

2003 RECYCLING DATA AND ECONOMIC VALUE

Since the Commonwealth statewide met the 35% recycling goal in 2002, no recycling rate has been calculated for individual counties for 2003. We have instead focused on the achievement of counties by their population and the economic benefit that can be derived through their efforts. Pennsylvania recycled a total of 4,448,987 tons in 2003, of which 1.4 million tons are potentially worth in excess of \$50,000,000. If the remaining 3.3 million tons of other materials are valued at even half this, the total would be over \$68,000,000. This does not include the estimated value of avoided disposal, which has been calculated as \$78,220,128 for the materials for which prices are available and \$240,245,276 for the total 4.4 million tons at the statewide average of \$54.00 per ton.

CODE	COUNTY	POPULATION 2000	RECYCLED TONS	RECYCLED LBS/P/D	DISPOSAL TONS	DISPOSAL LBS/P/D
01	ADAMS	91,292	24,973.40	1.50	61,589.9	3.70
02	ALLEGHENY	1,281,666	173,818.40	0.74	1,201,302.2	5.14
03	ARMSTRONG	72,392	13,754.70	1.04	37,653.9	2.85
04	BEAVER	181,412	52,500.30	1.59	107,065.5	3.23
05	BEDFORD	49,984	3,460.90	0.38	23,309.9	2.56
06	BERKS	373,638	63,085.20	0.93	297,455.4	4.36
07	BLAIR	129,144	27,565.00	1.17	120,740.7	5.12
08	BRADFORD	62,761	12,577.00	1.10	25,337.8	2.21
09	BUCKS	597,635	153,300.80	1.41	355,389.0	3.26
10	BUTLER	174,083	61,827.80	1.95	116,136.0	3.66
11	CAMBRIA	152,598	16,505.50	0.59	95,095.5	3.41
12	CAMERON	5,974	59.8	0.05	3,701.1	3.39
13	CARBON	58,802	4,257.60	0.40	15,987.6	1.49
14	CENTRE	135,758	126,062.00	5.09	108,347.0	4.37
15	CHESTER	433,501	198,524.30	2.51	390,245.5	4.93
16	CLARION	41,765	6,963.30	0.91	26,361.0	3.46
17	CLEARFIELD	83,382	11,184.70	0.74	57,629.7	3.79
18	CLINTON	37,914	8,866.20	1.28	26,224.7	3.79
19	COLUMBIA	64,151	26,644.70	2.28	49,860.1	4.26
20	CRAWFORD	90,366	14,204.00	0.86	51,090.7	3.10
21	CUMBERLAND	213,674	64,953.70	1.67	183,403.5	4.70
22	DAUPHIN	251,798	48,618.80	1.06	216,400.8	4.71
23	DELAWARE	550,864	180,695.00	1.80	495,053.3	4.92
24	ELK	35,112	16,698.20	2.61	22,789.7	3.56
25	ERIE	280,843	200,188.50	3.91	186,116.8	3.63
26	FAYETTE	148,644	27,361.40	1.01	80,183.4	2.96
27	FOREST	4,946	0	0.00	3,638.2	4.03
28	FRANKLIN	129,313	30,332.60	1.29	92,958.6	3.94
29	FULTON	14,261	87.7	0.03	5,864.6	2.25

30	GREENE	40,672	583.2	0.08	23,729.5	3.20
31	HUNTINGDON	45,586	8,529.00	1.03	22,214.1	2.67
32	INDIANA	89,605	9,320.60	0.57	41,013.1	2.51
33	JEFFERSON	45,932	9,038.40	1.08	26,778.5	3.19
34	JUNIATA	22,821	16,190.20	3.89	12,611.2	3.03
35	LACKAWANNA	213,295	85,664.70	2.20	244,034.0	6.27
36	LANCASTER	470,658	175,047.10	2.04	337,173.1	3.93
37	LAWERENCE	94,643	11,505.30	0.67	21,929.3	1.27
38	LEBANON	120,327	50,050.10	2.28	80,727.3	3.68
39	LEHIGH	312,090	157,640.60	2.77	313,932.0	5.51
40	LUZERNE	319,250	161,694.70	2.78	242,143.6	4.16
41	LYCOMING	120,044	42,607.40	1.94	88,868.0	4.06
42	MCKEAN	45,936	808.3	0.10	26,912.0	3.21
43	MERCER	120,293	28,396.00	1.29	69,447.5	3.16
44	MIFFLIN	46,486	10,924.90	1.29	22,842.5	2.69
45	MONROE	138,687	39,937.30	1.58	110,846.5	4.38
46	MONTGOMERY	750,097	264,469.80	1.93	830,487.3	6.07
47	MONTOUR	18,236	2,418.30	0.73	9,264.8	2.78
48	NORTHAMPTON	267,066	87,011.20	1.79	225,471.3	4.63
49	NORTHUMBERLAND	94,556	23,762.10	1.38	73,603.7	4.27
50	PERRY	43,602	955	0.12	13,491.8	1.70
51	PHILADELPHIA	1,517,550	1,090,270.00	3.94	1,802,001.8	6.51
52	PIKE	46,302	3,722.00	0.44	12,102.7	1.43
53	POTTER	18,080	8,745.70	2.65	128.8	0.04
54	SCHUYLKILL	150,336	58,672.10	2.14	147,051.2	5.36
55	SNYDER	37,546	4,971.00	0.73	14,490.4	2.11
56	SOMERSET	80,023	3047.9	0.21	51,521.5	3.53
57	SULLIVAN	6,556	661.6	0.55	1,212.2	1.01
58	SUSQUEHANNA	42,238	3,676.60	0.48	19,188.4	2.49
59	TIOGA	41,373	5,219.60	0.69	13,666.6	1.81
60	UNION	41,624	5,961.50	0.78	24,321.2	3.20
61	VENANGO	57,565	6,021.10	0.57	37,255.4	3.55
62	WARREN	43,863	18,272.60	2.28	9,376.2	1.17
63	WASHINGTON	202,897	48,345.50	1.31	140,777.4	3.80
64	WAYNE	47,722	8,374.30	0.96	60,744.1	6.97
65	WESTMORELAND	369,993	51,710.10	0.77	265,401.8	3.93
66	WYOMING	28,080	6,236.40	1.22	11,515.8	2.25
67	YORK	381,751	291,406.00	4.18	296,611.9	4.26
	TOTAL	12,281,054	4,370,940	1.95	10,201,821	4.55

There are, in addition to the above totals, 78,046.9 tons that were recycled and reported by organizations other than counties.

The economic benefit of recycling accomplished in 2003 can be assessed in part from the data received on specific materials compared to the Commodity Pricing as of January 7, 2005 reflecting 2004 pricing, as published on the website of Waste News Magazine. The list below shows an economic benefit to Pennsylvania of over \$50,000,000. In addition, the avoided cost of disposal of these materials at the most recent average tipping fee of \$54.00 per tons would be over \$78,000,000.

The total recycling tonnage for 2003, of course, represents a much greater benefit. This is by no means the total benefit of recycling in that these materials account for just over one of the four million tons recycled. A breakdown of this analysis on a county basis will be placed on the DEP website in the near future.

MATERIALS	TONS	PRICE	TOTAL
STEEL CANS	20,229	\$62.00	\$1,254,216.60
WHITE GOODS	99,146	\$62.00	\$6,147,052.00
ALUMINUM CANS	18,144	\$40.00	\$725,760.00
CLEAR GLAS	17,060	\$26.00	\$443,549.60
AMBER GLASS	6,957	\$11.00	\$76,530.30
PET	3,432	\$19.00	\$65,202.30
HDPE	3,660	\$26.00	\$95,152.20
NEWS NO 6	267,915	\$35.00	\$9,377,035.50
CORRUGATED	702,292	\$38.00	\$26,687,096.00
MIXED RESIDENTIAL	251,157	\$8.00	\$2,009,252.80
SORTED OFFICE PAPER	58,529	\$55.00	\$3,219,117.00
TOTAL	1,448,521		\$50,099,964.30

Prices are average New York as reported Jan 7, 2005, reflecting 2004 prices.

Archived prices are available but not necessarily reliable.

Data does not include mixed or commingled or single stream tonnage.

AVOIDED DISPOSAL AT \$54 PER TON \$78,220,128.60

ECONOMIC IMPACT – PENNSYLVANIA

Pennsylvania's recycling and reuse industry leads the nation in employment, payroll and sales. The more than 3,200 recycling businesses in Pennsylvania employ more than 81,000 people, generate over \$18 billion in sales, pay \$2.9 billion in payroll and \$30.5 million in taxes annually.

ECONOMIC IMPACT - NATIONAL

The U.S. Recycling Economic Information (REI) Study of 2001 is unprecedented in that it quantifies the importance of recycling and reuse to the U.S. economy. The study, commissioned by the U.S. Environmental Protection Agency (EPA) and numerous states through a cooperative

agreement with the National Recycling Coalition, clearly shows what many have known for a long time - recycling works.

Nationally, more than 56,000 recycling and reuse establishments employ more than 1.1 million people, with a total annual payroll of approximately \$37 billion. The average wage for those workers was \$32,700-- \$3,000 more than the national average wage. Total annual sales receipts for these industries are \$236 billion. Pennsylvania's employment, payroll and sales numbers are higher than any other state's. Specifically, Pennsylvania leads in the glass, metals, paper, plastic and rubber recycling industries.

Pennsylvania's recycling industries further had an indirect effect on the economy, estimated at \$1.8 billion, and a direct impact on the tax base, contributing \$305 million. The study also reports that 3.5 percent of Pennsylvania's jobs can be attributed to the recycling and reuse industry. A downloadable copy of the full report is available at EPA's website:

<http://www.epa.gov/jtr/econ/rei-rw/result.htm>