93	\$ 37.80	\$ 37.90	\$ 37.15	\$ 37.44	\$ 37.44	\$ 37.92	\$ 37.92	\$ 37.76	\$ 38.20
5/1/2040 12:00:00 AM	6/1/2040 12:00:00 AM	\$ 29.66	\$ 29.98	\$ 29.98	\$ 29.85	\$ 29.95	\$ 29.20	\$ 29.49	\$ 29.49	\$ 29.97	\$ 29.97	\$ 29.81	\$ 30.25
6/1/2040 12:00:00 AM	7/1/2040 12:00:00 AM	\$ 30.98	\$ 31.31	\$ 31.31	\$ 31.17	\$ 31.28	\$ 30.53	\$ 30.82	\$ 30.82	\$ 31.30	\$ 31.30	\$ 31.14	\$ 31.58
7/1/2040 12:00:00 AM	8/1/2040 12:00:00 AM	\$ 34.35	\$ 34.67	\$ 34.67	\$ 34.54	\$ 34.64	\$ 33.89	\$ 34.18	\$ 34.18	\$ 34.66	\$ 34.66	\$ 34.50	\$ 34.94
8/1/2040 12:00:00 AM	9/1/2040 12:00:00 AM	\$ 33.63	\$ 33.96	\$ 33.96	\$ 33.82	\$ 33.93	\$ 33.18	\$ 33.47	\$ 33.47	\$ 33.95	\$ 33.95	\$ 33.79	\$ 34.23
9/1/2040 12:00:00 AM	10/1/2040 12:00:00 AM	\$ 29.56	\$ 29.88	\$ 29.88	\$ 29.75	\$ 29.85	\$ 29.10	\$ 29.39	\$ 29.39	\$ 29.87	\$ 29.87	\$ 29.71	\$ 30.15
10/1/2040 12:00:00 AM	11/1/2040 12:00:00 AM	\$ 32.82	\$ 33.14	\$ 33.14	\$ 33.01	\$ 33.11	\$ 32.36	\$ 32.65	\$ 32.65	\$ 33.13	\$ 33.13	\$ 32.97	\$ 33.41
11/1/2040 12:00:00 AM	12/1/2040 12:00:00 AM	\$ 34.55	\$ 34.87	\$ 34.87	\$ 34.74	\$ 34.84	\$ 34.09	\$ 34.38	\$ 34.38	\$ 34.86	\$ 34.86	\$ 34.70	\$ 35.14
12/1/2040 12:00:00 AM	1/1/2041 12:00:00 AM	\$ 36.08	\$ 36.40	\$ 36.40	\$ 36.27	\$ 36.37	\$ 35.62	\$ 35.91	\$ 35.91	\$ 36.39	\$ 36.39	\$ 36.23	\$ 36.67







24480                    28128 52608                    46.5%                    53.5%

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