



CARBON FOOTPRINT CALCULATOR

What's Your Annual Contribution to Global Warming?

(This tool is available in Excel format at www.rvecc.org/footprint.html)



Working together for smart, clean energy

	Categories (see page 2 for detailed instructions)	A - Enter Data in This Column	B - Calculation Factor (lb. CO ₂)	C - (multiply AxB)
	UTILITIES			
1	Kilowatt Hours Used		1.85	
2	Natural Gas (Therms)		13.466	
3	Gallons of Propane		13	
4	Gallons of Fuel Oil		22	
	TRANSPORTATION			
5	Veh #1 Miles Driven			
6	Veh #1 MPG			
7	Gallons used (Divide L5 by L6)		20	
8	Veh #2 Miles Driven			
9	Veh #2 MPG			
10	Gallons used (Divide L8 by L9)		20	
11	Veh #3 Miles Driven			
12	Veh #3 MPG			
13	Gallons used (Divide L11 by L12)		20	
14	Diesel veh. Miles Driven			
15	Diesel veh. MPG			
16	Gallons used (Divide L14 by L15)		22	
17	Air travel person/miles		.45	
	OTHER EQUIPMENT USE			
18	Gallons of gas used in boat, ATV, lawn equipment, other.		20	
	WASTE DISPOSAL			
19	Enter your household consumption profile (see instructions)			
20	Number of people in household			
21	Multiply L19 x L20		1000	
22	Percentage of recyclable waste that you ACTUALLY recycle (enter as a decimal; 50% = .50)		(500)	
	OFFSETS			
23	Pounds of CO ₂ that you OFFSET with carbon offset contributions		(1)	
	Your Carbon Footprint (Total of all items in Column C)			

Instructions for RVCCC Carbon footprint calculator (by line number) – This tool is intended to calculate your total footprint for a calendar year.

1 - ELECTRICITY - Kilowatt Hours - Find this on your electric bills. The multiplier takes into account that 88% of electricity consumed in Roanoke area is generated using coal.

2 - NATURAL GAS - Find this on your gas bills. Roanoke Gas uses therms for billing. A therm equals 100,000 BTU.

3 - PROPANE - Enter total propane used here whether for use in home utility system or other applications (RV, outdoor grill, equipment, etc.)

4 - HEATING OIL - Enter your total usage of heating oil. If you use biodiesel for home heating, reduce the usage by the percentage of the biodiesel blend you are using.

5, 8, 11, 14 - MILES DRIVEN - If you know the miles driven for the past year, enter that amount, otherwise calculate an annual average by dividing your odometer reading by years you have owned (for new car - if you bought vehicle used, check your title for mileage when you bought it and calculate on that basis).

6, 9, 12, 15 - VEHICLE MPG - If you know the actual MPG you are getting for your vehicle(s) enter that amount, otherwise enter the EPA rated MPG which you can find here: <http://www.fueleconomy.gov/>

17 - AIR TRAVEL - Calculate total miles flown during the year for each person and total all flights. Two people going on a round trip flight to a destination 500 miles away equals 2000 person/miles.

18 - OTHER EQUIPMENT - Consider any and all equipment you use that burns gasoline.

19 - Honestly rate your consumption profile (enter number from these options):

"Shop till you drop!" = 1.5

"We like our stuff" = 1.25

"Average Consumers" = 1.0

"Waste not, want not" = .75

"Minimalist" = .50

22 - RECYCLING - Enter a decimal number from .00 to 1.00 to express the percentage of your waste that you recycle (50% equals 0.50). Consider all the waste that can be recycled through your government's recycling program or others available in your community. Include recycling opportunities beyond just curbside pickup. Note the multiplier on this factor is a negative number.

23 - Carbon Offsets can be purchased from many sources. The providers of carbon offsets use the money to support clean/renewable energy in various ways. Enter the offsets you purchased in pounds (1 ton = 2000 pounds). Note the multiplier on this factor is a negative number. RVCCC offers a carbon offset program through which it purchases CFL bulbs to be given away to citizens in the community. \$10 tax deductible donation = carbon offset of 2800 pounds. See <http://www.rvccc.org/rvccc-offset.html>.