

Household Carbon Calculator

To make these calculations you need:

- Your fuel bills for 12 months (electric, gas, propane or oil)
- The annual miles driven and the average MPG for each car
- The annual miles traveled by local and long distance bus and train (www.nativeenergy.com will calculate if you enter origin and destination)
- Your annual air travel miles. To get miles between airports use an atlas or go to <http://www.webflyer.com/travel/milemarker/>
- An estimate of your average total garbage (trash) you dispose of each WEEK but NOT recycling

To request this worksheet as an electronic file (it will do the math for you!), email Lynne Heritage at HeritageInnovations@comcast.net. Then review the list of STEPS TO REDUCE YOUR CARBON FOOTPRINT and identify how much each will cut your carbon emissions.					
	Column A Enter data in this column	Column B Multiply by this number	Column C	Column D	Column E Result in lbs CO ₂ per year A x B
How many kWh of electricity do you use per year?		1.40			
How many gallons of propane do you use per year? <i>(20 lbs propane@77 degrees F=4.856 gal, see www.convert-me.com/en/convert/weight2volume#subs)</i>		12.70			
How many gallons of heating oil do you use per year?		22.40			
How many gallons of garbage do you put out each week? <i>(An average garbage can contains 32 gallons – Do NOT include recycling)</i>		101.80			
How many miles do you travel by air per year? <i>(Long trips = 0.8 lbs CO₂/mile, short trips = 1.28 lbs CO₂/mi)*</i>		1.00			
How many miles by long distance train?*		0.42			
How many miles by commuter train?*		0.35			
How many miles by long distance bus?*		0.18			
How many miles by city bus?*		0.66			
	Column A Enter data in this column	Column B Enter average mpg for this car	Column C To find #gal/yr, divide A/B	Column D Multiply by this number of pounds	Column E For lbs CO ₂ per year, C x D
How many miles per year do you drive your 1st car or truck?				20	
How many miles per year do you drive your 2nd car or truck?				20	
How many miles per year do you drive your 3rd car or truck?				20	
Total Household lbs CO₂ = sum of all totals in column E					

NOTES

Notes:

- * Conversion factors from www.nativeenergy.com using national averages for the carbon multipliers.
 Categories and multipliers used are similar to the 'Low Carbon Diet' workbook calculator.
 The 'Low Carbon Diet' workbook calculator is online at http://www.empowermentinstitute.net/lcd/lcd_files/LCDcalcNet.html
 This is only for your direct carbon footprint. **Carbon emissions from product manufacturing, food production and their travel are additional.**

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