

# How Much Water Do You Use? - Do the Math!

WATER CONSERVATION AUDIT FOR GEORGIA STUDENTS

How much water does YOUR family use?

Ask your family to help you answer these questions.

1. Do you live in a...? (check one)
- house
- apartment/condo
- mobile home

2. How many people live there including you?

Circle one 2 3 4 5 6 7 8 9 10  
more than 10

3. How old are the children in your home?
- \_\_\_\_\_
- \_\_\_\_\_

4. Check your water bill (hint-ask your parents to call the water department if your water bill does not show water use in gallons) \_\_\_\_\_  
Find out how many gallons of water were used in your home during the last billing period:

gallons

5. How many days were there in that billing period?

days



## WATER USE OUTSIDE YOUR HOME

6 How big is your yard compared to the other yards on your street? (check one)  
 \_\_\_\_\_ larger \_\_\_\_\_ the same \_\_\_\_\_ smaller

7 What type of plants do you have? (check all that apply)  
 \_\_\_\_\_ grass \_\_\_\_\_ ground cover \_\_\_\_\_ flowers \_\_\_\_\_ shrubs  
 \_\_\_\_\_ trees \_\_\_\_\_ vegetable garden

8 How much water did you use outside from April - October last year?  
 (Hint -estimate it by answering the questions below) \_\_\_\_\_

a. How many minutes do you water your lawn each day you water it?

number of watering *minutes per day*

b. How many days per week do you water your lawn?

number of watering *days per week (one to seven).*

## WATER USE INSIDE YOUR HOME

9 Dishwasher (answer only if you have one)

a. How many times per week is the dishwasher run? \_\_\_\_\_

b. How full is the dishwasher usually loaded?

\_\_\_\_\_ full \_\_\_\_\_ half full \_\_\_\_\_ less than half full

10 Washing machine (answer only if you have one)

a. How many loads per week are usually washed? \_\_\_\_\_

b. How full is the washing machine usually loaded?

\_\_\_\_\_ full \_\_\_\_\_ half full \_\_\_\_\_ less than half full

c. How often is the setting on the washer set correctly?

(For example, is it set for a small load when washing a small load?)

\_\_\_\_\_ always \_\_\_\_\_ never \_\_\_\_\_ sometimes

11 Count them! How many of each of the following do you have in your home?

\_\_\_\_\_ sinks \_\_\_\_\_ showers \_\_\_\_\_ bathtubs \_\_\_\_\_ toilets

12 How many showers per week are taken in your home?

\_\_\_\_\_ # of family members X \_\_\_\_\_ # of showers/member X \_\_\_\_\_ # of days/week = \_\_\_\_\_  
 total # of showers/week

← + Do the math!

13 How many baths per week are taken in your home?

\_\_\_\_\_ # of family members X \_\_\_\_\_ # of baths/member X \_\_\_\_\_ # of days/week = \_\_\_\_\_  
 total # of baths/week

← + Do the math!

**14** How many minutes is your family's average shower? Estimate it by answering the questions below. Time it! Use a stop watch to record the amount of time it takes each of your family members to shower. Add the minutes together.

Total # of minutes family members spent in the shower \_\_\_\_\_



Total # of family members \_\_\_\_\_ ÷

# of minutes for your family's average shower \_\_\_\_\_ =

**15** Count it!

a. How many times each day is a toilet flushed in your house? \_\_\_\_\_ times

b. \_\_\_\_\_ # of toilet flushes X \_\_\_\_\_ # of days/ week (one to seven) = \_\_\_\_\_ total # of toilet flushes

**16** Are there other places where a lot of water is used in your house? (Examples: automatic sprinklers, hot tub, swimming pool, etc.)

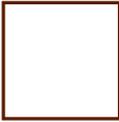
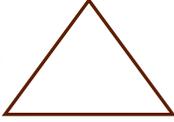
If so, where? \_\_\_\_\_

## HOME WATER USE

**17** Figure out how much water is used by each member of your family every day.

(Hint - The shapes below correspond to the shape above. Find the answers below from the same shape above.)



	÷		=	_____	÷	_____	=	_____
gallons per billing period		number of average days in billing period		daily consumption		number of people in home		AVERAGE USE PER PERSON IN GALLONS/DAY

**18** Figure out how much water is used outside your home.

	X		=	_____	÷	60	=	
watering minutes per day		watering days per week		watering minutes per week				watering hours per week

	X	1800	=	_____
watering hours per week		gallons per hour		GALLONS PER WEEK OUTSIDE WATERING

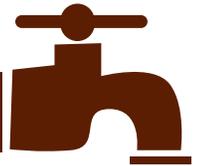


**19** Figure out how much is used inside your home by completing the chart on the following page...

Figure out how much water is used inside your home by completing the chart below.

WATER USE ACTIVITY IN YOUR HOME	# OF USES PER WEEK	MULTIPLY	AVERAGE GALLONS/ USE	EQUALS	APPROXIMATE WATER USE PER WEEK
Dishwasher - Question #9a		X	15	=	
Washing Machine - Question #10a		X	60	=	
Showers - Question #12		X	30	=	
Baths - Question #13		X	35	=	
Toilet Flushes - Question #15b		X	5	=	
<b>TOTAL APPROXIMATE WATER USE PER WEEK IN GALLONS</b>					

Here are some water saving tips for your family:



- Turn off the faucet when you brush your teeth, wash your hands, or do the dishes.
- Don't flush the toilet unnecessarily. Throw tissues and other trash in the wastebasket.
- Turn off the hose and/or use a nozzle that automatically cuts off when you are not holding it down.
- Take shorter showers.
- Get an adult to help you fix dripping faucets and running toilets.
- Water your garden only when it needs it - once or twice a week.
- Remind your parents to only wash full loads of laundry and dishes.
- Tell your parents to be sure that your lawn sprinklers don't spray onto sidewalks, streets, or driveways.

