



Canary Tags: Carbon Card (calculations)

City of Aspen - Canary Initiative

Sector Offset	# of unit	lbs/unit	Total (lbs)	Total (tons)	Canary Tags (\$)	Canary Tags (rounded)	Assumptions & References (in addition to those on "data" worksheet)
Recreation Skiing for a season (1 day/week)	20.00	45.00	900.00	0.45	\$ 9.00	\$ 10.00	
Recreation Skiing for a season (2 days/week)	40.00	45.00	1,800.00	0.90	\$ 18.00	\$ 20.00	
Recreation Skiing for a season (5 days/week)	100.00	45.00	4,500.00	2.25	\$ 45.00	\$ 45.00	
Recreation Heliskiing (1 day)	1.00	419.00	419.00	0.21	\$ 4.19	\$ 5.00	
Recreation New road/mountain bike	1.25	2010.60	2,513.24	1.26	\$ 25.13	\$ 25.00	Cost = 1250 (unit = /\$1000)
Recreation Running shoes for a year (3 pairs)	3.00	143.33	430.00	0.22	\$ 4.30	\$ 5.00	3 pairs/year
Recreation A year at the gym	156.00	20.96	3,269.76	1.63	\$ 32.70	\$ 35.00	3 days/week
Recreation Snowmobiling trip	5.00	87.00	435.00	0.22	\$ 4.35	\$ 5.00	5 hours/trip
Travel New car	28.00	1384.49	38,765.69	19.38	\$ 387.66	\$ 390.00	Cost = 28000 (unit = /\$1000)
Travel Spring trip to Moab	2.00	280.00	560.00	0.28	\$ 5.60	\$ 5.00	Roundtrip driving
Travel Spring trip to Cancun	2.00	540.00	1,080.00	0.54	\$ 10.80	\$ 10.00	Roundtrip flying
Home Showering for a year	365.00	7.00	2,555.00	1.28	\$ 25.55	\$ 25.00	One shower/day
Home Heating your home for a year	1.00	18000.00	18,000.00	9.00	\$ 180.00	\$ 180.00	Average natural gas emissions from homes in Aspen/home
Home Lighting your home for a year	1.00	2031.00	2,031.00	1.02	\$ 20.31	\$ 20.00	Single-family home
Home Snow melting your driveway	1.00	12922.00	12,922.00	6.46	\$ 129.22	\$ 130.00	1 season
Home Computer use	365.00	1.00	365.00	0.18	\$ 3.65	\$ 5.00	
Home Doing laundry for a year	1.00	2923.00	2,923.00	1.46	\$ 29.23	\$ 30.00	Washing clothing with hot water, plus dryer emissions
Home A refrigerator for a year	1.00	1677.00	1,677.00	0.84	\$ 16.77	\$ 15.00	
Home Watching TV for year (plasma)	1.00	257.00	257.00	0.13	\$ 2.57	\$ 2.50	
Home Mowing your lawn for a year (gas-powered mower)	1.00	87.00	87.00	0.04	\$ 0.87	\$ 1.00	Gas-powered mower
Home Feeding your dog for a year	1.00	8609.28	8,609.28	4.30	\$ 86.09	\$ 85.00	
Home Household waste for a year (2-person household)	1.00	16290.00	16,290.00	8.15	\$ 162.90	\$ 165.00	
Food & Drink Eating for a year (meat)	1.00	5040.00	5,040.00	2.52	\$ 50.40	\$ 50.00	
Food & Drink Eating for a year (lacto-ovo)	1.00	3000.00	3,000.00	1.50	\$ 30.00	\$ 30.00	
Food & Drink Eating for a year (vegan)	1.00	1040.00	1,040.00	0.52	\$ 10.40	\$ 10.00	
Food & Drink Beer for a year	255.32	0.10	25.46	0.01	\$ 0.25	\$ 0.50	23 gallons/person/year in Colo. 1 gallon = 3.7 87.0645 liters/year 255.321 bottles/year
Food & Drink Wine for a year	15.14	6.16	93.22	0.05	\$ 0.93	\$ 1.00	3 gallons/person/year in Colo. 1 gallon = 3.7 11.3562 liters/year 15.1416 bottles/year
Food & Drink Sushi dinner for 2 w/a bottle of wine for a year (monthly)	12.00	18.01	216.15	0.11	\$ 2.16	\$ 2.00	12 pieces per person; average of wine emissions
Food & Drink Burger night for a year (weekly)	52.00	6.78	352.53	0.18	\$ 3.53	\$ 5.00	1 person: 1 burger, 2 beers/night
Food & Drink Coffee for a year	730.00	0.45	327.77	0.16	\$ 3.28	\$ 5.00	2 cups/day
Food & Drink Pizza lunch for a year (weekly)	52.00	2.22	115.21	0.06	\$ 1.15	\$ 1.00	1 pizza lunch/week
Food & Drink Burrito dinner for a year (weekly)	52.00	5.57	289.58	0.14	\$ 2.90	\$ 3.00	1 burrito dinner/week

Cell: I30

Comment URL:

http://www.time.com/time/2007/america_numbers/alcohol.html

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Canary Tags: Carbon Card (data)

City of Aspen · Canary Initiative

Category	Source	lb CO2	Unit	Source	
Recreation	One ride on Silver Queen gondola	2.89	/ride	Sopris Foundation	
Recreation	Avg. skier day with SkiCo	45	/day	Sopris Foundation	
Recreation	Heli skiing	419	/day	Sopris Foundation	
Recreation	Athletic club visit	20.96	/visit	Sopris Foundation	
Food	Coffee	0.449	/cup	Sopris Foundation	
Food	Beer	0.0997	/bottle	Sopris Foundation	
Food	Wine in Aspen (French)	6.18	/bottle	Sopris Foundation	
Food	Wine in Aspen (Australian)	6.8	/bottle	Sopris Foundation	
Food	Wine in Aspen (Californian)	5.49	/bottle	Sopris Foundation	
Food	Sushi	0.494	/piece	Sopris Foundation	
Food	Burger	6.58	/burger	Sopris Foundation	
Home	Heated driveway	12,922	/winter	Sopris Foundation	
Home	Hot shower (10 mintues)	6.98	/shower	Sopris Foundation	
Recreation	Running shoes	143.333	/pair of shoes	RunnersWorld.com	Amory Lovins blog
Recreation	Snowmobiling	87	/hour	Sopris Foundation	
Food	Fruits and vegetables	1.6	/lb. of food	Sopris Foundation	
Food	Chicken, fish & eggs	6	/lb. of food	Sopris Foundation	
Food	Beef	22.1	/lb. of food	Sopris Foundation	
Home	Desktop computer	1	/day	Sopris Foundation	
Home	Air conidtioning	8.4	/day	Sopris Foundation	
Travel	Flying: Aspen to Denver	80	/leg	CanaryTags.com	
Travel	Flying: Denver to Las Vegas	280	/leg	CanaryTags.com	
Travel	Driving: Aspen to Glenwood	40	/leg	CanaryTags.com	
Travel	Driving: Aspen to Denver	220	/leg	CanaryTags.com	from Aspen City Hall to 16th St. Mall
Travel	Driving: Aspen to Moab	280	/leg	CanaryTags.com	
Travel	Flying: Denver to Cancun	460	/leg	TerraPass	
Recreation	Bicycle (manufacturing)	2010.6	/\$1000	Grist.org	0.912 metric ton: 2204.6 lbs in a me 2010.6 lbs CO2
Travel	Car (manufacturing)	1384.49	/\$1000	Grist.org	0.628 metric ton: 2204.6 lbs in a me 1384.49 lbs CO2
Food	Diet: Average American (meat)	5040	/year	PlanetGreen	
Food	Diet: Lacto-ovo	3000	/year	PlanetGreen	
Food	Diet: Vegan	1040	/year	PlanetGreen	
Home	Clothes washer	1462	/year	Sopris Foundation	includes heating water
Home	Clothes dryer	1461	/year	Sopris Foundation	
Home	Refrigerator	1677	/year	Sopris Foundation	
Home	UPS package delivery	4.7	/package	Sopris Foundation	
Home	Plasma TV	257	/year	Sopris Foundation	
Food	Cheese (4 oz.)	2.51	/4 oz	Bon Appetit	
Food	Pizza (pepperoni)	2.21565	/slice	Bon Appetit	1 pt = 1 g of CO2e. Cheese = 1140 points
Food	Burrito dinner with the works	5.56888	/dinner	Bon Appetit	
Home	Natural gas use (avg. for Aspen)	18000	/year	Climate Mitigation Services	Second Homes report data (comissioned by Sopris Foundation)
Home	One gas mower	87	/year	People Powered Machines	
Food	1 lb of red meat	22.1	/lb of red meat	Sopris Foundation	
Food	1 lb of cereals/carbs	3.02	/lb of cereal/ca	Sopris Foundation	
Home	Dog = 361 pounds of meat/year	361	NOT CO2	New Scientist	
Home	Dog = 209 pounds of cereals/year	209	NOT CO2	New Scientist	
Home	Lighting home for a year	2031	/year	Sopris Foundation	
Home	Toaster	45	/year	Sopris Foundation	
Home	Household waste for a year (2-person)	16290	/year	ZGreen Citizen checklist	16,290 pounds is about average for a household of two people over a year.
Food	Toast with butter	0.23369	/portion	Bon Appetit	

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<http://www.runnersworld.com/article/0,7120,s6-240-488--12910-0,00.html>

Cell: F18

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(<http://green.yahoo.com/blog/amorylovins/75/jogging-lighter-with-eco-running-shoes-and-recyclable-gear.html>)

Cell: E30

Comment: URL:

<http://www.terrapass.com/carbon-footprint-calculator/#air>

Cell: E31

Comment: URL:

<http://www.grist.org/article/ten-speed-demon/>

Cell: E32

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<http://www.grist.org/article/ten-speed-demon/>

Cell: E33

Comment: URL:

<http://planetgreen.discovery.com/food-health/vegetarian-diet-carbon-footprint.html>

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<http://planetgreen.discovery.com/food-health/vegetarian-diet-carbon-footprint.html>

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<http://www.eatlowcarbon.org/Carbon-Calculator.html>

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<http://www.eatlowcarbon.org/Carbon-Calculator.html>

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<http://www.eatlowcarbon.org/Carbon-Calculator.html>

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Comment: URL:

<http://www.climate.mitigation.com/publications/ASHES%20AllSheets%20Jul07.pdf>

Cell: E45

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<http://www.peoplepoweredmachines.com/faq-environment.htm>

Cell: E48

Comment: URL:

<http://www.newscientist.com/article/mg20427311.600-how-green-is-your-pet.html>

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<http://www.newscientist.com/article/mg20427311.600-how-green-is-your-pet.html>

Cell: E53

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<http://www.eatlowcarbon.org/Carbon-Calculator.html>

	World	United States	2050 U.S. target
Transportation	3	14	
Housing	3	14	
Food	1	7	
Goods	1	4	
Services	1	3	
U.S. target			1.80675
TOTAL	9	42	

Source: <http://coolclimate.berkeley.edu/>

U.S. 2050 target

3613.5 1.80675 tons/yr

Source:

From Sopris Carbon card (2007 rev. U.S. calculation from R. Heede): www.soprisfoundation.org

