



Estimated Vanpool Program Environmental Impact - CY2012

Confidential vRide Information provided to:

vRide/State of Hawaii

	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Annually
A Daily Active Vans	94	94	94	94	94	94	94	94	94	94	94	94	94
B Daily Seating available	781	781	781	781	781	781	781	781	781	781	781	781	781
C Occupancy Rate	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%
D Average Daily Passengers per Van	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
G Parking Space Saved	531	531	531	531	531	531	531	531	531	531	531	531	6,370
H Cars Off Highway	11,147	11,147	11,147	11,147	11,147	11,147	11,147	11,147	11,147	11,147	11,147	11,147	133,762
I Trips Eliminated per Day	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062	12,739
J Trips Eliminated per Month	11,147	11,147	11,147	11,147	11,147	11,147	11,147	11,147	11,147	11,147	11,147	11,147	133,762
K Miles Eliminated	724,542	724,542	724,542	724,542	724,542	724,542	724,542	724,542	724,542	724,542	724,542	724,542	8,694,504
L Fuel Saved	28,752	28,752	28,752	28,752	28,752	28,752	28,752	28,752	28,752	28,752	28,752	28,752	345,020
M Average Fuel Cost	\$4.10	\$4.28	\$4.77	\$4.65	\$4.71	\$4.49	\$4.17	\$4.46	\$4.57	\$4.81	\$4.25	\$3.98	\$4.44
N Fuel Savings(Dollars)	\$ 117,882	\$ 123,057	\$ 137,145	\$ 133,695	\$ 135,420	\$ 129,095	\$ 119,894	\$ 128,232	\$ 131,395	\$ 138,296	\$ 122,195	\$ 114,432	\$1,530,739
O Carbon Monoxide Reduction per Month (tons)	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	130
P Carbon Dioxide Reduction per Month (Tons)	232.7	232.7	232.7	232.7	232.7	232.7	232.7	232.7	232.7	232.7	232.7	232.7	2,793

Key

- A Daily Active vans = All Vanpool "Invoiced" vehicles
- B Daily Seating Available = Actual total of seats in 'A'
- C Occupancy Rate = Assumption based on NTD reporting
- D Average Daily Passengers per Van = (B*C)/A
- E Total Commuter Trips Per Day = C*B*2
- F Total Commuter Trips Per Month = C*B*2*21
- G Cars Off Highways/Parking Spaces Saved per Day = (E/2)-A
- H Cars Off Highways per Month (E/2)-A*21
- I Passenger Trips Eliminated per Day = G*2
- J Passenger Trips Eliminated per Month = G*21 Working Days
- K Vehicle Miles Eliminated = G*1365 (per trip based on average contract miles of A)

Fuel Saved = K/25.2 (assumption 25.2 miles per gallon using USDOT report) taken from website: 1980-2006: U.S. Department of Transportation, National Highway Traffic Safety Administration, Summary of Fuel Economy Performance (Washington, DC: 2005), Internet site:

<http://www.nhtsa.dot.gov/staticfiles/DOT/NHTSA/Vehicle%20Safety/Articles/Associated%20Files/SummaryFuelEconomyPerformance-2005.pdf> as of Dec. 20, 2005.

- M Average SE Regional Fuel cost per Dept. of Energy (http://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EMM_EPMP_PTE_SCA_DPG&f=M)
- N Fuel Savings = L*x [x = M (average fuel cost for regular gas) varies by month.
- O Carbon Monoxide Reduction = Formula taken from DOT (updated 01/07)
- P Carbon Dioxide Reduction Formula via EPA: www.epa.gov/cleanenergy/energy-resources

Equivalency Results

Click on the question mark ? link to read the explanation of that particular calculation. [Read about all calculations.](#)

The information you entered above is equivalent to one of the following statements:

Annual greenhouse gas emissions from 528 passenger vehicles ? ([click to read more about this calculation](#))

CO₂ emissions from 284,055 gallons of gasoline consumed ?

CO₂ emissions from 5,892 barrels of oil consumed ?

CO₂ emissions from 33.4 tanker trucks' worth of gasoline ?

CO₂ emissions from the electricity use of 379 homes for one year ?

CO₂ emissions from the energy use of 130 homes for one year ?

Carbon sequestered by 64,968 tree seedlings grown for 10 years ?

Carbon sequestered annually by 2,077 acres of U.S. forests ?

Carbon sequestered annually by 19.6 acres of U.S. forest preserved from conversion to cropland ?

CO₂ emissions from 105,574 propane cylinders used for home barbeques ?

CO₂ emissions from burning 10.9 railcars' worth of coal ?

Greenhouse gas emissions avoided by recycling 949 tons of waste instead of sending it to the landfill ?

Annual CO₂ emissions of 0.0007 coal fired power plants ?

<http://www.epa.gov/cleanenergy/energy-resources/calculator.html#results>