

**Brewster’s Pay-As-You-Throw Program**  
**Quarterly Report (Q1 Calendar Year 2015)**

**Presented to:**        **Brewster Board of Selectmen**

**Prepared by:**        **Brewster Recycling Commission, Brewster DPW, David Quinn**  
**(Barnstable County/MassDEP)**

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**Submission Date:**   **May 5, 2015**

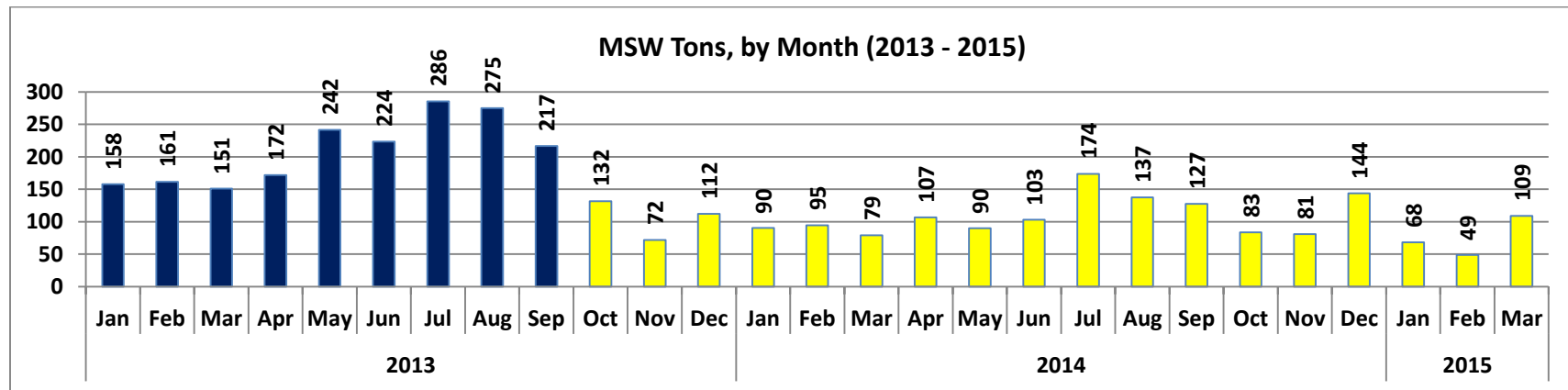
In October 2013, the Town of Brewster began a new solid waste management program called Pay-As-You-Throw (PAYT), in which residents utilizing the Brewster Recycling Center are required to dispose of their trash in official town trash bags. In December 2014, the Brewster Recycling Commission issued a detailed “Full-Year PAYT” report that highlighted the early success of the program in reducing trash and increasing recycling.

At the request of the Brewster Board of Selectmen, the Recycling Commission offered to provide written quarterly updates on the PAYT program, including data on trash and recycling tonnage, PAYT bag sales, and other relevant information. This initial report includes updated PAYT data through and including the first quarter of calendar year 2015 (January, February, and March).

Hereafter, this quarterly report shall be submitted within 30 days of the last day of the prior quarter.

**Trash Tonnage:**

As expected, monthly trash tonnages continue to be significantly lower than prior to the start of PAYT. The total trash collected at the Recycling Center during the first quarter of 2015 (226 tons) was less than the same months in 2014 (264 tons). During the first quarter of 2015, Brewster did experience more severe winter weather than normal, which made it difficult for residents to get to the Recycling Center and may partially explain the lower trash numbers for January and February in particular; however, the average for the 3 months is 13 tons less than the average for the same months in 2014. The following chart shows MSW tonnages by month for over the past three calendar years; the yellow columns represent months after PAYT was started.



The tables on the following pages show monthly data for MSW and recycling managed at the Brewster Recycling Center in 2014 and 2015 (Calendar Years), including tonnage, tipping fees, and transportation costs.

Brewster PAYT Report – Q1 CY 2015

Calender 2014 MSW Report	Month	MSW tons	Base Tip Fee	SEMASS invoice	MTCP credits	# trips	Roundtrip miles	Deisel cost per gallon	Transportation cost
1st Quarter	Jan-14	90.31	\$45.00	\$4,063.95	(2665.25)	4	101	\$3.19	\$1,288.76
	Feb-14	94.68	\$45.00	\$4,260.60	(2651.20)	4	101	\$3.19	\$1,288.76
	Mar-14	79.33	\$45.00	\$3,569.85	(2637.16)	3	101	\$3.19	\$966.57
2nd Quarter	Apr-14	106.82	\$45.00	\$4,806.90	(2623.11)	4	101	\$3.19	\$1,288.76
	May-14	90.12	\$45.00	\$4,055.40	(2609.07)	4	101	\$3.19	\$1,288.76
	Jun-14	102.97	\$45.00	\$4,633.65	(2595.04)	5	101	\$3.19	\$1,610.95
3rd Quarter	Jul-14	173.91	\$45.00	\$7,825.95	(2580.99)	7	101	\$3.19	\$2,255.33
	Aug-14	137.38	\$45.00	\$6,182.10	(2566.95)	5	101	\$3.19	\$1,610.95
	Sep-14	127.45	\$45.00	\$5,735.25	(2552.89)	5	101	\$3.19	\$1,610.95
4th Quarter	Oct-14	83.47	\$45.00	\$3,756.15	(2538.84)	3	101	\$3.19	\$966.57
	Nov-14	81.13	\$45.00	\$3,650.85	(2524.80)	3	101	\$3.19	\$966.57
	Dec-14	143.75	\$45.00	\$6,468.75	(2509.16)	7	101	\$3.19	\$2,255.33
<b>Yearly Totals</b>	12 months	1311.32	\$45.00	\$59,009.40	(\$31,054.46)	54	5454	\$3.19	\$17,398.26
								2014 cost of MSW	\$45,353.20

Calender 2015 MSW Report	Month	MSW tons	Base Tip Fee	SEMASS invoice	MTCP credits	# trips	Roundtrip miles	Deisel cost per gallon	Transportation cost
1st Quarter	Jan-15	68.25	\$70.00	\$4,777.50	0.00	3	101	\$3.19	\$966.57
	Feb-15	49.01	\$70.00	\$3,437.00	0.00	4	101	\$3.19	\$1,288.76
	Mar-15	109.04	\$70.00	\$7,632.80	0.00	5	101	\$3.19	\$1,610.95
2nd Quarter	Apr-15							\$3.19	\$0.00
	May-15							\$3.19	\$0.00
	Jun-15							\$3.19	\$0.00
3rd Quarter	Jul-15							\$3.19	\$0.00
	Aug-15							\$3.19	\$0.00
	Sep-15							\$3.19	\$0.00
4th Quarter	Oct-15							\$3.19	\$0.00
	Nov-15							\$3.19	\$0.00
	Dec-15							\$3.19	\$0.00
<b>Yearly Totals</b>	12 months	226.3		\$15,847.30	\$0.00	12	0	\$3.19	\$3,866.28
								2015 cost of MSW	\$19,713.58

**Recycling Tonnage:**

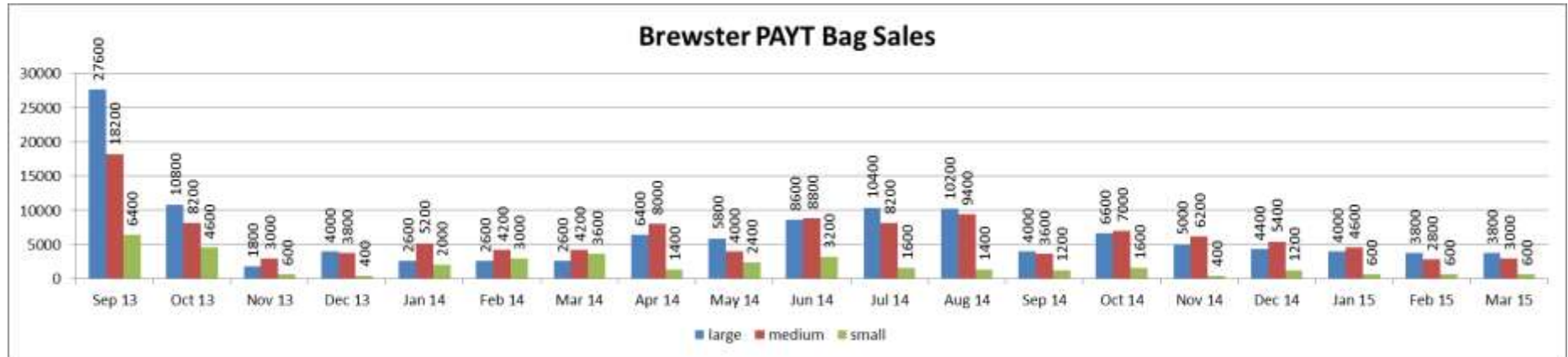
Similar to trash tonnage, recycling number are slightly lower in the first quarter of 2015 than they were in 2014. This may be partially due to the severe winter.

2014 Calender	Month	Card board	Trips	Mixed paper	Trips	Co-mingle	Trips	Mixed glass	Trips	Monthly recycle totals
1st Quarter	January-14	5.25	1	33.23	4	9.78	3	19.35	1	67.61
	February-14	0	0	44.9	5	6.9	2	11.91	2	63.71
	March-14	5.94	1	27.1	3	10.9	3	11.02	1	54.96
1st quarter total tonnage		<b>11.19</b>	<b>2</b>	<b>105.23</b>	<b>12</b>	<b>27.58</b>	<b>8</b>	<b>42.28</b>	<b>4</b>	<b>186.28</b>
2nd Quarter	April-14	0	0	55.9	6	10.9	4	20.86	1	87.66
	May-14	6.15	1	38.6	4	12.6	3	9.99	2	67.34
	June-14	7.88	2	47.2	5	14.1	4	20.71	1	89.89
2nd quarter total tonnage		<b>14.03</b>	<b>3</b>	<b>141.7</b>	<b>15</b>	<b>37.6</b>	<b>11</b>	<b>51.56</b>	<b>4</b>	<b>244.89</b>
3rd Quarter	July-14	5.73	1	64.30	8	16.10	5	20.71	4	106.84
	August-14	5.72	1	43.70	5	12.60	4	29.27	3	91.29
	September-14	17.72	4	44.68	5	22.87	5	0	3	85.27
3rd quarter total tonnage		<b>29.17</b>	<b>6</b>	<b>152.68</b>	<b>18</b>	<b>51.57</b>	<b>14</b>	<b>49.98</b>	<b>10</b>	<b>283.40</b>
4th Quarter	October-14	7.40	4	30.50	5	17.30	5	17.93	2	73.13
	November-14	5.06	4	27.90	4	7.25	2	18.46	2	58.67
	December-14	5.34	5	53.41	6	11.72	7	8.70	2	79.17
4th Quarter total tonnage		<b>17.80</b>	<b>13</b>	<b>111.81</b>	<b>15.00</b>	<b>36.27</b>	<b>14.00</b>	<b>45.09</b>	<b>6</b>	<b>210.97</b>
Calender year tonnage		<b>72.19</b>	<b>24</b>	<b>511.42</b>	<b>60</b>	<b>153.02</b>	<b>47</b>	<b>188.91</b>	<b>24</b>	<b>925.54</b>

2015 Calender	Month	Card board	Trips	Mixed paper	Trips	Co-mingle	Trips	Mixed glass	Trips	Monthly recycle totals
1st Quarter	January-15	2.76	7	30.5	4	10	3	17.69	2	60.95
	February-15	2.9	2	27.9	4	4.6	3	7.63	1	43.03
	March-15	2.88	3	34.9	4	10.6	3	20.21	2	68.59
1st quarter total tonnage		<b>8.54</b>	<b>12</b>	<b>93.3</b>	<b>12</b>	<b>25.2</b>	<b>9</b>	<b>45.53</b>	<b>5</b>	<b>172.57</b>
2nd Quarter	April-15									
	May-15									
	June-15									
2nd quarter total tonnage										
3rd Quarter	July-15									
	August-15									
	September-15									
3rd quarter total tonnage										
4th Quarter	October-15									
	November-15									
	December-15									
4th Quarter total tonnage										
Calender year tonnage		<b>8.54</b>	<b>12</b>	<b>93.30</b>	<b>12</b>	<b>25.20</b>	<b>9</b>	<b>45.53</b>	<b>5</b>	<b>172.57</b>

**PAYT Bags Sales:**

Bags sales in the first quarter of 2015 remained consistent with similar off-season months over the past year. As expected, bags sales peaked in the summer months and then slowed in the off-season. The below tables provide details about the number of bags sold for each month since PAYT began.



The following tables provide additional details on bag sales. The numbers of large, medium, and small bags are shown as cases. Each case contains 200 bags.

Calender 2013	Month	Cases of Large Bags	Cases of Medium Bags	Cases of Small Bags	Town Expense	Town Revenue
1st Quarter	Jan 13					
	Feb 13					
	Mar 13					
2nd Quarter	Apr 13					
	May 13					
	Jun 13					
3rd Quarter	Jul 13					
	Aug 13					
	Sep 13	138	91	32	\$10,763.48	
4th Quarter	Oct 13	54	41	23	\$4,670.02	\$64,700
	Nov 13	9	15	3	\$1,032.42	\$34,500
	Dec 13	20	19	2	\$1,686.88	\$13,600
<b>Yearly Totals</b>	<b>12 months</b>	<b>221</b>	<b>166</b>	<b>60</b>	<b>\$18,153</b>	<b>\$112,800</b>
		<b>49.44%</b>	<b>37.14%</b>	<b>13.42%</b>		

Calender 2014	Month	Cases of Large Bags	Cases of Medium Bags	Cases of Small Bags	Town Expense	Town Revenue
1st Quarter	Jan 14	13	26	10	\$1,787.00	\$11,000
	Feb 14	13	21	15	\$1,749.70	\$19,700
	Mar 14	13	21	18	\$1,828.72	\$4,400
2nd Quarter	Apr 14	32	40	7	\$3,123.58	\$8,100
	May 14	29	20	12	\$2,430.48	\$15,700
	Jun 14	43	44	16	\$4,041.44	\$20,000
3rd Quarter	Jul 14	52	41	8	\$4,175.72	\$32,000
	Aug 14	51	47	7	\$4,302.58	\$24,700
	Sep 14	20	18	6	\$1,758.44	\$33,200
4th Quarter	Oct 14	33	35	8	\$3,136.60	\$16,302
	Nov 14	25	31	2	\$2,422.40	\$11,206
	Dec 14	22	27	6	\$2,237.50	\$20,004
<b>Yearly Totals</b>	<b>12 months</b>	<b>346</b>	<b>371</b>	<b>115</b>	<b>\$32,994</b>	<b>\$216,312</b>
		<b>41.59%</b>	<b>44.59%</b>	<b>13.82%</b>		

Calendar 2015	Month	Cases of Large Bags	Cases of Medium Bags	Cases of Small Bags	Town Expense	Town Revenue
1st Quarter	Jan 15	20	23	3	\$1,913.12	\$11,400
	Feb 15	19	14	3	\$1,546.96	\$14,800
	Mar 15	19	15	3	\$1,581.94	N/A
2nd Quarter	Apr 15					
	May 15					
	Jun 15					
3rd Quarter	Jul 15					
	Aug 15					
	Sep 15					
4th Quarter	Oct 15					
	Nov 15					
	Dec 15					
<b>Yearly Totals</b>	<b>12 months</b>	<b>58</b>	<b>52</b>	<b>9</b>	<b>\$5,042</b>	<b>\$26,200</b>
		<b>48.74%</b>	<b>43.70%</b>	<b>7.56%</b>		

**Notes:**

- Covanta Contract: The Town of Brewster is in the process of negotiating a contract with Covanta to deliver MSW and some recyclable materials to the Yarmouth Regional Transfer Station rather than directly to SEMASS. This has the potential to reduce transportation costs for MSW and recycling. There are, however, some logistical challenges to delivering material to Yarmouth, specifically scheduling has been an issue due to the size of the facility.
- Recycling Equipment: The Town's 2014 Fall Special Town Meeting appropriated funding to purchase additional equipment – 2 open top containers (\$13,000), 4 closed top containers (\$29,650), and 2 Compactors (\$45,900). The Town has purchased and received all the containers but is still waiting on some of the compactor equipment. The installation of the compactors is anticipated to take place before the summer season.