

Fred Weber Inc. Landfill

The Fred Weber Landfill is located in St. Louis County approximately 15 miles west of the City of St. Louis, MO. It is owned and operated by Fred Weber Inc. The disposal facility covers 70 acres and is permitted to accept all municipal solid waste (MSW) and some Other wastes.

The Fred Weber Landfill accepted 59,332 tons in 1996, 315,951 tons in 1997 and 321,269 tons in 1998. The landfill operation was observed from Tuesday March 30th through Friday April 2nd, 1999. The weather was fair for the entire observation period. Observation took place from 7 AM till 4:30 PM on the above dates. During the four-day observation period 797 trucks, delivered 3,040 tons of waste to the landfill.

Because the weather was fair, and the observation period coincided with Easter week break, there may have been a slight increase in bulky items and brush. Other than that possibility the landfill staff felt the material received during the observation period was typical of material received year round.

Due to the heavy traffic and small dumping area drivers were not asked where the loads originated. However, all loads could be classified visually, without any driver data.

The Total Waste Stream - 3,040 tons

The composition of waste received at the Fred Weber Landfill has changed over the past year, and probably will continue to change during future months, due to consolidations, mergers, buy-outs and hauler-related ownership of the landfills in the St. Louis region. The Fred Weber Landfill is not owned by a waste hauling company. However, the remaining two sanitary landfills in the St. Louis region are owned by national waste hauling companies. Based on the waste received during the observation period the Fred Weber Landfill presently seems to attract construction and demolition haulers, small independents, and self haul vehicles. The MSW waste component was lower than most sanitary landfills throughout the state.

Total waste received during the observation period was 3,040 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
31%	16%	34%	7%	12%
948 tons	486 tons	1047 tons	206 tons	353 tons

Municipal Solid Waste - 948 tons

Municipal Solid Waste (MSW) accounted for 31% 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, MSW was sorted and recorded at 19 landfills and transfer stations as part of this study in 1996 and 97. During the 56 sorts 632 samples, weighing an average of 222 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 948 tons. The average percentage of each major material category found in the 1996-97 waste sorts was applied to the tonnage received during the observation period and is displayed below.

Municipal Solid Waste Components

Paper	Glass	Metals	Plastics	Organics	Inorganics
37.3%	5.8%	6.9%	14.4%	30.8%	4.8%
354 tons	55 tons	65 tons	137 tons	292 tons	45 tons

Construction Waste - 486 Tons

About 16% of the total waste received was from new construction sources. Construction waste loads were transported to the landfill in open top roll-off containers, dump trucks, or open trailers. The construction loads tended to be lighter, less weathered, and more homogeneous (all wood or dry wall, etc.) than demolition loads.

Total construction waste received during the observation period was 486 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.	Cardboard	Other
48%	26%	8%	1%	4%	9%	4%
232 tons	125 tons	41 tons	6 tons	17 tons	43 tons	22 tons

Demolition Waste - 1047 Tons

About 34% 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. 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. The "other" category was primarily roofing insulation board from commercial roofs.

Total demolition waste received during the observation period was 1047 tons. The materials within the demolition waste stream were estimated as they were unloaded. These estimated materials are listed on the next page.

The Demolition Waste Component

Wood	Dry Wall	Roof	Masonry	Metal	Carpet	Other
26%	5%	23%	29%	5%	4%	7%
272 tons	55 tons	245 tons	303 tons	55 tons	40 tons	77 tons

Industrial Waste - 206 Tons

Industrial waste loads were usually transported to the landfill in open top roll-off containers or compactor units. They were normally homogeneous, containing a single waste products from a manufacturing process. The biggest industrial waste material was quartered tires from a tire chipping company. Much of the cardboard was from equipment installers and the wood component was primarily pallets.

Total industrial waste received during the observation period was 206 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
28%	10%	0%	0%	14%	8%	1%	39%	0%
58 tons	20 tons	0 tons	1 ton	28 tons	16 tons	2 tons	81 tons	0 tons

Other Waste - 353 Tons

Other waste is defined as waste which does 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. Most of these bulky items were received in open top roll-off containers from clean-up operations or delivered on small self-haul trucks and trailers. The brush was unloaded at the compost area if it was clean (no trash mixed with the yard waste) or put into the main fill area if there were stumps, dirt, or other items mixed with the brush.

Total other waste received during the observation period was 353 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 Items	Brush, Stumps, or Commercial Yard Waste
36%	64%
128 tons	225 tons

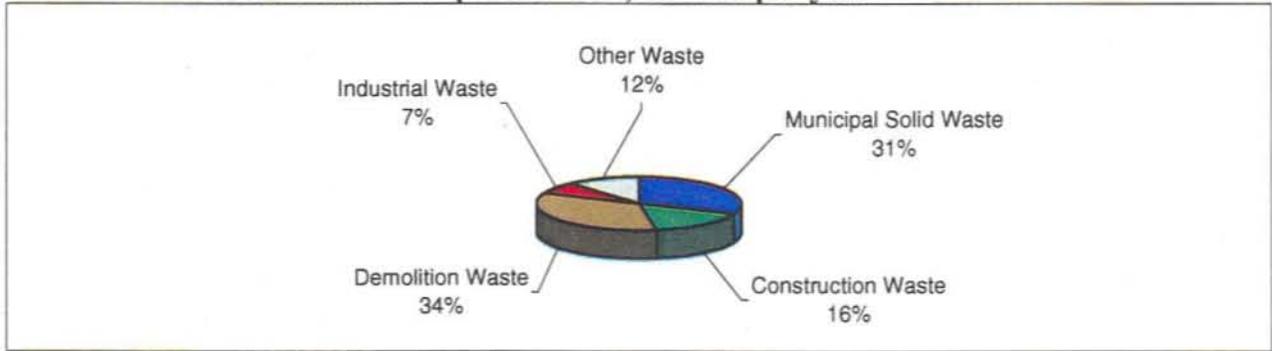
FRED WEBER LANDFILL

321,269 TONS IN 1998

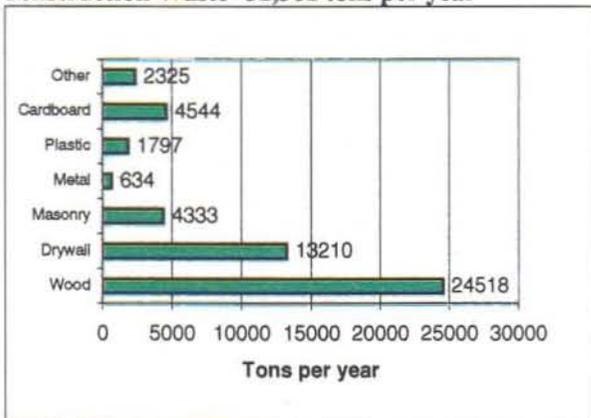
MATERIAL	Tons received during observation period	Percent of each material received	Estimated tonnage received in 1998 based on observation
MSW Component			
Paper	354 Tons	11.6%	37,411 Tons
Glass	55 Tons	1.8%	5,812 Tons
Metals	65 Tons	2.1%	6,869 Tons
Plastics	137 Tons	4.5%	14,478 Tons
Organics	292 Tons	9.6%	30,859 Tons
Inorganics	45 Tons	1.5%	4,756 Tons
TOTAL MSW	948 Tons	31.2%	100,185 Tons
Construction Waste			
Wood	232 Tons	7.6%	24,518 Tons
Dry Wall	125 Tons	4.1%	13,210 Tons
Masonry	41 Tons	1.3%	4,333 Tons
Metal	6 Tons	0.2%	634 Tons
Plastic	17 Tons	0.6%	1,797 Tons
Cardboard	43 Tons	1.4%	4,544 Tons
Other	22 Tons	0.7%	2,325 Tons
TOTAL CONSTRUCTION	486 Tons	16.0%	51,361 Tons
Demolition Waste			
Wood	272 Tons	8.9%	28,745 Tons
Dry Wall	55 Tons	1.8%	5,812 Tons
Roofing	245 Tons	8.1%	25,892 Tons
Masonry	303 Tons	10.0%	32,021 Tons
Metal	55 Tons	1.8%	5,812 Tons
Carpet	40 Tons	1.3%	4,227 Tons
Other	77 Tons	2.5%	8,137 Tons
TOTAL DEMOLITION	1047 Tons	34.4%	110,648 Tons
Industrial Waste			
Cardboard	58 Tons	1.9%	6,129 Tons
Paper	20 Tons	0.7%	2,114 Tons
Food	0 Tons	0.0%	- Tons
Metal	1 Tons	0.0%	106 Tons
Wood	28 Tons	0.9%	2,959 Tons
Plastic	16 Tons	0.5%	1,691 Tons
Textiles	2 Tons	0.1%	211 Tons
Rubber	81 Tons	2.7%	8,560 Tons
Other	0 Tons	0.0%	- Tons
TOTAL INDUSTRIAL	206 Tons	6.8%	21,770 Tons
Other Wastes			
Bulky Items	128 Tons	4.2%	13,527 Tons
Soil and Inert Materials	0 Tons	0.0%	- Tons
Asbestos	0 Tons	0.0%	- Tons
Commercial yard waste	225 Tons	7.4%	23,778 Tons
TOTAL OTHER WASTE	353 Tons	11.6%	37,305 Tons
TOTAL WASTE STREAM	3040 Tons	100%	321,269 Tons

The Fred Weber Landfill

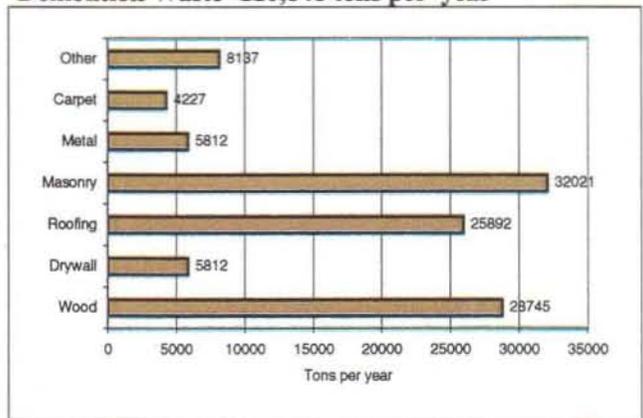
Total Waste Component - 321,269 tons per year



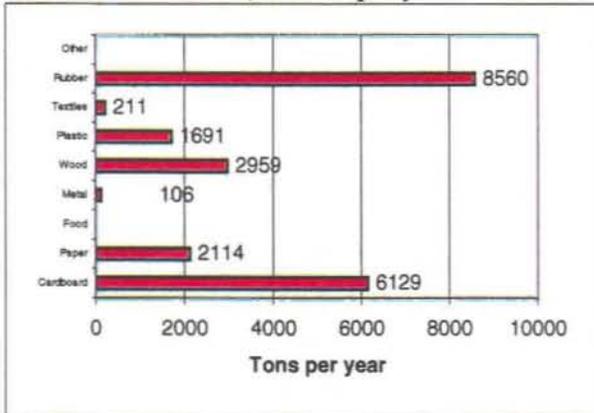
Construction Waste - 51,361 tons per year



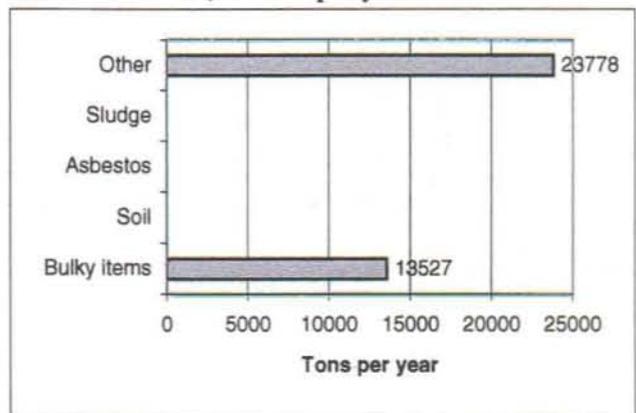
Demolition Waste - 110,648 tons per year



Industrial Waste - 21,770 tons per year



Other Waste - 37,305 tons per year



Fred Weber Waste Components vs Large Metro and State Averages

