

ACTIVITIES AND OTHER STUFF

Skiing (average of Aspen & Copper) ⁴¹	44 lb CO ₂ /day
Silver Queen gondola ⁴²	2.9 lb CO ₂ /ride
Heli-skiing ⁴³	420 lb CO ₂ /day
Health club visit ⁴⁴	21 lb CO ₂ /visit

Fiji Water (Fiji to Aspen) ⁴⁵	0.97 lb CO ₂ /liter
French wine (France to Aspen)	6.2 lb CO ₂ /750 ml
Napa wine (Napa to Aspen) ⁴⁶	5.5 lb CO ₂ /750 ml
One beer (field to fridge) ⁴⁷	1.8 lb CO ₂ e/12 oz
One cup of coffee (store only) ⁴⁸	0.45 lb CO ₂ /cup
One aluminum can not recycled ⁴⁹	0.46 lb CO ₂ /can
A cheeseburger ⁵⁰	6.6 lb CO ₂ e/burger
Bluefin tuna sushi ⁵¹	0.5 lb CO ₂ /piece
Milk ⁵²	4.3 lb CO ₂ e/gallon
Steak ⁵³	22 lb CO ₂ e/lb

1 gallon of gasoline (combustion)	19.6 lb CO ₂ /gallon
1 gallon of gasoline (fuel cycle) ⁵⁴	24.8 lb CO ₂ /gallon
1 gallon of diesel (combustion)	22.4 lb CO ₂ /gallon
1 gallon of diesel (fuel cycle) ⁵⁵	26.6 lb CO ₂ /gallon

Average Aspen electricity ⁵⁶ 1.22 lb CO₂e/kWh



1 pound of carbon dioxide ⁵⁷	8.62 cubic feet
1 pound of carbon dioxide	39 party balloons
Average Aspen home	227 balloons/hr
All Aspen emissions	7.5 million balloons/hr

“If the success or failure of this planet,
and of human beings, depended on how
I am and what I do, How would I be?
What would I do?”
– Buckminster Fuller

Thanks to:
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Aspen Field Biology Laboratory, Aspen, CO (www.afbl.us)
Carbon Mitigation Management, Basalt, CO (www.carbonmitco.com)

To offset your emissions, consider buying
City of Aspen Canary Tags (\$20 per ton CO₂).
Funds from the sale of Canary Tags will be invested in local and
regional greenhouse gas reduction projects that will reduce emissions
on your behalf. (www.aspenzgreen.com/offsets.cfm)

All of these examples are estimates. Many are specific to Aspen,
and are often averages of broad ranges. Each of our lifestyles,
behavior patterns, and choices help determine our daily emissions.

Note on units: Most emissions are given as rates – often per
hour or mile or passenger-mile, and sometimes per year. Emissions
for products are typically for the entire life-cycle: wine from the
field in France shipped in a bottle to Aspen. See the annotated
version for boundary definitions. Carbon dioxide is chiefly from the
combustion of fossil fuels (gasoline, coal, natural gas), whereas
methane is from bio-decomposition or energy production.

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Carbon in Our Daily Lives

Awareness is the crucible of change



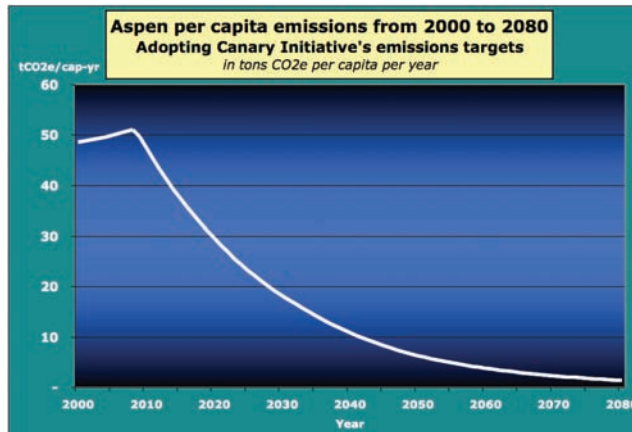
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NATIONAL AND INTERNATIONAL

Global fossil fuel CO ₂ ¹	3,647,000 tons CO ₂ /hr
Per capita emissions (global) ²	1.13 lb CO ₂ /hr
Per capita (USA) ³	26 tons CO ₂ e/yr
Per capita (Germany)	14 tons CO ₂ e/yr
Per capita (Japan)	12 tons CO ₂ e/yr
Per capita (India)	1.5 tons CO ₂ e/yr
Per capita (Aspen, 2004) ⁴	50 tons CO ₂ e/yr
Per capita (Aspen, 2004) ⁵	11 lb CO ₂ e/hr
Per capita (Aspen, 2020)	30 tons CO ₂ e/yr
Per capita (Aspen, 2050)	6 tons CO ₂ e/yr

Canary Initiative Targets



Annual per capita emissions of Aspen residents, 2nd homeowners, visitors, and workers. Currently 49 tons CO₂e/cap-yr, the Canary Initiative aims to reach 30 tons by 2020 and 6 tons by 2050.⁶



ASPEN: TOTAL AND RESIDENTIAL

All Aspen emissions ⁷	96 tons CO ₂ e/hr
All Aspen buildings ⁸	31 tons CO ₂ e/hr
All Aspen locally-owned homes	7 tons CO ₂ e/hr
All Aspen second homes ⁹	10 tons CO ₂ e/hr
Average US home ¹⁰	13 tons CO ₂ e/yr
Average Aspen home ¹¹	50 tons CO ₂ e/yr
Average Aspen home	139 lb CO ₂ e/day
Average Aspen home	5.8 lb CO ₂ e/hr
Average Aspen home ¹²	21 lb CO ₂ e/sf-yr
Low energy Aspen home ¹³	5 lb CO ₂ e/sf-yr
High energy Aspen home	50 lb CO ₂ e/sf-yr
Low energy Aspen home	7 tons CO ₂ e/yr
High energy Aspen home	253 tons CO ₂ e/yr
Large pond circulation pump ¹⁴	21 tons CO ₂ e/yr
Local homes per occupied day ¹⁵	144 lb CO ₂ e/day
2nd homes per occupied day	606 lb CO ₂ e/day
Heated driveway (1,000 sf, boiler on) ¹⁶	21 lb CO ₂ /hr
Outdoor spa ¹⁷	0.75 lb CO ₂ e/hr
Refrigerator ¹⁸	0.16 lb CO ₂ e/hr
Six exterior lights ¹⁹	0.73 lb CO ₂ e/hr
One 10-minute shower ²⁰	7.3 lb CO ₂ e/shwr

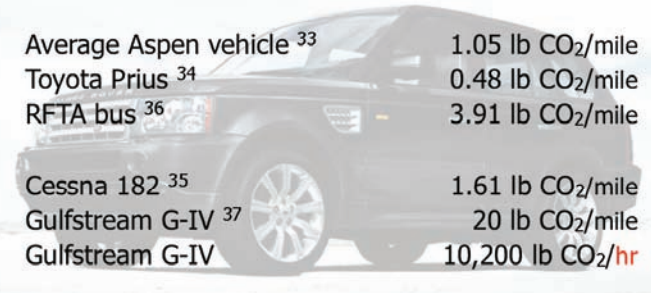
One gallon of hot water delivered to the tap:²¹

Natural gas	0.18 lb CO ₂ e
Electricity (City Electric)	0.23 lb CO ₂ e
Electricity (Holy Cross)	0.56 lb CO ₂ e



ASPEN: DRIVING AND FLYING

All Aspen driving ²²	23 tons CO ₂ /hr
All Aspen commercial air travel ²³	21 tons CO ₂ /hr
All Aspen private aviation ²⁴	18 tons CO ₂ /hr
Average Aspen vehicle ²⁵	63 lb CO ₂ /hr
Driving to Glenwood and back ²⁶	84 lb CO ₂ /trip
Hwy 82 congestion (peak hr) ²⁷	4,400 lb CO ₂ /hr
Air courier delivery ²⁸	4.7 lb CO ₂ /package
Flying United ASE to DEN ²⁹	130 lb CO ₂ /person
Driving alone to DEN ³⁰	210 lb CO ₂ /person
Flying airlines to Aspen ³¹	0.42 lb CO ₂ /pax-mile
Flying private jet to Aspen ³²	2.10 lb CO ₂ /pax-mile
Average Aspen vehicle ³³	1.05 lb CO ₂ /mile
Toyota Prius ³⁴	0.48 lb CO ₂ /mile
RFTA bus ³⁶	3.91 lb CO ₂ /mile
Cessna 182 ³⁵	1.61 lb CO ₂ /mile
Gulfstream G-IV ³⁷	20 lb CO ₂ /mile
Gulfstream G-IV	10,200 lb CO ₂ /hr
Airbus 380 ³⁸	188 lb CO ₂ /mile
F-18 Hornet fighter bomber ³⁹	14 tons CO ₂ /hr
Aircraft carrier ⁴⁰	101 tons CO ₂ /hr



"Aspen Rush Hour" Photo credit: Scott Condon, The Aspen Times