

Butler County Landfill

The Butler County Landfill is located in Butler County, MO., approximately 10 miles north of Poplar Bluff. It is owned and operated by Allied Waste Industries Inc. The disposal facility covers 80 acres and is permitted to accept all municipal solid waste (MSW) and some Other wastes such as contaminated soils and waste water treatment sludge.

Butler County Landfill accepted 101,087 tons in 1996, 127,575 tons in 1997 and 122,185 tons in 1998. The landfill operation was observed from Monday October 5th through Friday October 9th. The weather was rainy on Monday and Tuesday but fair the remainder of the week. The rain seemed to reduce construction and demolition waste during the period. Observation took place from 7 AM till 4:30 PM on the above dates. During the observation period, 182 trucks, delivered 2,077 tons of waste to the landfill. All loads were observed and recorded. The landfill staff felt the material received during the observation period was typical of material received year round.

Each driver was asked where the load originated. This was done to determine in what classification (MSW, construction, demolition, industrial, or Other) the load should be recorded. However, most loads could be classified visually, without any driver data.

The Butler County Landfill accepts waste from three transfer stations. The St. Francois County Environmental Corp. in Park Hills, the Tri County transfer station in the bootheel area, and the City of Fredericktown transfer station in Fredericktown. These three sources represented 27% (46 trailers and roll-offs) of the traffic and 55% of the total waste. There were some demolition materials observed and recorded in these transfer loads but the overwhelming majority of the transfer station waste was MSW.

The Total Waste Stream - 2,077 tons

The total waste stream was predominately Municipal Solid Waste (MSW). The source of the MSW portion is primarily residential, institutional, and light commercial waste. The MSW was delivered to the landfill in transfer trailers and local packer trucks.

Total waste received during the observation period was 2,077 tons. The components of the waste stream were estimated as they were unloaded. These components are listed below.

Waste Stream Components

MSW	Const.	Demo	Industrial	Other
76%	2%	8%	5%	9%
1586 tons	39 tons	161 tons	109 tons	180 tons

Municipal Solid Waste - 1,586 tons

Municipal Solid Waste (MSW) accounted for 76% of the total waste stream. MSW materials were not estimated during the observation period because the items are very small and normally contained within plastic bags. However, three MSW sorts were conducted at the Butler County landfill in 1997. During the three waste sorts 32 samples, weighing an average of 255 pounds each, were examined. Each of these samples were hand sorted into six major categories and 26 sub categories. The sorted materials were recorded by weight and volume. Further details are available in the *Missouri Waste Composition Study: Municipal Solid Waste*.

The total MSW received during the observation period was 1586 tons. The percentage of each major material category found in the 1997 sort was applied to the tonnage received during the observation period and is displayed below.

Municipal Solid Waste Components

Paper	Glass	Metals	Plastics	Organics	Inorganics
36%	5.5%	8.1%	14.3%	31.1%	4.5%
573 tons	87 tons	128 tons	227 tons	493 tons	71 tons

Construction Waste - 39 tons

About 2% of the total waste received was from new construction sources. Construction waste loads were usually transported to the landfill in open top roll-off containers, dump trucks, or open trailers. The area served by the landfill is not a fast growing area and open burning is permitted in most municipalities and all counties. Both of these factors may have contributed to the low amount of construction waste. The construction loads tended to be lighter, less weathered, more homogeneous (all wood, dry wall, etc), and contained more cardboard boxes (usually from fixtures) than the demolition waste loads.

Total construction waste received during the observation period was 39 tons. The materials within the construction waste stream were estimated as they were unloaded. These estimated materials are listed below.

Construction Waste Components

Wood	Dry Wall	Masonry	Metal	Plas.	OCC	Other
37%	43%	0%	0%	0%	7%	13%
14 tons	17 tons	0 tons	0 tons	0 tons	3 tons	5 tons

Demolition Waste - 161 tons

About 8% of the total waste was from demolition sources. Demolition waste loads were usually transported to the landfill in open top roll-off containers, dump trucks, or open trailers. Almost

half (49%) of the of the demolition waste was roofing shingles. Roofing waste was typically delivered to the landfill by independent contractors and was not mixed with other materials. The remaining demolition loads contained more mixed materials. The wood was more weathered, there was very little if any cardboard, and there was more masonry materials (brick, concrete blocks, rock and dirt) in the demolition waste as compared to the construction waste.

Total demolition waste received during the observation period was 161 tons. The materials within the demolition waste stream were estimated as they were unloaded. These estimated materials are listed below.

The Demolition Waste Component

Wood	Dry Wall	Roof	Masonry	Metal	Carpet	Other
14%	23%	49%	3%	1%	10%	0%
23 tons	37 tons	77 tons	5 tons	0 tons	16 tons	0 tons

Industrial Waste - 267 tons

Industrial waste loads were usually transported to the landfill in open top roll-off containers or compactor units. They were normally homogeneous, containing single waste products from a manufacturing process. The rubber waste was defective auto hose material from gates and the textile was from a furniture manufacturer. The "other" industrial waste was rock dust, black char, and firebricks from local manufacturers.

Total industrial waste received during the observation period was 267 tons. The materials within the industrial waste stream were estimated as they were unloaded. These estimated materials are listed below.

The Industrial Waste Component

Cardbrd	Paper	Food	Metal	Wood	Plas.	Tex.	Rbr.	Other
3%	2%	0%	0%	3%	3%	10%	19%	59%
9 tons	5 tons	0 tons	0 tons	7 tons	9 tons	28 tons	51 tons	158 tons

Other Waste - 22 tons

Other wastes were defined as waste which did not fit into one of the above categories or was handled differently at the landfill (i.e. soil-like materials used for daily cover, asbestos, etc.).

Bulky items include furniture, mattresses, appliances, etc.

Total Other waste received during the observation period was 22 tons. The materials within the Other waste stream were estimated as they were unloaded. These estimated materials are listed below.

The Other Waste Component

Bulky
100%
22 tons

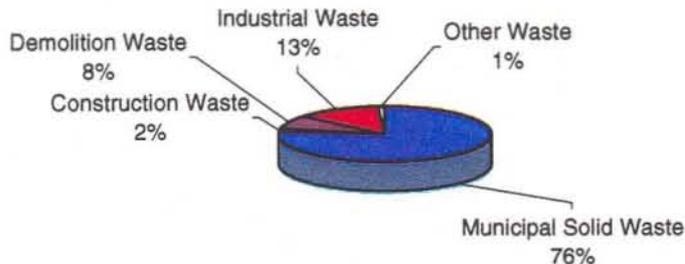
BUTLER COUNTY LANDFILL

122,185 TONS IN 1998

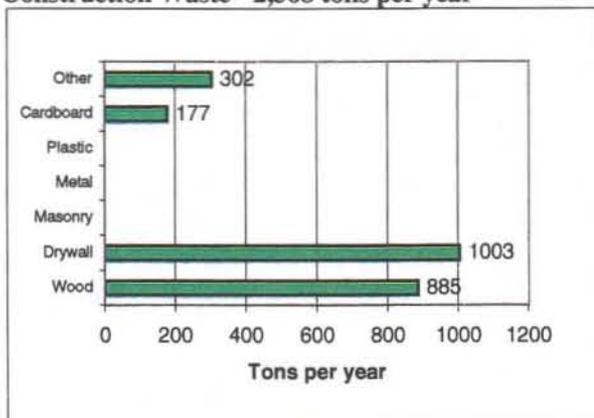
MATERIAL	Tons received during observation period	Percent of each material received	Estimated tonnage received in 1998 based on observation
MSW Component			
Paper	573 Tons	27.7%	33,823 Tons
Glass	87 Tons	4.2%	5,135 Tons
Metals	128 Tons	6.2%	7,556 Tons
Plastics	227 Tons	11.0%	13,399 Tons
Organics	493 Tons	23.8%	29,101 Tons
Inorganics	72 Tons	3.5%	4,250 Tons
TOTAL MSW	1580 Tons	76.3%	93,263 Tons
Construction Waste			
Wood	15 Tons	0.7%	885 Tons
Dry Wall	17 Tons	0.8%	1,003 Tons
Masonry	0 Tons	0.0%	- Tons
Metal	0 Tons	0.0%	- Tons
Plastic	0 Tons	0.0%	- Tons
Cardboard	3 Tons	0.1%	177 Tons
Other	5 Tons	0.2%	302 Tons
TOTAL CONSTRUCTION	40 Tons	1.9%	2,368 Tons
Demolition Waste			
Wood	23 Tons	1.1%	1,328 Tons
Dry Wall	39 Tons	1.9%	2,278 Tons
Roofing	79 Tons	3.8%	4,657 Tons
Masonry	5 Tons	0.2%	285 Tons
Metal	0 Tons	0.0%	- Tons
Carpet	16 Tons	0.8%	950 Tons
Other	0 Tons	0.0%	- Tons
TOTAL DEMOLITION	161 Tons	7.8%	9,499 Tons
Industrial Waste			
Cardboard	9 Tons	0.4%	515 Tons
Paper	5 Tons	0.3%	322 Tons
Food	0 Tons	0.0%	- Tons
Metal	0 Tons	0.0%	- Tons
Wood	7 Tons	0.3%	386 Tons
Plastic	9 Tons	0.4%	515 Tons
Textiles	28 Tons	1.4%	1,670 Tons
Rubber	51 Tons	2.5%	3,022 Tons
Other	158 Tons	7.7%	9,350 Tons
TOTAL INDUSTRIAL	267 Tons	12.9%	15,780 Tons
Other Wastes			
Bulky Items	22 Tons	1.0%	1,275 Tons
Soil and Inert Materials	0 Tons	0.0%	- Tons
Asbestos	0 Tons	0.0%	- Tons
Other	0 Tons	0.0%	- Tons
TOTAL OTHER WASTE	22 Tons	1.0%	1,275 Tons
TOTAL WASTE STREAM	2070 Tons	100%	122,185 Tons

The Butler County Landfill

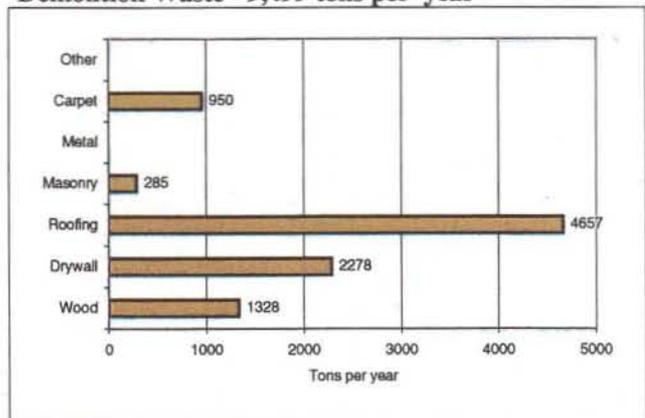
Total Waste Component - 122,185 tons per year



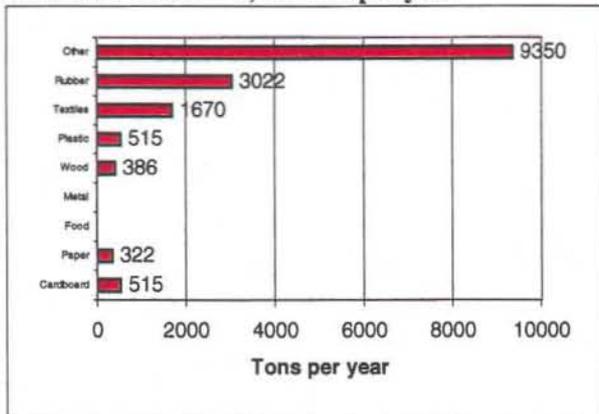
Construction Waste - 2,368 tons per year



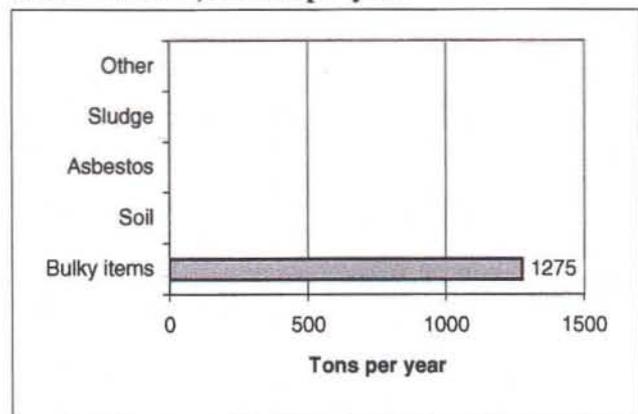
Demolition Waste - 9,499 tons per year



Industrial Waste - 15,780 tons per year



Other Waste - 1,275 tons per year



Butler County Waste Components vs Rural and State Averages

