



450 Woodward Ave.
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RECYCLING WORKS



WILLIAM E. SWANSON
Superintendent of Highways

What it Takes to Make a Ton

Making a ton of something equaling 2,000 pounds, takes a lot of material. We can use either raw materials or recycled materials to make the same items. By looking at the difference between two ways of making the same thing, we can learn how our environment is helped or hurt by our decisions.

To Make a Ton of Paper:

We Use These Raw Materials:

- 3,688 lbs. of wood
- 216 lbs. of lime
- 360 lbs. of salt cake
- 76 lbs. of soda ash
- 24,000 gallons of water
- 28 million BTUs of energy

We Would Have to Treat and Dispose of:

- 84 lbs. of air pollutants
- 36 lbs. of water pollutants
- 176 lbs. of solid waste



Resources Saved by: Recycling Paper

Recycling One Ton of Newspaper:

- Is the equivalent of one ton of paper made from about 17 trees.
- Conserve two to three cubic yards of landfill space; that's a box three feet tall, three feet wide, and six to nine feet long.

To Make a Ton of Glass:

We Use These Raw Materials:

- 1,330 lbs. of sand
- 433 lbs. of soda ash
- 433 lbs. of limestone
- 151 lbs. of feldspar
- 15.2 million BTUs of energy

We Would Have to Treat and Dispose of:

- 384 lbs. of mining wastes
- 8 lbs. of air pollutants



Resources Saved by: Recycling Glass

If we use a mixture of 1/2 recycled glass and 1/2 raw materials, we reduce:

- Water consumption by 50 percent
- Mining wastes by 79 percent
- Air pollutants by 14 percent.

To Make a Ton of Aluminum:

We Use These Raw Materials:

- 8,766 lbs. of bauxite
- 1,020 lbs. of petroleum coke
- 966 lbs. soda ash
- 327 lbs. of pitch
- 238 lbs. of lime
- 197 million BTUs of energy

We Would Have to Treat and Dispose of:

- 3,290 lbs. of red mud
- 2,900 lbs. of carbon dioxide
- 81 lbs. of air pollutants
- 789 lbs. of solid wastes



Resources Saved by: Recycling Aluminum

Recycling Aluminum Reduces:

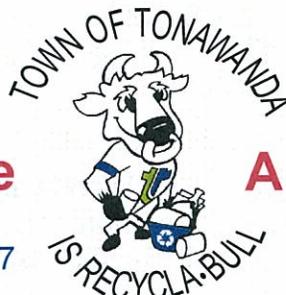
- Water consumption by 95 percent
- Energy use by 95 percent
- Air pollutants by 95 percent

See Back for More Interesting Facts



You Can Make

A Difference...



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To Make a Ton of Steel:

We Use These Raw Materials:

- 1,970 lbs. of iron ore
- 791 lbs. of petroleum coke
- 454 lbs. of lime
- 29 million BTUs of energy

We Would Have to Treat and Dispose of:

- 538 lbs. of solid wastes
- 42 lbs. of air pollutants



Resources Saved by: Recycling Steel

Recycling Steel Reduces:

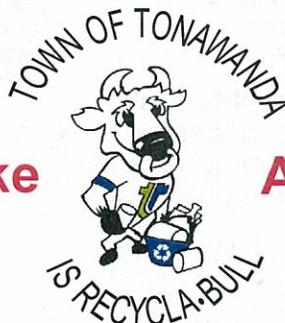
- Energy consumption by 74 percent
- Air pollutants by 86 percent
- Water used by 40 percent
- Water pollutants by 76 percent
- Mining wastes by 97 percent



RECYCLE TODAY FOR TOMORROW



- Bauxite — A mineral. Most of the aluminum in the world can be found in bauxite.
- BTU — British Thermal Unit. A measurement of the amount of heat needed to raise the temperature of one pound of water by one degree Fahrenheit.
- Carbon dioxide — (CO₂) A colorless, odorless, noncombustible gas made of carbon and oxygen molecules, which animals exhale when they breathe. Plants use this chemical in photosynthesis.
- Feldspar — A mineral found in many different rocks. It is one of the many materials used to make glass.
- Lime — This powdery material is used to help keep the various ingredients used in papermaking together. It is not to be confused with the green citrus fruit.
- Limestone — A rock made from many different minerals. It is used to make glass.
- Mining waste — The leftovers from the mining of various minerals. These leftovers usually have no use.
- Ore — Mineral or combination of minerals from which metals or other valuable substances can be mined.
- Petroleum coke — A product made from coal that is used to build fires in furnaces and for making aluminum and steel.
- Pitch — A thick, dark, sticky substance found in coal, wood, and petroleum. It is used to line the pots in which aluminum is made and to conduct electricity.
- Pollution — The contamination of soil, water, and/or air from the discharge of waste, gases, or chemicals.
- Recycle — To make new products out of used materials like beverage containers, newspapers, and glass.
- Red mud — The material that remains after aluminum has been removed from bauxite ore.
- Salt cake — A white powdery material used to make pulp.
- Soda ash — A white material made from the mineral called sodium. Soda ash is used to make glass.



You Can Make A Difference...

For More Information Contact:

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