

**DePaul Center for Urban Education
Chicago Math Connections**

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Teaching/Learning Data Bank

Useful information to connect math to science and social studies

Topic: Chicago Water Usage Facts

Data source: American Water Works Association of Denver Colorado

Item/ Activity	Amount of water used
Process 1/4 pound of hamburger	1 gallon(s)
Manufacture a new car	39,090 gallon(s)
Make four new tires	2,072 gallon(s)
Approximate amount humans need to consume per day to stay healthy	0.5 gallon(s)
Flushing a toilet	2-7 gallon(s)
Taking a five minute shower	25-50 gallon(s)
Brushing teeth	2 gallon(s)
Cleaning dishes with automatic washer	9-12 gallon(s)
Hand washing your dishes on average	20 gallon(s)
Amount used by average resident of Chicago per year	107,000 gallon(s)
Amount used by average resident of Chicago per day	123 gallon(s)
Producing one barrel of beer	1500 gallon(s)
Producing one pound of plastic	24 gallon(s)
Producing one can of fruits or vegetables	9.5 gallon(s)
Producing one pound of wool or cotton	101 gallon(s)
Producing one barrel of crude oil	1,851 gallon(s)
Producing one ton of steel (2,000 lbs.)	62,600 gallon(s)
Producing one ton of sugar (2,000 lbs.)	28,100 gallon(s)

Water Facts:

- 80% of the Earth's surface is water (salt/fresh)
- 97% of the Earth's surface water is in the oceans or seas
- 1% of the Earth's water is suitable for drinking
- One gallon of water weighs 8.34 lbs.
- It would take 219 million gallons of water to cover one square mile of the Earth's surface with one foot of water.
- There are 7.48 gallons of water in a *cubic foot*
- Water makes up 66% of the human body
- When it rains one inch, you get 27,000 gallons of per acre (43,560 sq. feet.)