

Fact Sheet: FUEL ISLAND

Looking at the Numbers . . .

At a recent Trustee meeting the topic of rebuilding the fuel island came up. The tables below show a summary of the Township's fuel costs from 2016 through 2018. They show a cost savings in buying fuel from the local distributor, particularly in the off-road diesel which is not available at the local gas stations. The trustees will use these numbers along with cost estimates of a new fuel island to assess the cost-effectiveness of building a new fuel island versus utilizing the local gas stations. See the attached spreadsheets for the data the tables are based on.

87 Octane Fuel		
July 28, 2016 – November 21, 2018		
Gallons purchased: 5,056.5	181 gallons/month	2,172 gallons/year
Average difference between Centerra's price per gallon and *USEIA's average price per gallon for the Midwest region		\$0.15
Figuring in Circle K/Marathon's 10¢ discount		\$0.05
January 6, 2018 – November 21, 2018		
Average difference between Centerra's price per gallon and GasBuddy's average price per gallon for the Cleveland / Akron region		\$0.06
Figuring in Circle K/Marathon's 10¢ discount		-\$0.04
B2 Diesel		
January 27, 2016 – October 25, 2018		
Gallons purchased: 8,481.2	249 gallons/month	2,988 gallons/year
Average difference between Centerra's price per gallon and USEIA's average price per gallon for the Midwest region		\$0.31
Figuring in Circle K/Marathon's 10¢ discount		\$0.21
B2 Torquemaster (Off-Road Diesel)		
January 27, 2016 – October 25, 2018		
Gallons purchased: 3,299	97 gallons/month	1,164 gallons/year
Average difference between Centerra's price per gallon and USEIA's average price per gallon for the Midwest region		\$0.51
Figuring in Circle K/Marathon's 10¢ discount		\$0.41

* USEIA – United States Energy Information Administration

Given the Numbers . . .

It would take approximately **5** years to pay off the fuel island with a **\$5,000** price tag and **10** years at **\$10,000**.



87 Octane Fuel																
Date	Type	Price Per Gallon	Gallons	Total Gas	Fee	Total	Unit Price	USEIA Date	USEIA Price	Difference	Difference minus 10¢	GasBuddy date	GasBuddy	Difference	Difference minus 10¢	
7/28/2016	87 Octane Gasoline	\$1.5350	149.9	\$230.10	\$41.97	\$272.07	1.8150	7/25/2016	2.078	0.26	0.16					
9/8/2016	87 Octane Gasoline	\$1.6350	147.4	\$241.00	\$41.27	\$282.27	1.9150	9/26/2016	2.144	0.23	0.13					
10/31/2016	87 Octane Gasoline	\$1.6350	125.4	\$205.03	\$35.11	\$240.14	1.9150	10/31/2016	2.018	0.10	0.00					
11/16/2016	87 Octane Gasoline	\$1.6350	115.6	\$189.01	\$32.37	\$221.38	1.9150	11/14/2016	1.994	0.08	-0.02					
11/23/2016	87 Octane Gasoline	\$1.6950	40.2	\$68.14	\$11.26	\$79.40	1.9751	11/21/2016	2.014	0.04	-0.06					
12/6/2016	87 Octane Gasoline	\$1.7350	12.2	\$21.17	\$3.42	\$24.59	2.0153	12/5/2016	2.107	0.09	-0.01					
12/13/2016	87 Octane Gasoline	\$1.7350	140.8	\$244.29	\$39.42	\$283.71	2.0150	12/12/2016	2.162	0.15	0.05					
12/22/2016	87 Octane Gasoline	\$1.7850	100.6	\$179.57	\$28.17	\$207.74	2.0650	12/19/2016	2.192	0.13	0.03					
12/27/2016	87 Octane Gasoline	\$1.8950	9.6	\$18.19	\$2.69	\$20.88	2.1752	12/26/2016	2.280	0.10	0.00					
1/6/2017	87 Octane Gasoline	\$1.8951	100.5	\$190.46	\$28.14	\$218.60	2.1751	1/9/2017	2.344	0.17	0.07					
1/13/2017	87 Octane Gasoline	\$1.9350	85.6	\$165.64	\$23.97	\$189.61	2.2150	1/16/2017	2.283	0.07	-0.03					
1/20/2017	87 Octane Gasoline	\$1.7950	34.2	\$61.39	\$9.58	\$70.97	2.0751	1/23/2017	2.219	0.14	0.04					
1/27/2017	87 Octane Gasoline		57.8	\$0.00		\$0.00	2.0750	1/30/2017	2.168	0.09	-0.01					
2/6/2017	87 Octane Gasoline		100.2	\$0.00		\$0.00	2.0750	2/6/2017	2.181	0.11	0.01					
2/17/2017	87 Octane Gasoline		80	\$0.00		\$0.00	2.0750	2/20/2017	2.190	0.12	0.01					
3/1/2017	87 Octane Gasoline	\$1.7950	71.7	\$128.70	\$20.08	\$148.78	2.0751	2/27/2017	2.210	0.13	0.03					
3/13/2017	87 Octane Gasoline	\$1.7550	130	\$228.15	\$36.40	\$264.55	2.0350	3/13/2017	2.217	0.18	0.08					
3/24/2017	87 Octane Gasoline	\$1.7550	95	\$166.73	\$26.60	\$193.33	2.0350	3/27/2017	2.184	0.15	0.05					
3/30/2017	87 Octane Gasoline	\$1.7550	53.4	\$93.72	\$14.95	\$108.67	2.0350	4/3/2017	2.279	0.24	0.14					
4/11/2017	87 Octane Gasoline	\$1.8950	84.6	\$160.32	\$23.69	\$184.01	2.1750	4/10/2017	2.361	0.19	0.09					
4/21/2017	87 Octane Gasoline	\$1.9350	37.8	\$73.14	\$10.58	\$83.72	2.2149	4/24/2017	2.358	0.14	0.04					
5/1/2017	87 Octane Gasoline	\$1.8950	66.7	\$126.40	\$18.68	\$145.08	2.1751	5/1/2017	2.290	0.11	0.01					
5/11/2017	87 Octane Gasoline	\$1.8350	55.2	\$101.29	\$15.46	\$116.75	2.1151	5/8/2017	2.232	0.12	0.02					
5/22/2017	87 Octane Gasoline	\$1.8950	60	\$113.70	\$16.80	\$130.50	2.1750	5/22/2017	2.315	0.14	0.04					
5/26/2017	87 Octane Gasoline	\$1.9350	30.2	\$58.44	\$8.46	\$66.90	2.2151	5/29/2017	2.301	0.09	-0.01					
7/3/2017	87 Octane Gasoline	\$1.7350	80.1	\$138.97	\$22.43	\$161.40	2.0150	7/3/2017	2.139	0.12	0.02					
7/13/2017	87 Octane Gasoline	\$1.7350	58.3	\$101.15	\$16.32	\$117.47	2.0149	7/10/2017	2.225	0.21	0.11					
7/25/2017	87 Octane Gasoline	\$1.7950	110	\$197.45	\$30.80	\$228.25	2.0750	7/24/2017	2.213	0.14	0.04					
8/4/2017	87 Octane Gasoline	\$1.8750	40.1	\$75.19	\$11.23	\$86.42	2.1550	8/7/2017	2.284	0.13	0.03					
8/15/2017	87 Octane Gasoline	\$1.8350	36.8	\$67.53	\$10.30	\$77.83	2.1149	8/14/2017	2.299	0.18	0.08					
8/25/2017	87 Octane Gasoline	\$1.7950	50.1	\$89.93	\$14.03	\$103.96	2.0750	8/28/2017	2.307	0.23	0.13					
9/6/2017	87 Octane Gasoline	\$2.0350	85.1	\$173.18	\$23.83	\$197.01	2.3150	9/4/2017	2.539	0.22	0.12					
9/18/2017	87 Octane Gasoline	\$1.9550	70.8	\$138.41	\$19.82	\$158.23	2.2349	9/18/2017	2.446	0.21	0.11					
10/4/2017	87 Octane Gasoline	\$1.9350	107.5	\$208.01	\$30.10	\$238.11	2.2150	10/2/2017	2.402	0.19	0.09					
10/25/2017	87 Octane Gasoline	\$1.9250	70.1	\$134.94	\$19.63	\$154.57	2.2050	10/23/2017	2.394	0.19	0.09					
11/22/2017	87 Octane Gasoline	\$2.1950	125.4	\$275.25	\$35.11	\$310.36	2.4750	11/20/2017	2.497	0.02	-0.08					
12/7/2017	87 Octane Gasoline	\$1.9450	100.8	\$196.06	\$28.22	\$224.28	2.2250	12/4/2017	2.357	0.13	0.03					
12/22/2017	87 Octane Gasoline	\$1.9450	97.8	\$190.22	\$27.38	\$217.60	2.2250	12/18/2017	2.324	0.10	0.00					
12/29/2017	87 Octane Gasoline	\$2.0350	169.1	\$344.12	\$47.35	\$391.47	2.3150	12/25/2017	2.409	0.09	-0.01					
1/6/2018	87 Octane Gasoline	\$2.0350	128.7	\$261.90	\$36.04	\$297.94	2.3150	1/8/2018	2.428	0.11	0.01	1/6/2018	2.36	0.04	-0.06	
1/19/2018	87 Octane Gasoline	\$1.9950	95.8	\$191.12	\$26.82	\$217.94	2.2750	1/22/2018	2.469	0.19	0.09	1/12/2018	2.3	0.03	-0.07	
1/31/2018	87 Octane Gasoline	\$1.9950	53.5	\$106.73	\$14.98	\$121.71	2.2750	1/29/2018	2.510	0.24	0.14	1/31/2018	2.38	0.11	0.00	
2/13/2018	87 Octane Gasoline	\$1.9550	98.8	\$193.15	\$27.66	\$220.81	2.2350	2/12/2018	2.463	0.23	0.13	2/19/2018	2.16	-0.07	-0.17	
2/27/2018	87 Octane Gasoline	\$1.9550	70.7	\$138.22	\$19.80	\$158.02	2.2351	2/26/2018	2.405	0.17	0.07	2/19/2018	2.16	-0.08	-0.18	
3/12/2018	87 Octane Gasoline	\$1.9550	95	\$185.73	\$26.60	\$212.33	2.2350	3/12/2018	2.439	0.20	0.10	3/10/2018	2.36	0.13	0.03	
3/16/2018	87 Octane Gasoline	\$1.9750	50	\$98.75	\$14.00	\$112.75	2.2550	3/19/2018	2.495	0.24	0.14	3/10/2018	2.36	0.11	0.00	
4/2/2018	87 Octane Gasoline	\$2.0350	62.1	\$126.37	\$17.39	\$143.76	2.3150	4/2/2018	2.565	0.25	0.15	3/29/2018	2.4	0.08	-0.02	
4/16/2018	87 Octane Gasoline	\$2.1750	96.9	\$210.76	\$27.13	\$237.89	2.4550	4/16/2018	2.602	0.15	0.05	4/17/2018	2.54	0.09	-0.01	
5/2/2018	87 Octane Gasoline	\$2.2350	60.3	\$134.77	\$16.88	\$151.65	2.5149	4/30/2018	2.724	0.21	0.11	5/6/2018	2.6	0.09	-0.01	
5/16/2018	87 Octane Gasoline	\$2.3850	40.1	\$95.64	\$11.23	\$106.87	2.6650	5/14/2018	2.782	0.12	0.02	5/16/2018	2.8	0.13	0.03	
5/29/2018	87 Octane Gasoline	\$2.4150	51.8	\$125.10	\$14.50	\$139.60	2.6949	5/28/2018	2.881	0.19	0.09	5/24/2018	2.8	0.11	0.01	
6/19/2018	87 Octane Gasoline	\$2.2950	125.1	\$287.10	\$35.03	\$322.13	2.5750	6/18/2018	2.791	0.22	0.12	6/12/2018	2.7	0.12	0.02	
7/2/2018	87 Octane Gasoline	\$2.2350	126.5	\$282.73	\$35.42	\$318.15	2.5150	7/2/2018	2.762	0.25	0.15	7/7/2018	2.67	0.16	0.06	
7/18/2018	87 Octane Gasoline	\$2.3250	100	\$232.50	\$28.00	\$260.50	2.6050	7/16/2018	2.796	0.19	0.09	7/20/2018	2.6	0.00	-0.11	
7/31/2018	87 Octane Gasoline	\$2.3350	67.7	\$158.08	\$18.96	\$177.04	2.6151	7/30/2018	2.767	0.15	0.05	8/1/2018	2.8	0.18	0.08	
8/14/2018	87 Octane Gasoline	\$2.2950	39.6	\$90.88	\$11.09	\$101.97	2.5751	8/13/2018	2.748	0.17	0.07	8/14/2018	2.72	0.14	0.04	
8/28/2018	87 Octane Gasoline	\$2.3350	61.5	\$143.60	\$17.22	\$160.82	2.6150	8/27/2018	2.760	0.15	0.05	8/26/2018	2.72	0.11	0.01	
9/1/2018	87 Octane Gasoline	\$2.3350	71.6	\$167.19	\$20.05	\$187.24	2.6150	9/3/2018	2.731	0.12	0.02	9/6/2018	2.66	0.04	-0.06	
9/28/2018	87 Octane Gasoline	\$2.2850	100.3	\$229.19	\$28.08	\$257.27	2.5650	10/1/2018	2.790	0.23	0.13	10/3/2018	2.8	0.24	0.14	
10/17/2018	87 Octane Gasoline	\$2.3350	87	\$203.15	\$24.36	\$227.51	2.6150	10/15/2018	2.758	0.14	0.04	10/16/2018	2.57	-0.04	-0.15	
10/29/2018	87 Octane Gasoline	\$2.2850	40.8	\$93.23	\$11.42	\$104.65	2.5649	10/29/2018	2.680	0.12	0.02	10/28/2018	2.5	-0.06	-0.16	
11/21/2018	87 Octane Gasoline	\$2.1850	155.1	\$338.89	\$43.43	\$382.32	2.4650	11/19/2018	2.417	-0.05	-0.15	11/23/2018	2.23	-0.24	-0.34	
			5065.5								0.15	0.05			0.06	-0.04
										Average	Average			Average	Average	

B2 Diesel											
Date	Type	Price Per Gallon	Gallons	Total Gas	Fee	Total	Unit Price	USEIA Date	USEIA Price	Difference	Difference minus 10¢
1/27/2016	B2 Soy ULSD	\$1.3650	610.7	833.6055	171.00	1,004.61	1.6450	1/25/2016	1.987	0.34	0.24
3/23/2016	B2 Soy ULSD	\$1.5350	600	921	168.00	1,089.00	1.8150	3/21/2016	2.09	0.28	0.18
5/18/2016	B2 Soy ULSD	\$1.6650	680.7	1133.3655	190.60	1,323.97	1.9450	5/16/2016	2.271	0.33	0.23
7/13/2016	B2 Soy ULSD		471.6	0		0.00	2.0150	7/11/2016	2.385	0.37	0.27
9/8/2016	B2 Soy ULSD	\$1.7150	391.5	671.4225	109.62	781.04	1.9950	9/12/2016	2.376	0.38	0.28
11/1/2016	B2 Soy ULSD	\$1.7350	312.8	542.708	87.58	630.29	2.0150	11/14/2016	2.387	0.37	0.27
12/6/2016	B2 Soy ULSD	\$1.8850	143.5	270.4975	40.18	310.68	2.1650	12/5/2016	2.431	0.27	0.17
12/22/2016	B2 Soy ULSD	\$1.9350	276.5	535.0275	77.42	612.45	2.2150	12/19/2016	2.446	0.23	0.13
1/31/2017	B2 Soy ULSD		375.9	0		0.00	2.2150	1/30/2017	2.5	0.29	0.19
3/13/2017	B2 Soy ULSD	\$1.9350	340.5	658.8675	95.34	754.21	2.2150	3/13/2017	2.491	0.28	0.18
3/30/2017	B2 Soy ULSD	\$1.9350	100.2	193.887	28.06	221.95	2.2150	3/27/2017	2.458	0.24	0.14
5/26/2017	B2 Soy ULSD	\$1.9350	343.2	664.092	96.10	760.19	2.2150	5/29/2017	2.512	0.30	0.20
7/25/2017	B2 Soy ULSD	\$1.8650	411.6	767.634	115.25	882.88	2.1450	7/25/2017	2.452	0.31	0.21
9/19/2017	B2 Soy ULSD	\$2.1350	369	787.815	103.32	891.14	2.4150	9/18/2017	2.743	0.33	0.23
11/21/2017	B2 Soy ULSD	\$2.2750	380.3	865.1825	106.48	971.66	2.5550	11/20/2017	2.873	0.32	0.22
1/6/2018	B2 Soy ULSD	\$2.3950	464.6	1112.717	130.09	1,242.81	2.6750	1/8/2018	2.947	0.27	0.17
1/19/2018	B2 Soy ULSD	\$2.4350	280.4	682.774	78.51	761.28	2.7150	1/22/2018	2.971	0.26	0.16
3/16/2018	B2 Soy ULSD	\$2.2950	538.2	1235.169	150.70	1,385.87	2.5750	3/19/2018	2.898	0.32	0.22
5/11/2018	B2 Soy ULSD	\$2.5650	348.4	893.646	97.55	991.20	2.8450	5/14/2018	3.175	0.33	0.23
7/6/2018	B2 Soy ULSD	\$2.5150	330.4	830.956	92.51	923.47	2.7950	7/9/2018	3.176	0.38	0.28
8/28/2018	B2 Soy ULSD	\$2.5350	310.6	787.371	86.97	874.34	2.8150	8/27/2018	3.153	0.34	0.24
10/25/2018	B2 Soy ULSD	\$2.6650	400.6	1067.599	112.17	1,179.77	2.9450	10/22/2018	3.333	0.39	0.29
			8481.2							0.31	0.21
			Total							Average	Average

B2 Torquemaster (Off-Road Diesel)											
Date	Type	Price Per Gallon	Gallons	Total Gas	Fee	Total	Unit Price	USEIA Date	USEIA Price	Difference	Difference minus 10¢
1/27/2016	B2 Torquemaster	\$1.5690	46.7	\$73.27		\$73.27	1.5690	1/25/2016	1.987	0.42	0.32
3/23/2016	B2 Torquemaster	\$1.7190	103.1	\$177.23		\$177.23	1.7190	3/21/2016	2.09	0.37	0.27
5/18/2016	B2 Torquemaster	\$1.7790	21.7	\$38.60		\$38.60	1.7790	5/16/2016	2.271	0.49	0.39
7/13/2016	B2 Torquemaster		420.9	\$0.00		\$790.87	1.8790	7/11/2016	2.385	0.51	0.41
9/8/2016	B2 Torquemaster	\$1.7790	100.2	\$178.26		\$178.26	1.7790	9/12/2016	2.376	0.60	0.50
11/1/2016	B2 Torquemaster	\$1.8190	526.6	\$957.89		\$957.89	1.8190	11/14/2016	2.387	0.57	0.47
12/6/2016	B2 Torquemaster	\$1.9390	94.0	\$182.27		\$182.27	1.9390	12/5/2016	2.431	0.49	0.39
5/26/2017	B2 Torquemaster	\$2.0890	125.7	\$262.59		\$262.59	2.0890	5/29/2017	2.512	0.42	0.32
7/25/2017	B2 Torquemaster	\$1.9590	280.1	\$548.72		\$548.72	1.9590	7/25/2017	2.452	0.49	0.39
9/19/2017	B2 Torquemaster	\$2.1490	210.4	\$452.15		\$452.15	2.1490	9/18/2017	2.743	0.59	0.49
11/21/2017	B2 Torquemaster	\$2.3690	161.0	\$381.41		\$381.41	2.3690	11/20/2017	2.873	0.50	0.40
3/16/2018	B2 Torquemaster	\$2.4990	200.0	\$499.80		\$499.80	2.4990	3/19/2018	2.898	0.40	0.30
5/11/2018	B2 Torquemaster	\$2.7190	125.2	\$340.42		\$340.42	2.7190	5/14/2018	3.175	0.46	0.36
7/2/2018	B2 Torquemaster	\$2.5490	430.0	\$1,096.07		\$1,096.07	2.5490	7/9/2018	3.176	0.63	0.53
8/28/2018	B2 Torquemaster	\$2.5490	162.1	\$413.19		\$413.19	2.5490	8/27/2018	3.153	0.60	0.50
10/25/2018	B2 Torquemaster	\$2.7090	291.3	\$789.13		\$789.13	2.7090	10/22/2018	3.333	0.62	0.52
			3,299.0							0.51	0.41
			Total							Average	Average