

**Benton Area School District**  
**Biomass Reconciliation - Fuel Usage**

<u>School Year</u>	<u>Date Purchased</u>	<u>Company</u>	<u>Gallons Purchased</u>	<u>Per Gallon</u>	<u>Amount</u>
<b>2003-2004</b>	12/3/2003	Buckeye Energy Services LLC	7601.00	\$ 0.8285	\$ 6,297.43
	12/2/2003	Buckeye Energy Services LLC	7602.00	\$ 0.8285	6,298.26
	12/29/2003	Buckeye Energy Services LLC	7600.00	\$ 0.8285	6,296.60
	1/22/2004	Buckeye Energy Services LLC	7601.00	\$ 0.8285	6,297.43
	1/23/2004	Buckeye Energy Services LLC	7002.00	\$ 0.8285	5,801.16
	2/19/2004	Buckeye Energy Services LLC	7603.00	\$ 0.8285	6,299.09
	3/4/2004	Buckeye Energy Services LLC	7600.00	\$ 0.8285	6,296.60
	3/31/2004	Buckeye Energy Services LLC	7601.00	\$ 0.8285	6,297.53
				<b>60,210.00</b>	
<b>2004-2005</b>	10/21/2004	Buckeye Energy Services LLC	6000.90	\$ 1.0815	\$ 6,490.08
	10/21/2004	Buckeye Energy Services LLC	7500.00	\$ 1.0815	8,111.25
	12/18/2004	Buckeye Energy Services LLC	7600.00	\$ 1.0815	8,219.40
	1/10/2005	Buckeye Energy Services LLC	7600.90	\$ 1.0815	8,220.48
	1/24/2005	Buckeye Energy Services LLC	7600.00	\$ 1.0815	8,219.40
	3/7/2005	Buckeye Energy Services LLC	7600.00	\$ 1.0815	8,219.40
	2/22/2005	Buckeye Energy Services LLC	7600.90	\$ 1.0815	8,220.48
	5/2/2005	Buckeye Energy Services LLC	7000.00	\$ 1.0815	7,570.50
	5/9/2005	Buckeye Energy Services LLC	7600.90	\$ 1.0815	8,220.48
			<b>66,103.60</b>		<b>\$ 71,491.47</b>
<b>2005-2006</b>	7/18/2005	Bear Fuel Service	141.00	\$ 1.6900	\$ 235.69
	11/29/2005	Buckeye Energy Services LLC	7604.90	\$1.5495	11,783.80
	12/15/2005	Buckeye Energy Services LLC	7604.90	\$1.5495	11,783.80
	1/23/2006	Buckeye Energy Services LLC	7604.90	\$1.5495	11,783.80
	2/13/2006	Buckeye Energy Services LLC	7604.90	\$1.5495	11,783.80
	3/27/2006	Buckeye Energy Services LLC	7604.90	\$1.5495	11,783.80
	5/1/2006	Buckeye Energy Services LLC	7604.90	\$1.5495	11,783.80
			<b>45,770.40</b>		<b>\$ 70,938.49</b>

## Benton Area School District

<u>School Year</u>	<u>Date</u>	<u>Company</u>	<u>Gallons</u>	<u>Per</u>	<u>Amount</u>
2006-2007	<u>Purchased</u>		<u>Purchased</u>	<u>Gallon</u>	
	10/6/2006	Hoyts Fuel Service	248.00	\$ 1.9500	\$ 493.60
	10/31/2006	Hoyts Fuel Service	183.90	\$ 2.0500	376.99
	11/8/2006	Hoyts Fuel Service	7598.00	\$ 1.7480	13,281.30
	11/28/2006	Hoyts Fuel Service	117.30	\$ 1.9500	228.74
	11/29/2006	Hoyts Fuel Service	172.10	\$ 1.9500	335.59
	12/4/2006	Hoyts Fuel Service	183.20	\$ 2.0500	375.56
	12/18/2006	Hoyts Fuel Service	206.40	\$ 2.0000	412.80
	12/22/2006	Buckeye Energy Services LLC	7600.00	\$ 2.3235	17,658.60
	12/28/2006	Hoyts Fuel Service	150.10	\$ 1.9500	292.70
	1/12/2007	Buckeye Energy Services LLC	7600.00	\$ 2.3235	17,658.60
	1/10/2007	Hoyts Fuel Service	120.20	\$ 1.8500	222.37
	1/23/2007	Hoyts Fuel Service	152.10	\$ 1.8500	281.39
	2/5/2006	Hoyts Fuel Service	200.50	\$ 2.0500	401.00
	2/12/2007	Buckeye Energy Services LLC	7600.00	\$ 2.3235	17,658.60
	2/12/2007	Hoyts Fuel Service	130.60	\$ 2.1000	274.26
	2/20/2007	Buckeye Energy Services LLC	7602.00	\$ 2.3235	17,663.25
	2/24/2007	Hoyts Fuel Service	195.00	\$ 2.0500	399.75
	3/12/2007	Hoyts Fuel Service	229.20	\$ 2.1000	481.32
	3/28/2007	Hoyts Fuel Service	160.00	\$ 2.1000	336.63
	4/13/2007	Hoyts Fuel Service	138.00	\$ 2.1500	296.70
	4/16/2007	Buckeye Energy Services LLC	7601.00	\$ 2.3235	17,660.92
	4/17/2007	Buckeye Energy Services LLC	7602.00	\$ 2.3235	17,633.25
	5/7/2007	Hoyts Fuel Service	<u>59.90</u>	\$ 2.2000	<u>131.78</u>
			<b>55,849.50</b>		<b>\$ 124,555.70</b>

## Benton Area School District

<u>School Year</u>	<u>Date Purchased</u>	<u>Company</u>	<u>Gallons Purchased</u>	<u>Per Gallon</u>	<u>Amount</u>
2007-2008	10/24/2007	Hoyts Fuel Service	5.00	\$ 2.6000	13.00
	11/23/2007	Buckeye Energy Services LLC	7000.00	\$ 2.0985	14,689.50
	11/23/2007	Hoyts Fuel Service	153.30	\$ 2.9000	444.57
	12/6/2007	Hoyts Fuel Service	130.60	\$ 2.9000	378.74
	12/18/2007	Hoyts Fuel Service	131.40	\$ 2.9000	381.06
	12/18/2007	Buckeye Energy Services LLC	7600.00	\$ 2.0985	15,948.60
	1/2/2008	Hoyts Fuel Service	168.20	\$ 2.9500	496.19
	1/4/2008	Hoyts Fuel Service	33.60	\$ 3.1000	100.80
	1/4/2008	Hoyts Fuel Service	107.80	\$ 3.0000	323.40
	1/7/2008	Buckeye Energy Services LLC	7129.70	\$ 2.0985	14,961.60
	1/28/2008	Hoyts Fuel Service	155.40	\$ 2.9500	458.43
	2/9/2008	Hoyts Fuel Service	157.00	\$ 2.9000	455.30
	2/14/2008	Buckeye Energy Services LLC	7600.00	\$ 2.0985	15,948.60
	2/18/2008	Buckeye Energy Services LLC	7601.00	\$ 2.0985	15,950.70
	2/29/2008	Hoyts Fuel Service	165.90	\$ 3.4500	572.26
	3/7/2008	Hoyts Fuel Service	142.40	\$ 3.3000	469.92
	3/24/2008	Hoyts Fuel Service	98.40	\$ 3.4500	339.48
	4/15/2008	Buckeye Energy Services LLC	7200.00	\$ 2.0985	15,109.20
	5/9/2008	Buckeye Energy Services LLC	5602.00	\$ 3.5840	20,077.57
	5/9/2008	Buckeye Energy Services LLC	1998.00	\$ 2.0985	4,192.81
	6/5/2008	Hoyts Fuel Service	111.00	\$ 3.6000	399.60
			<b>53,290.70</b>		<b>\$ 121,711.33</b>

## Benton Area School District

<u>School Year</u>	<u>Date Purchased</u>	<u>Company</u>	<u>Gallons Purchased</u>	<u>Per Gallon</u>	<u>Amount</u>
2008-2009	9/10/2008	Hoyts Fuel Service	82.90	\$ 3.5500	\$ 294.30
	10/24/2008	Hoyts Fuel Service	7600.00	\$ 2.1250	16,150.00
	11/13/2008	Hoyts Fuel Service	170.60	\$ 2.5000	443.56
	12/2/2008	Hoyts Fuel Service	226.20	\$ 2.2000	497.64
	12/17/2008	Hoyts Fuel Service	147.10	\$ 1.9000	279.49
	12/23/2008	Buckeye Energy Services	7678.00	\$ 3.1659	24,307.78
	12/24/2008	Buckeye Energy Services	7681.00	\$ 3.1659	24,317.28
	12/26/2008	Hoyts Fuel Service	159.70	\$ 1.8500	295.45
	1/5/2009	Hoyts Fuel Service	148.60	\$ 1.8500	274.91
	1/15/2009	Hoyts Fuel Service	194.30	\$ 2.0500	398.32
	1/22/2009	Hoyts Fuel Service	86.50	\$ 2.0500	177.33
	1/30/2009	Hoyts Fuel Service	135.70	\$ 2.0000	271.40
	2/2/2009	Buckeye Energy Services	7703.00	\$ 3.1659	24,386.92
	2/9/2009	Hoyts Fuel Service	7600.00	\$ 1.5060	11,445.60
	2/9/2009	Hoyts Fuel Service	166.40	\$ 1.9500	324.48
	2/18/2009	Hoyts Fuel Service	108.80	\$ 1.8500	201.28
	3/2/2009	Hoyts Fuel Service	149.00	\$ 1.8000	268.20
	3/16/2009	Hoyts Fuel Service	160.40	\$ 1.7000	272.68
	3/30/2009	Hoyts Fuel Service	7500.00	\$ 1.5560	11,670.00
	4/6/2009	Hoyts Fuel Service	186.50	\$ 1.8500	345.03
5/12/2009	Hoyts Fuel Service	<u>7501.00</u>	\$ 1.5500	<u>11,626.55</u>	
			<b>55,385.70</b>		<b>\$ 128,248.20</b>
2004-2009	Gallons	336,609.90 divided by 6 = Average Gallons	56,101.65		

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<u>School Year</u>	<u>Date Purchased</u>	<u>Company</u>	<u>Gallons Purchased</u>	<u>Per Gallon</u>	<u>Amount</u>	
2009-2010	10/19/2009	Hoyts Fuel Service	7600.00	\$ 2.0880	\$ 15,868.80	
	10/19/2009	Hoyts Fuel Service	244.40	\$ 1.2500	549.90	
	11/10/2009	Hoyts Fuel Service	235.70	\$ 2.4000	565.68	
	12/2/2009	Hoyts Fuel Service	203.30	\$ 2.4000	487.92	
	12/14/2009	Hoyts Fuel Service	185.80	\$ 2.3500	436.63	
	12/22/2009	Hoyts Fuel Service	90.00	\$ 2.3500	211.50	
	12/31/2009	Hoyts Fuel Service	54.50	\$ 2.5000	136.25	
	1/5/2010	Hoyts Fuel Service	6999.00	\$ 2.3000	16,097.70	
	1/4/2010	Hoyts Fuel Service	7000.00	\$ 2.3000	16,100.00	
	1/20/2010	Hoyts Fuel Service	19.60	\$ 2.5500	49.98	
	1/20/2010	Hoyts Fuel Service	128.90	\$ 2.6000	335.14	
	2/16/2010	Hoyts Fuel Service	3.500	\$ 2.4000	8.40	
	2/4/2010	Hoyts Fuel Service	245.80	\$ 2.4500	602.21	
	3/18/2010	Hoyts Fuel Service	222.30	\$ 2.5000	555.75	
	5/6/2010	Hoyts Fuel Service	<u>7300.00</u>	\$ 2.2680	<u>16,556.40</u>	
				<b>30,532.80</b>		<b>\$ 68,562.26</b>
	2009-2010		<b>Switchgrass Purchased</b>	<u>Tons</u>	<u>Per Ton</u>	<u>Amount</u>
2/24/2010		Aaron Bartholomew	11.0000	\$ 54.5455	\$ 600.00	
2/24/2010		Andrew Wodhouse	11.0000	54.5444	600.00	
2/26/2011		William Hess Farm LLC	7.2625	40.0000	290.40	
		<b>Total Switchgrass Costs</b>	<b>29.2625</b>		<b>\$ 1,490.40</b>	
7/20/2010		Pocono RC&D - Check #2229 Switchgrass Reimb.			(1,440.00)	
		<b>Total Switchgrass Purchase Costs</b>			<b>\$ 50.40</b>	
07/01/09 - 6/30/10		<b>Storage Switchgrass - Fritz Farms</b>	Monthly	\$ 500.0000	\$ 6,000.00	
		<b>Total Switchgrass &amp; Storage</b>			<b>\$ 6,050.40</b>	
		Free Switchgrass - Pocono RC&D & Ernst Seed Co.	<u>218.060</u>			
	<b>Total Tons of Switchgrass Burned 2009-2010</b>	<b>247.323</b>				

School Year  
2009-2010

Continued

Gallons Used and Price 2009-2010			\$ 68,562.26
Total Switchgrass Costs - 2009-2010			<u>6,050.40</u>
Total Heating Costs 2009-2010			\$ 74,612.66

2003-2004 - 2008-2009

Average Gallons @ Average Price Per Gallon	56,101.65		
2009-2010 Average Per Gallon Price		\$ 2.2455	
Average Gallon Costs			\$ 125,977.83
Less Total Heating Costs 2009-2010			\$ 74,612.66
Total Savings 2009-2010			<b>\$ 51,365.17</b>

Gallons Saved	25,568.85		
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2010-2011	9/14/2010	Bear Fuel Service	212.70	\$ 2.2500	478.58
	9/22/2010	Bear Fuel Service	48.60	\$ 2.4500	119.07
	10/11/2010	Bear Fuel Service	2942.00	\$ 2.3270	6,846.03
	10/11/2020	Bear Fuel Service	4615.00	\$ 2.3270	10,739.11
	11/10/2010	Hoyts Fuel Service	158.70	\$ 2.7000	
	11/22/2010	Bear Fuel Service	7604.00	\$ 2.3800	18,097.52
	11/30/2010	Hoyts Fuel Service	229.90	\$ 2.7000	620.73
	12/10/2010	Hoyts Fuel Service	193.10	\$ 2.8000	540.68
	12/13/2010	Hoyts Fuel Service	70.50	\$ 2.8500	200.93
	12/21/2010	Bear Fuel Service	189.00	\$ 2.9000	549.26
	12/21/2010	Bear Fuel Service	189.40	\$ 2.9000	549.26
	12/23/2010	Hoyts Fuel Service	17.10	\$ 2.9500	52.16
	12/12/2010	Bear Fuel Service	189.40	\$ 2.9000	549.26
	1/7/2011	Bear Fuel Service	195.40	\$ 2.8800	562.75
	1/4/2010	Hoyts Fuel Service	7502.00	\$ 2.6800	20,142.87
	1/13/2010	Hoyts Fuel Service	224.10	\$ 3.0500	683.51
	1/24/2010	Hoyts Fuel Service	7500.00	\$ 2.7800	20,850.00
	1/31/2011	Hoyts Fuel Service	173.10	\$ 3.1000	536.61
	1/31/2000	Hoyts Fuel Service	5.40	\$ 3.2000	17.31
	2/14/2011	Hoyts Fuel Service	218.40	\$ 3.2000	698.88
	2/28/2011	Hoyts Fuel Service	176.60	\$ 3.3000	589.38
	3/14/2011	Hoyts Fuel Service	98.30	\$ 3.5000	344.05
	3/30/2011	Hoyts Fuel Service	140.40	\$ 3.5000	491.40
	4/11/2011	Hoyts Fuel Service	7600.00	\$ 3.2780	24,825.00
	4/13/2011	Hoyts Fuel Service	7500.00	\$ 3.3100	24,585.00
	4/25/2011	Hoyts Fuel Service	<u>167.00</u>	\$ 3.6000	<u>601.20</u>
			<b>48,160.10</b>		<b>\$ 134,270.55</b>

## Benton Area School District

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	4/11/2011	Gallons In Tank Not Used	5600.00	\$ 3.2780	\$ 18,356.80
	4/13/2011	Gallons In Tank Not Used	<u>6000.00</u>	\$ 3.3310	<u>19,986.00</u>
			<b>11,600.00</b>		<b>\$ 38,342.80</b>
		<b>Net Gallons Used and Price 2010-2011</b>	<b>36,560.10</b>	<b>\$ 2.7972</b>	<b>\$ 102,265.91</b>
<b>2010-2011</b>		<b>Switchgrass Purchased</b>	<b><u>Tons</u></b>	<b><u>Per Ton</u></b>	
	10/21/2010	Michael Boone	11.2900	\$ 70.0000	\$ 790.30
	11/6/2010	Fritz Trucking - Free Switchgrass - Penn State	16.5000	\$ 70.0000	1,155.00
		Fritz Trucking - 88 Bales - Wodruf	23.7844	\$ 41.2000	980.00
	11/006/11	Joe Wodruf	23.7844	\$ 70.0000	1,644.91
	1/4/2011	Andrew Wodehouse + Weigh Slips \$6.35	28.1450	\$ 80.0000	2,398.68
	1/3/2011	Aaron Bartholomew	28.1450	\$ 80.0000	2,392.33
	1/7/2011	J E Bowman Trucking	56.2900	\$ 23.0620	<u>1,298.16</u>
		<b>Total Switchgrass Purchased Costs</b>			<b>\$ 10,659.38</b>
		Pocono RC&D - Switchgrass Reimb. - Due August			<u>(13,768.33)</u>
		<b>Total Switchgrass Purchase Costs</b>			<b>\$ (3,108.95)</b>
		<b>Densification Fees</b>			
	12/31/2010	Renewable Energy Resources	23.0625	\$ 90.0000	2,075.63
	1/14/2011	Renewable Energy Resources	21.1070	\$ 90.0000	1,899.63
	1/29/2011	Renewable Energy Resources	15.8304	\$ 90.0000	1,424.74
	2/3/2011	Renewable Energy Resources	9.11456	\$ 90.0000	820.31
	2/12/2011	Renewable Energy Resources	14.2350	\$ 90.0000	1,281.15
	3/7/2021	Renewable Energy Resources	<u>8.9000</u>	\$ 90.0000	<u>801.00</u>
			92.2495		<b>\$ 8,302.46</b>
		Free Switchgrass - Ernst Seed Co.	<u>99.3700</u>		
		<b>Total Tons of Switchgrass Burned 2010-2011</b>	<b>191.6195</b>		

**Total Switchgrass & Densification 2010-2011** **\$ 5,193.51**  
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**School Year**  
**2010-2011**

7/1/10 - 10/7/10 **Storage Switchgrass - Fritz Farms** Monthly \$ 500.0000 **\$ 2,000.00**  
**Total Switchgrass Costs** **\$ 7,193.51**

**Net Gallons Used and Price 2010-2011** - **\$ 102,265.51**  
**Total Switchgrass Costs - 2010-2011** 7,193.51  
**Total Heating Costs 2010-2011** **\$ 109,459.02**

**2003-2004 - 2008-2009**

Average Gallons @ Average Price Per Gallon 56,101.65  
 2010-2011 Average Per Gallon Price \$ 2.7972  
**Average Gallon Costs** **\$ 156,927.54**

Total Heating Costs 2010-2011 109,459.02  
**Total Savings 2010-2011** **\$ 47,468.52**

Gallons Saved 19,541.39

2009-2010  
 2010-2011

Tons of Switchgrass Burned 247.3230  
 Tons of Switchgrass Burned 191.6195  
**Total Two Year Tons of Switchgrass Burned** **438.9425**

**Average of Two Year Tons of Switchgrass Burned** 219.47125

Future Forecast:

**2003-2004 - 2008-2009**

Average Gallons @ Average Price Per Gallon 56,101.65 \$ 2.7972 \$ 156,927.54

**SWITCHGRASS**

Average Net Gallons Used 2009-10 - 2011-12 33,546.45 \$ 2.7972 \$ 93,836.13

Average Tons of Switchgrass to Be Burned 219.4713 \$ 160.0000 \$ 35,115.40

**Estimated Heating Costs 2011-2013 \$ 128,951.53**

**Estimaged Savings Switchgrass Versus Oil \$ 27,976.01**

**2003-2004 - 2008-2009**

Average Gallons @ Average Price Per Gallon 56,101.65 \$ 2.7972 \$ 156,927.54

**Woodchips**

Average Net Gallons Used 2009-10 - 2011-12 33,546.45 \$ 2.7972 \$ 93,836.13

Average of Woodchip Tons 900.0000 \$ 31.6250 \$ 28,462.50

**Estimated Heating Costs 2011-2013 \$ 122,298.63**

**Estimaged Savings Woodchips Versus Oil \$ 34,628.91**

**Note: Woodchips are \$8.00/Ton and \$23.625/Ton Trucking**