## 2010 City Of Madison Greenhouse Gas Emissions report Government Operations Emissions Inventory



## Foreword:

In order to bring the reduction of greenhouse gasses to fruition, the crucial first step is to inventory the current amount of greenhouse gasses that are and have been in production within the City of Madison geopolitical area. The local government of Madison seeks to find out the amount of GHGs it is responsible for so that reasonable reduction goals can be set.

This government analysis report presents quantification of current government emissions reduction measures for the City of Madison's participation in ICLEI - Local Governments for Sustainability: Cities for Climate Protection Campaign®. This effort to quantify the City of Madison's greenhouse gas emissions follows the previous baseline year of 2007 report that performed an initial assessment of emissions from City government operations.

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## Abbreviations and Acronyms:

ARB - The California Air Resources Board
BTU - British Thermal Unit; approximately the amount of energy needed to heat 1 pound of water from 39 to $40^{\circ} \mathrm{F}$ ( 3.8 to $4.4^{\circ} \mathrm{C}$ )

CACP - Clean Air and Climate Protection (ICLEI software for conducting GHG reports)
CCAR - California Climate Action Registry
CCB - City County Building (Madison WI)
CDD - Cooling Degree Days
$\mathrm{CH}_{4}$ - methane
CO - carbon monoxide
$\mathrm{CO}_{2}$-carbon dioxide
GHG - Green House Gas
HFCs - Hydrofluorocarbons
HHD - Heating Degree Days
ICLEI - International Council for Local Government Initiative(Local Governments for Sustainability)
LG - Landfill Gas
LGOP - Local Government Operations Protocol
MMB - Madison Municipal Building(Madison WI)
MMBtu- Million BTU
$\mathrm{NO}_{\mathrm{X}}$ - nitrous oxide
$\mathrm{N}_{2} \mathrm{O}$ - nitrous oxide
PFCs - Perfluorocarbons
$\mathrm{SF}_{6}$ - Sulfur hexafluoride
$\mathrm{SO}_{\mathrm{X}}$ - oxides of nitrogen
VOC - volatile organic compound(s)

## Executive summary

In 2010, the city of Madison worked with a team of graduate students to construct an emissions baseline year of 2007, this report compares the 2007 data with the 2010 data. The accuracy of the 2010 inventory has improved from 2007 and will continue to improve as future inventories are completed.

This report was constructed under the guidance of the Local Government Operations Protocol(LGOP) Version 1.0 September 2008 and provides a GHG comparison to the 2007 baseline in terms of carbon dioxide $\left(\mathrm{CO}_{2}\right)$, nitrous oxide $\left(\mathrm{N}_{2} \mathrm{O}\right)$, and methane $\left(\mathrm{CH}_{4}\right)$ and also provides the CAP emissions of nitrous oxide $\left(\mathrm{NO}_{\mathrm{X}}\right)$, oxides of nitrogen $\left(\mathrm{SO}_{\mathrm{X}}\right)$ carbon monoxide (CO) and volatile organic compound(s) (VOC). The protocol states that all six internationallyrecognized greenhouse gases regulated under the Kyoto Protocol should be accounted for $\left(\right.$ Carbon dioxide $\left(\mathrm{CO}_{2}\right)$; Methane $\left(\mathrm{CH}_{4}\right)$; Nitrous oxide $\left(\mathrm{N}_{2} \mathrm{O}\right)$; Hydrofluorocarbons (HFCs); Perfluorocarbons (PFCs); and Sulfur hexafluoride ( $\mathrm{SF}_{6}$ )).

The results of the inventory show that the City of Madison's operations produced 101,384 tons of $\mathrm{CO}_{2}$ equivalent GHG's. This is an increase of 6,661 tons or $7.03 \%$. It should be noted however that refrigerant and landfill gas (LG) emissions were not taken into consideration in the 2007 baseline. In a direct comparison with the 2007 baseline (refrigerant and LG omitted) there is a GHG decrease of $9.78 \%$. Every sector saw a reduction in GHG emissions with the exception of the Buildings and Facilities, Solid Waste Facilities, and the Employee Commute. The increase in the Buildings and Facilities sector can be explained in part by the fact that the total building square footage has increased. The Solid Waste Facilities now include emitted landfill gas. The employee commute estimation has changed significantly (explained in detail in the commuter methodology section) since the baseline which contributes over 1,500 Equivalent CO2 tons. (In reality the commuter traffic most likely has not changed that significantly) The Buildings and Facilities is still the biggest sector with the proportion of the total being $32.6 \%$ The second largest contributor of GHG's is the Water Delivery Facilities. Solid Waste Facilities follow closely behind Water Delivery Facilities; the only emissions that are quantified under this sector are from the city landfills. The waste transportation vehicles are accounted for under the fleet sector and the waste processing facility is accounted for in the Buildings and Facilities sector. GHG emissions numbers from city employee generated solid waste have been determined to be impossible to track because the city's solid waste stream is combined with municipal solid waste. Since solid waste is taken outside of the control boundaries it becomes scope 3 emissions and as such was not accounted for in the 2010 inventory.

In 2010 The City of Madison consumed or produced $14,489,676 \mathrm{kWh}$ worth of renewable energy. The total kWh comes both from the purchase of renewable energy from the utility and from what is produced by the city owned solar systems. Because the LGOP does not have a standard process to account for renewable energy, this green power is not tabulated as a carbon offset. In the government measures section of the CACP software, the green energy was tabulated as 13,365 tons $\mathrm{CO}_{2}$ equivalent reduction at a cost of $\$ 173,876$ ( $\$ 13.01$ per ton of offset carbon) If these measures were able to be included in the GHG inventory in a direct comparison(LG and refrigerant absent) to the 2007 data, the result would be a GHG decrease of 23.89\%.

As can be seen from a comparison of Table 1.1 and Table 1.2 below, the CAP emissions are proportional to the GHG emissions.

|  | $\begin{gathered} \text { CO2 } \\ \text { (tons) } \end{gathered}$ | NO2 <br> (lbs) | CH4 <br> (lbs) | Equiv CO2 <br> (tons) | $\begin{aligned} & \text { Equiv CO2 } \\ & \text { (\%) } \\ & \hline \end{aligned}$ | Energy (kWh) | Cost <br> (\$) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Buildings and Facilities | 32,914 | 943 | 2,194 | 33,084 | 32.6 | 59,020,120 | 3,695,692 |
| Streetlights \& Traffic Signals | 7,188 | 238 | 216 | 7,227 | 7.1 | 7,835,186 | 1,074,304 |
| Water Delivery Facilities | 16,740 | 542 | 568 | 16,830 | 16.6 | 19,854,217 | 1,973,665 |
| Solid Waste Facilities | 15,858 | 0 | 0 | 15,858 | 15.6 | 0 | 0 |
| Vehicle Fleet | 9,736 | 400 | 458 | 9,802 | 9.7 | 35,761,433 | 2,735,805 |
| Employee Commute | 4,416 | 575 | 544 | 4,511 | 4.4 | 16,561,671 | 1,264,950 |
| Transit Fleet | 13,989 | 91 | 95 | 14,004 | 13.8 | 50,840,308 | 3,742,081 |
| Other Process Fugitive | 0 | 0 | 0 | 39 | 0.0 |  |  |
| Mobile Source Refrigerants | 0 | 0 | 0 | 29 | 0.0 |  |  |
| Total | 100,841 | 2,789 | 4,075 | 101,384 | 100.0 | 189,872,934 | 14,486,497 |

Table 1.1 GHG inventory results

|  | NOx <br> (lbs) | SOx <br> (lbs) | CO (lbs) | VOC <br> (lbs) | PM10 <br> (lbs) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Buildings <br> and <br> Facilities | 124,958 | 348,865 | 29,301 | 3,225 | 25,151 |
| Streetlights <br> \& Traffic <br> Signals | 24,751 | 64,828 | 4,677 | 526 | 4,066 |
| Water <br> Delivery <br> Facilities | 57,413 | 147,341 | 10,930 | 1,259 | 9,275 |
| Vehicle <br> Fleet | 46,647 | 3,502 | 174,936 | 27,841 | 4,612 |
| Employee <br> Commute | 25,097 | 1,414 | 309,437 | 30,238 | 666 |
| Transit <br> Fleet | 258,360 | 8,405 | 169,938 | 21,617 | 12,807 |
| Total | 540,227 | 574,355 | 699,219 | 84,707 | 56,577 |

Table 1.2 CAP Emissions

## Introduction

Global Climate change is a scientifically proven problem that is affecting and will continue to affect all of humanity and the near and long term future. Local Governments around the world are taking steps to reduce their GHG emissions. In order to track progress and trends in the reduction of GHG's, actual accounting of GHG's is a necessary process.
The continuing GHG inventory constitutes political, social, economic, and most importantly environmental benefits. By providing the public GHG data, they will see that the government does care about issues that concern them. If laws are established that require the tracking or reduction of GHG's, Madison will be prepared. The inventory will promote discussions about Global Climate Change as well as energy waste. With reduction in energy also comes reduction in GHG's as well as a cost savings to the city and ultimately to its citizens. The most important benefit of reducing GHG's is having breathable air, a comfortable place to live, and the preservation of our ecosystem.

## Local Government Profile Information

City of Madison Size- 75.973(2007) Source: US Census
City of Madison Population- 223,389(2006) 235,419(2009) Source: US Census
City of Madison Annual budget- The total 2010 budget is listed below in table 2.1. The table does not include debt service or miscellaneous costs.

Employees- The number of people employed by the City of Madison at the end of 2010 was 3,140.


| General <br> Government | $\$ 1,745,522$ |
| :--- | ---: |
| Public Facilities | $\$ 1,795,873$ |
| Libraries | $\$ 13,711,123$ |
| Dept. of Planning <br> and Development | $\$ 15,959,836$ |
| Administration | $\$ 17,634,211$ |
| Dept. of Public <br> Works \& Transp. | $\$ 55,658,455$ |
| Public Safety and <br> Health | $\$ 106,495,838$ |
| Total | $\$ 213,000,858$ |

Fig 1.1 City Expenditure Summary
Table 2.1 City Expenditure Summary
Source: City of Madison Comprehensive Annual Financial Report

## Madison Climate Data

Climate Zone- According to energycodes.gov
(http://energycode.pnl.gov/EnergyCodeReqs/?state=Wisconsin)
The county of Dane in which the City of Madison resides is in climate zone 6.(fig 2.1) The insulation requirements for zone 6 are shown in fig 2.2


Fig 2.1

| Glimate Zone 6 |  |
| :---: | :---: |
| Ceiling R -value | 49 |
| Whood Frame Wall R-value | 20 or $13+5^{\text {h }}$ |
| Mass wall R-value ${ }^{i}$ | 15/19 |
| Floor R-value | $30^{9}$ |
| Basement Wall R-value ${ }^{\text {c }}$ | 15/19 |
| Slab R-value ${ }^{\text {d }}$, Depth | 10, 4 ft |
| Crawlspace Wall R -value ${ }^{\text {c }}$ | 10/13 |
| Fenestration U-Factor ${ }^{\text {b }}$ | 0.35 |
| Skylight U-Factor ${ }^{\text {b }}$ | 0.60 |
| Glazed fenestration SHGC ${ }^{\text {b, e }}$ | NR |

Fig 2.2

The table and the figures below show the heating and cooling degree days for south central Wisconsin. (Source: http://www7.ncdc.noaa.gov/CDO/CDODivisionalSelect.jsp\#)

| Year/Month | CDD | HHD |
| ---: | ---: | ---: |
| 201001 | 0 | 1469 |
| 201002 | 0 | 1165 |
| 201003 | 0 | 818 |
| 201004 | 6 | 396 |
| 201005 | 53 | 195 |
| 201006 | 142 | 40 |
| 201007 | 286 | 0 |
| 201008 | 256 | 12 |
| 201009 | 28 | 151 |
| 201010 | 9 | 409 |
| 201011 | 0 | 792 |
| 201012 | 0 | 1442 |

Table 2.2


2010 South Central Wisconsin HDD Fig 2.3


2010 South Central Wisconsin CDD Fig 2.4

## ICLEI: Local Governments for Sustainability

ICLEI - Local Governments for Sustainability is an association of over 1220 local government Members who are committed to sustainable development.

ICLEI is an international association of local governments as well as national and regional local government organizations who have made a commitment to sustainable development.
ICLEI provides technical consulting, training, and information services to build capacity, share knowledge, and support local governments in the implementation of sustainable development at the local level. ICLEI's basic premise is that locally designed initiatives can provide an effective and cost efficient way to achieve local, national, and global sustainability objectives.

ICLEI was founded in 1990 as the 'International Council for Local Environmental Initiatives'. The Council was established when more than 200 local governments from 43 countries convened at the inaugural conference, the World Congress of Local Governments for a Sustainable Future, at the United Nations in New York.

The City of Madison has been an ICLEI member since 2006. One of the benefits of membership for the city is access to tools and support for GHG accounting. The GHG calculator provided by ICLEI is called Clean Air and Climate Protection (CACP) and provides GHG accounting for the community as well as local governments.

## The Local Government Operations Protocol

The Local Government Operations Protocol(LGOP) is "designed to provide a standardized set of guidelines to assist local government in quantifying and reporting GHG emissions associated with their government operations". LGOP is based on the Greenhouse Gas Protocol: A Corporate Accounting and Reporting standard, which in an accounting system developed by the World Resources Institute and World Business Council for Sustainable Development. LGOP was developed in partnership by the California Air Resources Board (ARB), the California Climate Action Registry(CCAR) and ICLEI-Local Government for Sustainability in collaboration with the Climate Registry and other stakeholders. The LGOP is "the most widely used international accounting tool for government and business leaders to understand, quantify, and manage greenhouse gas emissions."

The purpose of the LGOP is to

- Enable local governments to develop emissions inventories following internationally recognized GHG accounting and reporting principles defined with attention to the unique context of local government operations;
- Advance the consistent, comparable, and relevant quantification of emissions and appropriate, transparent, and policy-relevant reporting of emissions;
- Enable measurement towards climate goals;
- Promote understanding of the role of local government operations in combating climate change;
- Help to create harmonization between GHG inventories developed and reported to multiple programs.

Reductions in emissions are reported by comparing emissions inventories of the local government over time. Accurate and standardized internal methods of reporting are important to ensure that accurate time series comparisons can be made. It is important to note that the inventory is not intended to be used to compare emissions between local governments, but rather for internal policy formation and program evaluation. As under their respective jurisdictional boundaries, fair and accurate comparisons are improbable.

The LGOP defines a method of tracking sources of emissions to produce an accurate calculation of the aforementioned GHGs. To quantify these emissions, local government activities are categorized by organizational boundaries, scopes, and sectors. By defining sources of emissions by scope and establishing organizational boundaries, the LGOP ensures that a regional GHG inventory conducted in the future by a neighboring local government will not overlap our double count emissions from a neighboring municipal government with a pre-existing baseline. As a result the CACP may not always produce comprehensive estimates of GHGs associated with a particular municipal area, particularly if significant emission sources belong to an adjoining municipality, county, or state. Rather, the LGOP methodology as implemented in the CACP software focuses on producing GHG emission estimates for sources that fall under the direct control of the municipality performing the inventory, allowing policy makers to focus on what can be changed rather that serve as a tool to cast blame across jurisdictional borders. CACP was most recently updated in April 2010.

## Scopes

The LGOP divides emissions into three groups for accounting purposes: direct, indirect, and other indirect emissions.

- Scope 1: Direct emissions

1. Vehicle engine combustion
2. On-site natural gas combustion
3. Refrigerants leaked from refrigerators and air-conditioners

- Scope 2: Indirect emissions

1. Off-site electricity production
2. Off-site heat or steam

- Scope 3:Other indirect emissions(optional)

1. Employee commute vehicle emissions
2. Employee waste production
3. Contracted services

Sectors
Based on the LGOP scopes, the CACP software specifies twelve government sectors for analysis. The software is structured so that all inputs must be entered into separate sectors. This
allows analysts to break down emissions into distinct areas in order to use the resulting output to better target emissions reductions policy.

The following sectors were reported:

- Buildings and other Facilities - buildings operated by the city (39.69 \% of the City County Building is owned/utilized by City of Madison operations.
- Streetlights and traffic signals
- Vehicle fleet - Garbage trucks, Fire trucks, Building inspection, Water trucks, etc.
- Employee commute - City employees' personal vehicle transportation to work miles.
- Transit fleet - city busses and assist vehicles
- Water delivery facilities - any building or water distribution facility operated by the water utility
- Solid waste facilities- landfill gas

Refrigerants - The amount of refrigerants replaced in stationary or mobile sources in 2010.
The following sectors are not owned by the City and as such were not reported:

- Power generation facilities
- Port facilities
- Airport facilities
- Other industrial processes


## Organizational Boundaries

Under the LGOP, local governments must choose to account for either emission sources over which they have operational control or financial control. The City of Madison chose to report its emissions based on operational control. The City of Madison partially funds low-income residential housing through its community Development Authority, the City is not accountable for the GHGs produced from the electricity and natural gas consumed. The emissions have been accounted for in the community assessment.

Some examples of facilities that Madison has no operational control and therefore no emissions were accounted for are:

- Dane County Regional Airport
- Municipal power plants
- Transportation systems other than Madison Metro Bus Operations
- Madison Metropolitan Sewage District(Classified as Scope 3 since the city has no operational control)
- Industrial facilities

The city does not maintain any active landfills, however, the existing landfills within the city still consume energy for extraction of landfill gas and other equipment uses so landfill gas GHGs have been included.

## Methodology

## Coefficients

Emissions factors are "calculated ratios relating GHG emissions to a proxy measure of activity in an emissions source." When multiplied by the "activity data" or amount of use for a sector the CACP software determines the amount of emissions associate with that sector of local government. Emissions factors are established regionally but several utilities have established and verified their own more specific coefficients. For the City of Madison Government Operations report, the emissions Factors from the EPA's eGrid subregion 13(MROE) was used as per ICLEI recommendations and as directed by the LGOP Appendix G.


Fig 2.5 Map of U.S. eGRID Subregions Source: LGOP

The last local government operations report was a baseline report and was for 2007 data. Future GHG reports will be produced biannually. As the city moves forward with future GHG inventories, it is likely that the the accuracy of the reported data has increased and will continue to do so.

The city county building- The city occupies $39.69 \%$ of the City County building and as a result the gas, electric, and steam data was multiplied by .3969 to obtain actual city government usage. The difference between the baseline of 2007 and the reporting year of 2010 is that the steam data in the baseline was converted to an electricity equivalent and in the 2010 reporting year the MMBtu's that the city was charged for was entered into the CACP software as commercial coal since that is the fuel that is used in the steam plant where the building gets its heating energy.

It should be noted that $22 \%$ of the power purchased throughout the city of Madison was green power. Two large energy users purchased more than $22 \%$, Transit Utility purchased $68 \%$ Monona Terrace purchased $48 \%$ green power. As per the LGOP, the green power purchased does not offset any of the calculated emissions emitted.

## Commuter survey

A survey was sent out to all of the city of Madison employees with email accounts (approximately $80 \%$ of the people that the city employs) 707 people responded (just under 30\%) with the results as follows:

Survey participants were given the freedom to input as much information as they wanted. When a respondent failed to leave an answer standard data was used so that calculations could be preformed.

24 respondents failed to give a car model or approximate gas mileage for their vehicle.
9 respondents failed to give commute distance.
6 respondents failed to give commute days/week.
The standardized answers were as follows:
Gas mileage or car model: 20 mpg (mean value for gas mileage of those that did respond) Commute distance: 16 miles (taken from national mean travel distance ref www.fueleconomy.gov/)
Days/week: 5
When a range of values was given, the mean value of the range was used (eg. My car gets 20-22 mpg calculated as 21 mpg .
If a respondent gave the car model instead of mpg's, then www.fueleconomy.gov/ was used to determine gas mileage based on the EPA estimate. To calculate gasoline costs, average regular 2010 pump price of $\$ 2.78$, to calculate Diesel costs the on highway retail number of $\$ 2.99$ was used http://www.eia.doe.gov/steo/

The number of gallons of gasoline was calculated by multiplying the commute distance by the number of days commuted per week. Then the total miles was divided by the gas mileage to obtain gallons. A summation of gallons was then divided by the number of survey respondents to obtain an annual average gallons per person. The gallons per person number then was multiplied by the total number of employees in the city resulting in a grand annual total of 455,019 gallons. It should be noted that all vehicles in this survey were treated as regular unleaded gasoline consuming ones.

## Government Operations Inventory Results

In 2010 the City of Madison used over 54 million kWh of electricity, nearly 1 million therms of natural gas and over 5 million kWh of steam.

|  | Natural Gas <br>  <br> (therms) |  | Steam (kWh) |
| :--- | ---: | :--- | ---: | ---: |
| Buildings and Facilities | $28,338,911$ | 848,512 | $5,682,622$ |
| Streetlights and <br> Signals | $7,835,186$ | 802 |  |
| Water Delivery <br> Facilities | $18,161,986$ | 70,042 |  |
| totals | $54,336,083$ | 919,356 | $5,682,622$ |

Table 3.1 2010 Results
By comparing table 3.1 to 3.2 , it can be observed that the overall electric consumption in the city went down even though the energy consumption for streetlights and buildings went up.

|  | Electricity(kWh) | Natural Gas <br> (therms) | Steam (kWh) |
| :--- | ---: | ---: | ---: |
| Buildings and <br> Facilities | $26,155,679$ | 800,838 | $5,052,752$ |
| Streetlights and <br> Signals | $7,587,453$ | 370,905 |  |
| Water Delivery <br> Facilities | $23,023,014$ | 43,274 |  |
| totals | $57,123,752$ | $1,215,017$ | $5,052,752$ |

Table 3.2 2007 Results (For Comparison)
In 2010 the City of Madison Operations consumed 1.8 million gallons of diesel fuel and nearly 830 thousand gallons of regular unleaded fuel.

|  | Gallons of Diesel | Gallons of Gasoline |
| :---: | :---: | :---: |
| Transit fleet | 1,243,919 | 8,173 |
| Vehicle fleet | 574,522 | 366,181 |
| Employee Commute |  | 455,018 |
| Totals | 1,818,441 | 829,372 |

Total fuel gallons
2,647,813

Table 3.3 2010 Results
Even though the diesel consumption from the city vehicle fleet increased, the total amount of diesel consumed dropped by over 100,000 gallons and the total fuel dropped by over 50,000 gallons. This is likely due in part to the hybrid electric busses. Every sector saw an increase in regular gasoline fuel consumption.

|  | Gallons of Diesel | Gallons of Gasoline |
| :---: | :---: | :---: |
| Transit fleet | 1,315,125 | 10,642 |
| Vehicle fleet | 681,838 | 385,685 |
| Employee Commute |  | 309,941 |
| Totals | 1,996,963 | 706,268 |

Total fuel gallons
2,703,231
Table 3.4 2007 Results

Summary by Sector
As shown in fig 3.1, the Buildings and Facilities sector is the largest portion of total GHG's. The energy use is comprised of heating, cooling, and power in the City of Madison's buildings.
The line represents the Energy cost and the bars show carbon equivalent


Figure 3.1 Summary by Sector- $\mathrm{CO}_{2}$ Equivalent and Cost

Summary by Source
As can be seen from the tables below, the largest portion of $\mathrm{CO}_{2}$ Equivalent came from electricity use. The second largest contributor was diesel fuel.

|  | $\begin{array}{r} \mathrm{CO}_{2} \\ \text { (tons) } \end{array}$ | $\begin{aligned} & \mathrm{H}_{2} \mathrm{O} \\ & \text { (llis) } \end{aligned}$ | $\begin{gathered} \mathrm{CH}_{4} \\ \text { ( } \mathrm{lbs} \text { ) } \end{gathered}$ |  | $\begin{array}{r} \mathrm{vCO}_{2} \\ (\%) \end{array}$ | Energy (kWh) | Cost (\$) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Carbon Dioxide | 15,858 | 0 | 0 | 15,858 | 15.6 | 0 | 0 |
| Commercial Coal | 2,037 | 68 | 470 | 2,053 | 2.0 | 5,680,795 | 124,519 |
| Diesel | 20,334 | 110 | 101 | 20,352 | 20.1 | 73,886,782 | 5,437,139 |
| Electricity | 49,374 | 1,634 | 1,485 | 49,643 | 49.0 | 53,822,084 | 5,941,352 |
| Gasoline | 7,807 | 956 | 995 | 7,966 | 7.9 | 29,276,629 | 2,305,698 |
| HFC-134a 236cb 43-10mee | 0 | 0 | 0 | 39 | 0.0 |  | 0 |
| Hatural Gas | 5,431 | 20 | 1,024 | 5,445 | 5.4 | 27,206,643 | 677,790 |
| R-412A Blend | 0 | 0 | 0 | 29 | 0.0 |  | 0 |
| Total | 100,841 | 2,789 | 4,075 | 101,384 | 100.0 | 189,872,934 | 14,486,497 |

Table 4.1-GHG emissions by Source

|  | $\begin{aligned} & \text { HOx } \\ & \text { (lbs) } \end{aligned}$ | $\begin{aligned} & \text { Sox } \\ & \text { (Ibs) } \end{aligned}$ | $\begin{array}{r} \mathrm{Co} \\ \text { (lbs) } \end{array}$ | voc <br> (ibs) | PM10 <br> (Ibs) | PM2.5 (Ibs) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commercial Coal | 21,499 | 115,088 | 8,753 | 539 | 10,082 | 0 |
| Diesel | 293,788 | 11,277 | 201,379 | 34,757 | 17,104 | 0 |
| Electricity | 170,024 | 445,324 | 32,126 | 3,611 | 27,934 | 0 |
| Gasoline | 39,316 | 2,045 | 452,932 | 44,940 | 980 | 0 |
| Hatural Gas | 15,600 | 622 | 4,028 | 859 | 477 | 0 |
| Total | 540,227 | 574,355 | 699,219 | 84,707 | 56,577 | 0 |

Table 4.2-CAP emissions by Source


Fig 4.1 City of Madison Building Electricity use Breakdown.


Fig 4.2 City of Madison Natural Gas Breakdown

Appendix A

## Government Greenhouse Gas Emissions in 2010 Detailed Report

## Government Criteria Air Pollutants Emissions in 2010 Detailed Report

Appendix B

GHG survey results

Approximately how many miles do you live away from work (round to nearest half mile)?


|  | 8:34 PM |  | 62 | Nov 8, 2010 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 34 | Nov 8, 2010 8.35 PM |  |  | Nov 8, 2010 | 6 |
|  | Nov 8, 2010 |  | 63 | 8:36 PM |  |
| 35 | 8:35 PM |  |  | Nov 8, 2010 | 10.5 |
|  | Nov 8, 2010 |  | 64 | 8:36 PM |  |
| 36 | 8:35 PM | 9 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 65 | 8:36 PM |  |
| 37 | 8:35 PM |  |  | Nov 8, 2010 | 2 |
|  | Nov 8, 2010 |  | 66 | 8:36 PM |  |
| 38 | 8:35 PM |  |  | Nov 8, 2010 | 21 |
|  | Nov 8, 2010 |  | 67 | 8:36 PM |  |
| 39 | 8:35 PM |  |  | Nov 8, 2010 | 2.5 |
|  | Nov 8, 2010 |  | 68 | 8:36 PM |  |
| 40 | 8:35 PM |  |  | Nov 8, 2010 | 2 |
|  | Nov 8, 2010 |  | 69 | 8:36 PM | 28 miles round trip |
| 41 | 8:35 PM |  |  | Nov 8, 2010 | 24 |
|  | Nov 8, 2010 |  | 70 | 8:36 PM |  |
| 42 | 8:35 PM |  |  | Nov 8, 2010 | 2.5 |
|  | Nov 8, 2010 |  | 71 | 8:37 PM |  |
| 43 | 8:35 PM |  |  | Nov 8, 2010 | 6 |
|  | Nov 8, 2010 |  | 72 | 8:37 PM |  |
| 44 | 8:35 PM |  |  | Nov 8, 2010 | 5 |
|  | Nov 8, 2010 |  | 73 | 8:37 PM |  |
| 45 | 8:35 PM |  |  | Nov 8, 2010 | 10 |
|  | Nov 8, 2010 |  | 74 | 8:37 PM |  |
| 46 | 8:35 PM |  |  | Nov 8, 2010 | 5 |
|  | Nov 8, 2010 |  | 75 | 8:37 PM |  |
| 47 | 8:35 PM |  |  | Nov 8, 2010 | 5 |
|  | Nov 8, 2010 |  | 76 | 8:37 PM |  |
| 48 | 8:35 PM |  |  | Nov 8, 2010 | 2 |
|  | Nov 8, 2010 |  | 77 | 8:37 PM | 12 miles per day |
| 49 | 8:35 PM |  |  | Nov 8, 2010 | 10 |
|  | Nov 8, 2010 |  | 78 | 8:37 PM |  |
| 50 | 8:35 PM |  |  | Nov 8, 2010 | 7 |
|  | Nov 8, 2010 |  | 79 | 8:37 PM |  |
| 51 | 8:35 PM |  |  | Nov 8, 2010 | 9 |
|  | Nov 8, 2010 |  | 80 | 8:37 PM |  |
| 52 | 8:35 PM |  |  | Nov 8, 2010 | 33 |
|  | Nov 8, 2010 |  | 81 | 8:37 PM |  |
| 53 | 8:35 PM | . 5 (one-half mile) |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 82 | 8:37 PM |  |
| 54 | 8:35 PM |  |  | Nov 8, 2010 | 11 |
|  | Nov 8, 2010 |  | 83 | 8:37 PM |  |
| 55 | 8:35 PM |  |  | Nov 8, 2010 | 6 |
|  | Nov 8, 2010 |  | 84 | 8:37 PM |  |
| 56 | 8:35 PM |  |  | Nov 8, 2010 | 16 |
|  | Nov 8, 2010 |  | 85 | 8:38 PM |  |
| 57 | 8:35 PM | 1 mile |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 86 | 8:38 PM | 6 miles from work |
| 58 | 8:35 PM |  |  | Nov 8, 2010 | 7.5 |
|  | Nov 8, 2010 |  | 87 | 8:38 PM |  |
| 59 | 8:35 PM | 30 MILES |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 88 | 8:38 PM |  |
| 60 | 8:35 PM |  |  | Nov 8, 2010 | 7 |
|  | Nov 8, 2010 |  | 89 | 8:38 PM |  |
| 61 | 8:35 PM | 10 miles | 90 | Nov 8, 2010 |  |


| 8:38 PM |  |  |  | Nov 8, 2010 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nov 8, 2010 |  | 119 | 8:42 PM |  |
| 91 | 8:38 PM |  |  | Nov 8, 2010 | 13 |
|  | Nov 8, 2010 |  | 120 | 8:42 PM |  |
| 92 | 8:39 PM |  |  | Nov 8, 2010 | 10 |
|  | Nov 8, 2010 |  | 121 | 8:42 PM |  |
| 93 | 8:39 PM | 9 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 122 | 8:42 PM |  |
| 94 | 8:39 PM |  |  | Nov 8, 2010 | 10 |
|  | Nov 8, 2010 |  | 123 | 8:42 PM |  |
| 95 | 8:40 PM | five |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 124 | 8:42 PM |  |
| 96 | 8:40 PM | 36 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 125 | 8:42 PM | 5.5 miles |
| 97 | 8:40 PM |  |  | Nov 8, 2010 | 6 |
|  | Nov 8, 2010 |  | 126 | 8:42 PM |  |
| 98 | 8:40 PM | 7.5 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 127 | 8:43 PM |  |
| 99 | 8:40 PM |  |  | Nov 8, 2010 | 0.5 |
|  | Nov 8, 2010 |  | 128 | 8:43 PM |  |
| 100 | 8:40 PM | 2.5 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 129 | 8:43 PM |  |
| 101 | 8:40 PM | 30 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 130 | 8:43 PM |  |
| 102 | 8:40 PM |  |  | Nov 8, 2010 | 6.5 |
|  | Nov 8, 2010 |  | 131 | 8:43 PM | 24.5 miles |
| 103 | 8:40 PM |  |  | Nov 8, 2010 | 5 |
|  | Nov 8, 2010 |  | 132 | 8:43 PM |  |
| 104 | 8:40 PM |  |  | Nov 8, 2010 | 13 |
|  | Nov 8, 2010 |  | 133 | 8:43 PM |  |
| 105 | 8:40 PM |  |  | Nov 8, 2010 | 4 |
|  | Nov 8, 2010 |  | 134 | 8:44 PM |  |
| 106 | 8:40 PM |  |  | Nov 8, 2010 | 12 |
|  | Nov 8, 2010 |  | 135 | 8:44 PM |  |
| 107 | 8:40 PM |  |  | Nov 8, 2010 | 8 |
|  | Nov 8, 2010 |  | 136 | 8:44 PM |  |
| 108 | 8:40 PM | Two |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 137 | 8:44 PM |  |
| 109 | 8:40 PM |  |  | Nov 8, 2010 | 13 |
|  | Nov 8, 2010 |  | 138 | 8:44 PM | 4 Miles |
| 110 | 8:41 PM |  |  | Nov 8, 2010 | 5 |
|  | Nov 8, 2010 |  | 139 | 8:44 PM |  |
| 111 | 8:41 PM | 13 miles from Ma |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 140 | 8:45 PM |  |
| 112 | 8:41 PM |  |  | Nov 8, 2010 | 12 |
|  | Nov 8, 2010 |  | 141 | 8:45 PM |  |
| 113 | 8:41 PM |  |  | Nov 8, 2010 | 4 |
|  | Nov 8, 2010 |  | 142 | 8:46 PM |  |
| 114 | 8:41 PM | 16 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 143 | 8:46 PM |  |
| 115 | 8:41 PM |  |  | Nov 8, 2010 | 2 |
|  | Nov 8, 2010 |  | 144 | 8:46 PM |  |
| 116 | 8:41 PM | 15 mi . |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 145 | 8:46 PM |  |
| 117 | 8:41 PM |  |  | Nov 8, 2010 | 2.5 |
|  | Nov 8, 2010 |  | 146 | 8:47 PM |  |
| 118 | 8:41 PM |  | 147 | Nov 8, 2010 | 7 |


|  | 8:47 PM |  |  | Nov 8, 2010 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nov 8, 2010 |  | 176 | 8:53 PM |  |  |
| 148 | 8:47 PM |  |  | Nov 8, 2010 |  | 6 |
|  | Nov 8, 2010 |  | 177 | 8:53 PM |  |  |
| 149 | 8:47 PM |  |  | Nov 8, 2010 |  | 20 |
|  | Nov 8, 2010 |  | 178 | 8:53 PM |  |  |
| 150 | 8:48 PM | 11 miles |  | Nov 8, 2010 |  |  |
|  | Nov 8, 2010 |  | 179 | 8:53 PM |  |  |
| 151 | 8:49 PM |  |  | Nov 8, 2010 |  | 20 |
|  | Nov 8, 2010 |  | 180 | 8:53 PM | 2 miles |  |
| 152 | 8:49 PM |  |  | Nov 8, 2010 |  | 5 |
|  | Nov 8, 2010 |  | 181 | 8:53 PM |  |  |
| 153 | 8:49 PM |  |  | Nov 8, 2010 |  | . 7 |
|  | Nov 8, 2010 |  | 182 | 8:53 PM |  |  |
| 154 | 8:49 PM |  |  | Nov 8, 2010 |  | 8 |
|  | Nov 8, 2010 |  | 183 | 8:54 PM |  |  |
| 155 | 8:49 PM |  |  | Nov 8, 2010 |  | 9 |
|  | Nov 8, 2010 |  | 184 | 8:54 PM |  |  |
| 156 | 8:49 PM |  |  | Nov 8, 2010 |  | 15 |
|  | Nov 8, 2010 |  | 185 | 8:54 PM |  |  |
| 157 | 8:49 PM |  |  | Nov 8, 2010 |  | 16 |
|  | Nov 8, 2010 |  | 186 | 8:55 PM |  |  |
| 158 | 8:49 PM |  |  | Nov 8, 2010 |  | 9 |
|  | Nov 8, 2010 |  | 187 | 8:55 PM |  |  |
| 159 | 8:49 PM |  |  | Nov 8, 2010 |  | 6 |
|  | Nov 8, 2010 |  | 188 | 8:55 PM |  |  |
| 160 | 8:50 PM |  |  | Nov 8, 2010 |  | 5 |
|  | Nov 8, 2010 |  | 189 | 8:55 PM |  |  |
| 161 | 8:50 PM |  |  | Nov 8, 2010 |  | 2 |
|  | Nov 8, 2010 |  | 190 | 8:56 PM |  |  |
| 162 | 8:50 PM |  |  | Nov 8, 2010 |  | 14 |
|  | Nov 8, 2010 |  | 191 | 8:56 PM |  |  |
| 163 | 8:50 PM |  |  | Nov 8, 2010 |  | 9 |
|  | Nov 8, 2010 |  | 192 | 8:56 PM |  |  |
| 164 | 8:50 PM |  |  | Nov 8, 2010 |  | 16 |
|  | Nov 8, 2010 |  | 193 | 8:56 PM |  |  |
| 165 | 8:51 PM | six |  | Nov 8, 2010 |  |  |
|  | Nov 8, 2010 |  | 194 | 8:56 PM |  |  |
| 166 | 8:51 PM | 13.7 miles |  | Nov 8, 2010 |  |  |
|  | Nov 8, 2010 |  | 195 | 8:57 PM |  |  |
| 167 | 8:51 PM | 10 miles |  | Nov 8, 2010 |  |  |
|  | Nov 8, 2010 |  | 196 | 8:57 PM |  |  |
| 168 | 8:51 PM | 7.5 miles |  | Nov 8, 2010 |  |  |
|  | Nov 8, 2010 |  | 197 | 8:58 PM |  |  |
| 169 | 8:51 PM |  |  | Nov 8, 2010 |  | 6 |
|  | Nov 8, 2010 |  | 198 | 8:58 PM |  |  |
| 170 | 8:51 PM |  |  | Nov 8, 2010 |  | 2 |
|  | Nov 8, 2010 |  | 199 | 8:59 PM |  |  |
| 171 | 8:52 PM |  |  | Nov 8, 2010 |  | 14 |
|  | Nov 8, 2010 |  | 200 | 9:00 PM |  |  |
| 172 | 8:52 PM |  |  | Nov 8, 2010 |  | 26 |
|  | Nov 8, 2010 |  | 201 | 9:00 PM | 5.5 on th | the bike path |
| 173 | 8:52 PM |  |  | Nov 8, 2010 |  | 23 |
|  | Nov 8, 2010 |  | 202 | 9:00 PM |  |  |
| 174 | 8:52 PM |  |  | Nov 8, 2010 |  | 35 |
|  | Nov 8, 2010 |  | 203 | 9:00 PM |  |  |
| 175 | 8:52 PM |  | 204 | Nov 8, 2010 |  | . 5 |


|  | 9:01 PM |  |  | Nov 8, 2010 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nov 8, 2010 |  | 233 | 9:08 PM |  |
| 205 | 9:01 PM |  |  | Nov 8, 2010 | 15 |
|  | Nov 8, 2010 |  | 234 | 9:08 PM |  |
| 206 | 9:02 PM |  |  | Nov 8, 2010 | 2 |
|  | Nov 8, 2010 |  | 235 | 9:09 PM |  |
| 207 | 9:02 PM |  |  | Nov 8, 2010 | 10 |
|  | Nov 8, 2010 |  | 236 | 9:09 PM |  |
| 208 | 9:02 PM | 5 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 237 | 9:09 PM |  |
| 209 | 9:02 PM | 45 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 238 | 9:09 PM |  |
| 210 | 9:02 PM |  |  | Nov 8, 2010 | 0.5 |
|  | Nov 8, 2010 |  | 239 | 9:09 PM |  |
| 211 | 9:02 PM |  |  | Nov 8, 2010 | 7 |
|  | Nov 8, 2010 |  | 240 | 9:10 PM |  |
| 212 | 9:02 PM |  |  | Nov 8, 2010 | 4.5 |
|  | Nov 8, 2010 |  | 241 | 9:10 PM |  |
| 213 | 9:02 PM |  |  | Nov 8, 2010 | 4 |
|  | Nov 8, 2010 |  | 242 | 9:11 PM |  |
| 214 | 9:03 PM |  |  | Nov 8, 2010 | 15 |
|  | Nov 8, 2010 |  | 243 | 9:11 PM | 2 miles |
| 215 | 9:03 PM |  |  | Nov 8, 2010 | 6 |
|  | Nov 8, 2010 |  | 244 | 9:11 PM |  |
| 216 | 9:03 PM |  |  | Nov 8, 2010 | 1.2 |
|  | Nov 8, 2010 |  | 245 | 9:11 PM |  |
| 217 | 9:04 PM | ten |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 246 | 9:11 PM |  |
| 218 | 9:04 PM |  |  | Nov 8, 2010 | 45 |
|  | Nov 8, 2010 |  | 247 | 9:11 PM |  |
| 219 | 9:04 PM |  |  | Nov 8, 2010 | 10 |
|  | Nov 8, 2010 |  | 248 | 9:12 PM |  |
| 220 | 9:04 PM |  |  | Nov 8, 2010 | 3.5 |
|  | Nov 8, 2010 |  | 249 | 9:12 PM |  |
| 221 | 9:04 PM | 6 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 250 | 9:12 PM |  |
| 222 | 9:05 PM | 7 miles |  | Nov 8, 2010 |  |
|  | Nov 8, 2010 |  | 251 | 9:12 PM |  |
| 223 | 9:05 PM |  |  | Nov 8, 2010 | 54 |
|  | Nov 8, 2010 |  | 252 | 9:13 PM |  |
| 224 | 9:05 PM |  |  | Nov 8, 2010 | 35 |
|  | Nov 8, 2010 |  | 253 | 9:13 PM |  |
| 225 | 9:05 PM |  |  | Nov 8, 2010 | 10 |
|  | Nov 8, 2010 |  | 254 | 9:13 PM |  |
| 226 | 9:05 PM |  |  | Nov 8, 2010 | 6 |
|  | Nov 8, 2010 |  | 255 | 9:14 PM |  |
| 227 | 9:06 PM |  |  | Nov 8, 2010 | 5 |
|  | Nov 8, 2010 |  | 256 | 9:14 PM | 7 miles |
| 228 | 9:06 PM |  |  | Nov 8, 2010 | 11 |
|  | Nov 8, 2010 |  | 257 | 9:14 PM |  |
| 229 | 9:07 PM |  |  | Nov 8, 2010 | 8.5 |
|  | Nov 8, 2010 |  | 258 | 9:15 PM | 25 miles |
| 230 | 9:07 PM |  |  | Nov 8, 2010 | 7.5 |
|  | Nov 8, 2010 |  | 259 | 9:15 PM |  |
| 231 | 9:07 PM |  |  | Nov 8, 2010 | 40 |
|  | Nov 8, 2010 |  | 260 | 9:16 PM |  |
| 232 | 9:07 PM |  | 261 | Nov 8, 2010 | 100 |


|  | 9:16 PM |  | Nov 8, 2010 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Nov 8, 2010 | 290 | 9:38 PM |  |
| 262 | 9:17 PM |  | Nov 8, 2010 | 1 |
|  | Nov 8, 2010 | 291 | 9:38 PM |  |
| 263 | 9:18 PM |  | Nov 8, 2010 | 1 |
|  | Nov 8, 2010 | 292 | 9:40 PM |  |
| 264 | 9:19 PM |  | Nov 8, 2010 | 10 |
|  | Nov 8, 2010 | 293 | 9:41 PM |  |
| 265 | 9:20 PM |  | Nov 8, 2010 | 12 |
|  | Nov 8, 2010 | 294 | 9:44 PM |  |
| 266 | 9:21 PM |  | Nov 8, 2010 | 25 |
|  | Nov 8, 2010 | 295 | 9:46 PM | 5 MILES |
| 267 | 9:21 PM |  | Nov 8, 2010 | 5 |
|  | Nov 8, 2010 | 296 | 9:46 PM |  |
| 268 | 9:22 PM |  | Nov 8, 2010 | 0.5 |
|  | Nov 8, 2010 | 297 | 9:46 PM |  |
| 269 | 9:23 PM |  |  | Currentlg my commute be |
|  | Nov 8, 2010 |  |  | 10 mi , mostly on interstate |
| 270 | 9:23 PM |  |  | locatedi in proximity to my |
|  | Nov 8, 2010 |  |  |  |
| 271 | 9:23 PM |  |  | Starting $\ddagger$ December, due |
|  | Nov 8, 2010 |  |  | decisions, my commute b |
| 272 | 9:25 PM |  |  | office vidid increase to 16 n |
|  | Nov 8, 2010 |  |  | the distance between my |
| 273 | 9:25 PM |  |  | geograpdic service area a |
|  | Nov 8, 2010 |  |  | December, both my comn |
| 274 | 9:26 PM |  |  | betweerrmy assigned offi |
|  | Nov 8, 2010 |  |  | increases because of hea |
| 275 | 9:27 PM |  | Nov 8, 2010 | Pointing50ut this obvious i |
|  | Nov 8, 2010 | 298 | 9:46 PM | has fallen on deaf ears. |
| 276 | 9:27 PM |  | Nov 8, 2010 | 5 |
|  | Nov 8, 2010 | 299 | 9:47 PM |  |
| 277 | 9:27 PM |  | Nov 8, 2010 | 6 |
|  | Nov 8, 2010 | 300 | 9:47 PM |  |
| 278 | 9:28 PM |  | Nov 8, 2010 | 25 |
|  | Nov 8, 2010 | 301 | 9:47 PM |  |
| 279 | 9:28 PM |  | Nov 8, 2010 | 3 |
|  | Nov 8, 2010 | 302 | 9:47 PM |  |
| 280 | 9:30 PM |  | Nov 8, 2010 | 8 |
|  | Nov 8, 2010 | 303 | 9:49 PM |  |
| 281 | 9:30 PM |  | Nov 8, 2010 | 12 |
|  | Nov 8, 2010 | 304 | 9:49 PM |  |
| 282 | 9:31 PM |  | Nov 8, 2010 | 5.5 |
|  | Nov 8, 2010 | 305 | 9:50 PM |  |
| 283 | 9:32 PM |  | Nov 8, 2010 | 10.5 |
|  | Nov 8, 2010 | 306 | 9:50 PM |  |
| 284 | 9:32 PM |  | Nov 8, 2010 | 14 |
|  | Nov 8, 2010 | 307 | 9:50 PM |  |
| 285 | 9:33 PM |  | Nov 8, 2010 | 3 |
|  | Nov 8, 2010 | 308 | 9:51 PM | 5 miles |
| 286 | 9:33 PM |  | Nov 8, 2010 | 10 |
|  | Nov 8, 2010 | 309 | 9:52 PM |  |
| 287 | 9:35 PM |  | Nov 8, 2010 | 10 |
|  | Nov 8, 2010 | 310 | 9:57 PM |  |
| 288 | 9:35 PM |  | Nov 8, 2010 | 13 |
|  | Nov 8, 2010 | 311 | 9:58 PM |  |
| 289 | 9:37 PM | 312 | Nov 8, 2010 | 4 |

10:00 PM
Nov 8, 2010 10:02 PM
Nov 8, 2010 10:02 PM
Nov 8, 2010 10:02 PM
Nov 8, 2010 10:06 PM
Nov 8, 2010 10:06 PM
Nov 8, 2010 10:06 PM
Nov 8, 2010 10:12 PM
Nov 8, 2010 10:13 PM
Nov 8, 2010 10:14 PM
Nov 8, 2010 10:15 PM
Nov 8, 2010 10:15 PM
Nov 8, 2010 10:18 PM
Nov 8, 2010 10:18 PM
Nov 8, 2010 10:21 PM
Nov 8, 2010 10:27 PM
Nov 8, 2010 10:28 PM
Nov 8, 2010 10:33 PM
Nov 8, 2010 10:34 PM
Nov 8, 2010 10:35 PM
Nov 8, 2010 10:35 PM
Nov 8, 2010 10:35 PM
Nov 8, 2010 10:36 PM
Nov 8, 2010 10:46 PM
Nov 8, 2010 11:16 PM
Nov 8, 2010 11:18 PM
Nov 8, 2010 11:22 PM
Nov 8, 2010 11:25 PM
Nov 8, 2010 11:33 PM


|  | 12:32 PM |  |  | Nov 9, 2010 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nov 9, 2010 |  | 397 | 1:31 PM |  |
| 370 | 12:35 PM |  |  | Nov 9, 2010 | 7 |
|  | Nov 9, 2010 |  | 398 | 1:31 PM | 6 blocks |
| 371 | 12:38 PM |  |  | Nov 9, 2010 | 12 |
|  | Nov 9, 2010 |  | 399 | 1:32 PM | 8 miles |
| 372 | 12:39 PM |  |  | Nov 9, 2010 | 12 |
|  | Nov 9, 2010 |  | 400 | 1:32 PM |  |
| 373 | 12:43 PM |  |  | Nov 9, 2010 | 6 |
|  | Nov 9, 2010 |  | 401 | 1:38 PM |  |
| 374 | 12:45 PM | If I go East it's 14 |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 402 | 1:39 PM |  |
| 375 | 12:48 PM |  |  | Nov 9, 2010 | 10 |
|  | Nov 9, 2010 |  | 403 | 1:40 PM |  |
| 376 | 12:49 PM |  |  | Nov 9, 2010 | 7.5 |
|  | Nov 9, 2010 |  | 404 | 1:42 PM |  |
| 377 | 12:54 PM | 15 miles one way |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 405 | 1:43 PM |  |
| 378 | 12:57 PM |  |  | Nov 9, 2010 | 5 |
|  | Nov 9, 2010 |  | 406 | 1:44 PM |  |
| 379 | 12:59 PM |  |  | Nov 9, 2010 | 45 |
|  | Nov 9, 2010 |  | 407 | 1:45 PM |  |
| 380 | 12:59 PM |  |  | Nov 9, 2010 | 7 |
|  | Nov 9, 2010 |  | 408 | 1:46 PM |  |
| 381 | 1:06 PM |  |  | Nov 9, 2010 | 0 |
|  | Nov 9, 2010 |  | 409 | 1:47 PM |  |
| 382 | 1:07 PM |  |  | Nov 9, 2010 | 6 |
|  | Nov 9, 2010 |  | 410 | 1:47 PM |  |
| 383 | 1:08 PM |  |  | Nov 9, 2010 | 7 |
|  |  | 35 one way | 411 | 1:49 PM |  |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 384 | 1:08 PM | 70 miles round tri | 412 | 1:54 PM |  |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 385 | 1:09 PM |  | 413 | 1:56 PM | 4 |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 386 | 1:10 PM |  | 414 | 1:59 PM | 5.5 |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 387 | 1:11 PM |  | 415 | 2:02 PM | 12 |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 388 | 1:14 PM |  | 416 | 2:03 PM | 6 |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 389 | 1:14 PM |  | 417 | 2:04 PM | 6 |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 390 | 1:15 PM | 10 miles | 418 | 2:05 PM |  |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 391 | 1:21 PM |  | 419 | 2:06 PM | 49.5 |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 392 | 1:22 PM |  | 420 | 2:06 PM | 10 |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 393 | 1:22 PM |  | 421 | 2:07 PM | 30 |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 394 | 1:25 PM |  | 422 | 2:08 PM | 9.5 mile |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 395 | 1:25 PM |  | 423 | 2:11 PM | 7 |
|  | Nov 9, 2010 |  |  | Nov 9, 2010 |  |
| 396 | 1:28 PM | 50 miles round tri | 424 | 2:11 PM |  |
|  |  |  | 425 | Nov 9, 2010 |  |


|  | 2:13 PM |  |  | Nov 9, 2010 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nov 9, 2010 |  | 454 | 3:42 PM |  |
| 426 | 2:13 PM |  |  | Nov 9, 2010 | 40 |
|  | Nov 9, 2010 |  | 455 | 3:46 PM |  |
| 427 | 2:14 PM |  |  | Nov 9, 2010 | 12 |
|  | Nov 9, 2010 |  | 456 | 3:49 PM |  |
| 428 | 2:15 PM |  |  | Nov 9, 2010 | 10 |
|  | Nov 9, 2010 |  | 457 | 4:01 PM |  |
| 429 | 2:20 PM |  |  | Nov 9, 2010 | 7 |
|  | Nov 9, 2010 |  | 458 | 4:05 PM |  |
| 430 | 2:22 PM | 9 miles |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 459 | 4:10 PM |  |
| 431 | 2:28 PM | Seven |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 460 | 4:11 PM |  |
| 432 | 2:29 PM |  |  | Nov 9, 2010 | 2.5 |
|  | Nov 9, 2010 |  | 461 | 4:14 PM |  |
| 433 | 2:30 PM |  |  | Nov 9, 2010 | 12 |
|  | Nov 9, 2010 |  | 462 | 4:31 PM |  |
| 434 | 2:36 PM | 11 miles |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 463 | 4:39 PM |  |
| 435 | 2:42 PM |  |  | Nov 9, 2010 | 16 |
|  | Nov 9, 2010 |  | 464 | 4:40 PM |  |
| 436 | 2:43 PM |  |  | Nov 9, 2010 | 11 |
|  | Nov 9, 2010 |  | 465 | 4:41 PM |  |
| 437 | 2:43 PM |  |  | Nov 9, 2010 | 2 |
|  | Nov 9, 2010 |  | 466 | 4:43 PM | 2.0 miles |
| 438 | 2:43 PM |  |  | Nov 9, 2010 | 10 |
|  | Nov 9, 2010 |  | 467 | 4:48 PM | three |
| 439 | 2:48 PM | 5.5 miles |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 468 | 4:49 PM |  |
| 440 | 2:53 PM | 11 miles. |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 469 | 4:56 PM |  |
| 441 | 2:59 PM | 8.5 miles |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 470 | 4:59 PM | 5 miles |
| 442 | 3:05 PM | one half mile |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 471 | 5:00 PM |  |
| 443 | 3:17 PM |  |  | Nov 9, 2010 | 8 |
|  | Nov 9, 2010 |  | 472 | 5:03 PM |  |
| 444 | 3:20 PM |  |  | Nov 9, 2010 | 5 |
|  | Nov 9, 2010 |  | 473 | 5:03 PM | 31/2 |
| 445 | 3:20 PM | 4.5 MI |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 474 | 5:17 PM |  |
| 446 | 3:24 PM |  |  | Nov 9, 2010 | 23 |
|  | Nov 9, 2010 |  | 475 | 5:22 PM |  |
| 447 | 3:25 PM |  |  | Nov 9, 2010 | 7 |
|  | Nov 9, 2010 |  | 476 | 5:23 PM |  |
| 448 | 3:26 PM |  |  | Nov 9, 2010 | 22 |
|  | Nov 9, 2010 |  | 477 | 5:23 PM | 12 miles |
| 449 | 3:26 PM |  |  | Nov 9, 2010 | 25 |
|  | Nov 9, 2010 |  | 478 | 5:32 PM |  |
| 450 | 3:30 PM |  |  | Nov 9, 2010 | 30 |
|  | Nov 9, 2010 |  | 479 | 5:34 PM |  |
| 451 | 3:33 PM |  |  | Nov 9, 2010 | 10 |
|  | Nov 9, 2010 |  | 480 | 5:38 PM |  |
| 452 | 3:35 PM | 6 miles |  | Nov 9, 2010 |  |
|  | Nov 9, 2010 |  | 481 | 5:42 PM |  |
| 453 | 3:36 PM |  | 482 | Nov 9, 2010 | 2 |


|  | 5:43 PM |  |  | Nov 9, 2010 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nov 9, 2010 |  | 511 | 10:24 PM |  |
| 483 | 5:55 PM |  |  | Nov 9, 2010 | 9 |
|  | Nov 9, 2010 |  | 512 | 10:58 PM |  |
| 484 | 6:00 PM |  |  | Nov 10, | 10 |
|  | Nov 9, 2010 |  |  | 2010 1:03 |  |
| 485 | 6:09 PM |  | 513 | AM | 17.5 |
|  | Nov 9, 2010 |  |  | Nov 10, |  |
| 486 | 6:24 PM |  |  | 2010 1:12 | 6 |
|  | Nov 9, 2010 |  | 514 | AM |  |
| 487 | 6:38 PM | 4 miles |  | Nov 10, |  |
|  | Nov 9, 2010 |  |  | 2010 1:58 |  |
| 488 | 6:53 PM |  | 515 | AM | 8 |
|  | Nov 9, 2010 |  |  | Nov 10, |  |
| 489 | 6:55 PM |  |  | 2010 2:50 | 2.5 |
|  | Nov 9, 2010 |  | 516 | AM |  |
| 490 | 7:09 PM | 35 miles |  | Nov 10, |  |
|  | Nov 9, 2010 |  |  | 2010 12:00 |  |
| 491 | 8:11 PM |  | 517 | PM | 7 mi 27 |
|  | Nov 9, 2010 |  |  | Nov 10, |  |
| 492 | 8:33 PM | 1/2 MILE |  | 2010 1:23 |  |
|  | Nov 9, 2010 |  | 518 | PM |  |
| 493 | 8:35 PM | 1.5 miles |  | Nov 10, |  |
|  | Nov 9, 2010 |  |  | 2010 1:48 |  |
| 494 | 8:48 PM |  | 519 | PM | 25 |
|  | Nov 9, 2010 |  |  | Nov 10, |  |
| 495 | 8:53 PM |  |  | 2010 1:54 | 2 |
|  | Nov 9, 2010 |  | 520 | PM |  |
| 496 | 9:02 PM |  |  | Nov 10, | 19 |
|  | Nov 9, 2010 |  |  | 2010 2:00 |  |
| 497 | 9:13 PM |  | 521 | PM | 46 |
|  | Nov 9, 2010 |  |  | Nov 10, |  |
| 498 | 9:14 PM |  |  | 2010 2:08 | 32 |
|  | Nov 9, 2010 |  | 522 | PM |  |
| 499 | 9:17 PM |  |  | Nov 10, | 10 |
|  | Nov 9, 2010 |  |  | 2010 2:26 |  |
| 500 | 9:21 PM |  | 523 | PM | 30 |
|  | Nov 9, 2010 |  |  | Nov 10, |  |
| 501 | 9:22 PM |  |  | 2010 2:31 | 15 |
|  | Nov 9, 2010 |  | 524 | PM | 23 miles |
| 502 | 9:24 PM |  |  | Nov 10, | 6.5 |
|  | Nov 9, 2010 |  |  | 2010 2:34 |  |
| 503 | 9:31 PM |  | 525 | PM | 12 |
|  | Nov 9, 2010 |  |  | Nov 10, |  |
| 504 | 9:37 PM |  |  | 2010 2:45 | 3 |
|  | Nov 9, 2010 |  | 526 | PM |  |
| 505 | 9:41 PM |  |  | Nov 10, | 3.5 |
|  | Nov 9, 2010 |  |  | 2010 2:46 |  |
| 506 | 9:48 PM |  | 527 | PM | 32 miles2roundtrip |
|  | Nov 9, 2010 |  |  | Nov 10, |  |
| 507 | 9:54 PM |  |  | 2010 2:51 | 15 |
|  | Nov 9, 2010 |  | 528 | PM | 5 miles |
| 508 | 9:59 PM |  |  | Nov 10, | 23 |
|  | Nov 9, 2010 |  |  | 2010 3:23 |  |
| 509 | 10:12 PM |  | 529 | PM | 23 |
|  | Nov 9, 2010 |  |  | Nov 10, |  |
| 510 | 10:12 PM | 15 miles | 530 | 2010 4:53 |  |



|  | PM |  |  | PM |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} \text { Nov 14, } \\ 2010 \text { 11:42 } \end{array}$ |  |  | $\begin{array}{r} \text { Nov 16, } \\ 20105: 12 \end{array}$ |  |
| 569 | $\begin{array}{r} \text { PM } \\ \text { Nov 15, } \\ 20101: 10 \end{array}$ |  | 588 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 12 \end{array}$ | 1 |
| 570 | $\begin{array}{r} \text { PM } \\ \text { Nov 15, } \\ 20102: 17 \end{array}$ |  | 589 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 12 \end{array}$ | 7 |
| 571 | $\begin{array}{r} \text { PM } \\ \text { Nov 15, } \\ 20103: 13 \end{array}$ | 5 miles | 590 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 12 \end{array}$ |  |
| 572 | $\begin{array}{r} \text { PM } \\ \text { Nov 15, } \\ 20104: 46 \end{array}$ |  | 591 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 12 \end{array}$ | 5 |
| 573 | $\begin{array}{r} \text { PM } \\ \text { Nov 15, } \\ 201010: 15 \end{array}$ |  | 592 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 13 \end{array}$ | 3 |
| 574 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 09 \end{array}$ |  | 593 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 14 \end{array}$ | 6 |
| 575 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 10 \end{array}$ |  | 594 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 14 \end{array}$ | 25 |
| 576 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 10 \end{array}$ |  | 595 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 14 \end{array}$ | About 54niles. |
| 577 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 10 \end{array}$ |  | 596 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 14 \end{array}$ | 12 |
| 578 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 10 \end{array}$ | 1/2 mile | 597 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 15 \end{array}$ | 8 on one day, 15 on range |
| 579 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 10 \end{array}$ |  | 598 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 16 \end{array}$ | downtown |
| 580 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 10 \end{array}$ |  | 599 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 17 \end{array}$ | 8 |
| 581 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 10 \end{array}$ | $161 / 2$ | 600 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 17 \end{array}$ |  |
| 582 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 11 \end{array}$ |  | 601 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 18 \end{array}$ | 10 |
| 583 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 11 \end{array}$ |  | 602 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 18 \end{array}$ | 0 |
| 584 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 11 \end{array}$ |  | 603 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 18 \end{array}$ | 42 |
| 585 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 12 \end{array}$ |  | 604 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 18 \end{array}$ | 12 |
| 586 587 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 12 \end{array}$ | 12.0 miles | 605 606 | $\begin{array}{r} \text { PM } \\ \text { Nov 16, } \\ 20105: 19 \end{array}$ | 12 |


|  | PM |  |  | PM |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nov 16, 2010 5:19 |  |  | $\begin{array}{r} \text { Nov 16, } \\ 20106: 06 \end{array}$ |  |
| 607 | PM |  | 626 | PM | 15 |
|  | $\begin{gathered} \text { Nov 16, } \\ 20105 \cdot 02 \end{gathered}$ |  |  | Nov 16, |  |
| 608 | PM |  | 627 | PM | 15 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:27 |  |  | 2010 6:08 |  |
| 609 | PM |  | 628 | PM | 10 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:28 |  |  | 2010 6:12 |  |
| 610 | PM |  | 629 | PM | 5.5 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:29 |  |  | 2010 6:18 |  |
| 611 | PM | 8 miles. | 630 | PM |  |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:31 |  |  | 2010 6:20 |  |
| 612 | PM |  | 631 | PM | 20 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:33 |  |  | 2010 6:35 |  |
| 613 | PM |  | 632 | PM | 16 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:34 |  |  | 2010 6:36 |  |
| 614 | PM |  | 633 | PM | 5 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:36 |  |  | 2010 6:38 |  |
| 615 | PM |  | 634 | PM | 13 miles5 |
|  | $\begin{gathered} \text { Nov 16, } \\ 20105: 38 \end{gathered}$ |  |  | Nov 16, |  |
| 616 | PM |  | 635 | PM | 2 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:39 |  |  | 2010 6:40 |  |
| 617 | PM |  | 636 | PM | 7.1 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:40 |  |  | 2010 6:42 |  |
| 618 | PM |  | 637 | PM | 16 Miles5 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:44 |  |  | 2010 6:47 |  |
| 619 | PM |  | 638 | PM | 10 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:45 |  |  | 2010 6:59 |  |
| 620 | PM |  | 639 | PM |  |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:45 |  |  | 2010 7:15 |  |
| 621 | PM |  | 640 | PM | 13.8 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:52 |  |  | 2010 7:16 |  |
| 622 |  | 15 miles | 641 | PM |  |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:52 |  |  | 2010 7:20 |  |
| 623 | PM |  | 642 | PM | 25 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 5:56 |  |  | 2010 7:22 |  |
| 624 | PM |  | 643 | PM | 8 |
|  | Nov 16, |  |  | Nov 16, |  |
| 625 | 2010 6:04 |  | 644 | 2010 7:23 | 14 |


|  | PM |  |  | PM |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} \text { Nov 16, } \\ 20107: 33 \end{array}$ |  |  | $\begin{array}{r} \text { Nov 16, } \\ 2010 \text { 10:34 } \end{array}$ |  |
| 645 | PM |  | 664 | PM | 4 |
|  | $\begin{array}{r} \text { Nov 16, } \\ 20107: 49 \end{array}$ |  |  | $\begin{array}{r} \text { Nov 16, } \\ 2010 \text { 10:36 } \end{array}$ |  |
| 646 | PM |  | 665 | PM | 10 |
|  | Nov 16, |  |  | Nov 16, |  |
|  | 2010 7:54 |  |  | 2010 10:42 |  |
| 647 | PM |  | 666 | PM | 6.5 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 8:05 |  |  | 2010 1:57 |  |
| 648 | PM |  | 667 | AM | 5 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 8:13 |  |  | 2010 2:34 |  |
| 649 | PM |  | 668 | AM | 50 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 8:14 |  |  | 2010 12:42 |  |
| 650 | PM | approx 10 | 669 | PM |  |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 8:15 |  |  | 2010 12:54 |  |
| 651 | PM |  | 670 | PM | 22 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 8:22 |  |  | 2010 12:56 |  |
| 652 | PM |  | 671 | PM | 2.5 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 8:28 |  |  | 2010 1:00 |  |
| 653 | PM | 12 miles | 672 | PM |  |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 8:43 |  |  | 2010 1:13 |  |
| 654 | PM |  | 673 | PM | 10 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 8:50 |  |  | 2010 1:24 |  |
| 655 | PM |  | 674 | PM | 8 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 8:52 |  |  | 2010 1:38 |  |
| 656 | PM |  | 675 | PM | 32 mile2\% |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 8:57 |  |  | 2010 1:50 |  |
| 657 | PM |  | 676 | PM | 1 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 9:14 |  |  | 2010 2:02 |  |
| 658 | PM |  | 677 | PM | 22 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 9:30 |  |  | 2010 3:27 |  |
| 659 | PM |  | 678 | PM | 6 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 9:33 |  |  | 2010 3:29 |  |
| 660 | PM |  | 679 | PM | 8 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 9:55 |  |  | 2010 3:56 |  |
| 661 | PM |  | 680 | PM | 4 |
|  | Nov 16, |  |  | Nov 17, |  |
|  | 2010 10:01 |  |  | 2010 4:59 |  |
| 662 | PM |  | 681 | PM | 6 |
|  | Nov 16, |  |  | Nov 17, |  |
| 663 | 2010 10:04 |  | 682 | 2010 5:38 | 3 |



How many days per week do you commute to work?

| Answer Options | Respons <br> $\mathbf{e}$ | Respons <br> $\mathbf{e}$ Count |
| :--- | :---: | :---: |
| 0 | $5.3 \%$ | 37 |
| 1 | $0.0 \%$ | 0 |
| 2 | $1.8 \%$ | 13 |
| 3 | $3.4 \%$ | 24 |
| 4 | $8.1 \%$ | 57 |
| 5 | $77.4 \%$ | 545 |
| 6 | $4.0 \%$ | 28 |
| 7 | $0.0 \%$ | 0 |
|  | answered question | 704 |
|  | skipped question | 3 |

Do you ever drive to work?

|  | Respons |
| :--- | :---: |
| Answer Options | $\mathbf{e}$ |
| yes | Percent |
| no | $90.2 \%$ |
| answered question 702 | $9.8 \%$ |
| skipped question 2 |  |

Do you combine your commute with bringing a spouse to work, dropping a child off at school, or other errands?

| Answer Options | Response Percent | Response Count |  |
| :--- | :---: | :---: | ---: |
| Yes | $40.2 \%$ | 249 |  |
| No | $59.8 \%$ | 370 |  |
|  | answered question |  | 619 |
|  | skipped question |  | 88 |

How many days per week do you drive to work?

| Answer Options | Response <br> Percent | Response <br> Count |
| :--- | :---: | :---: |
| 0 | $6.3 \%$ | 39 |
| 1 | $8.0 \%$ | 49 |
| 2 | $4.6 \%$ | 28 |
| 3 | $5.0 \%$ | 31 |
| 4 | $9.3 \%$ | 57 |
| 5 | $62.6 \%$ | 385 |
| 6 | $4.1 \%$ | 25 |
| 7 | $0.2 \%$ | 1 |
|  | answered question | 615 |
|  | skipped question | 92 |



How many miles do you drive to get to and from work?(Please include total commute miles from question 4)

## 609 answered question <br> 98 skipped question

Number

1
2

Respo
Date
Nov 8, 2010 8:33 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
Nov 8, 2010 8:34 PM
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Nov 8, 2010 8:35 PM Nov 8, 2010 8:35 PM
Nov 8, 2010 8:35 PM

Response Text

Nov 8, 2010 8:35 PM
Nov 8, 2010 8:35 PM
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Nov 8, 2010 8:35 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
Nov 8, 2010 8:36 PM
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Nov 8, 2010 8:36 PM
Nov 8, 2010 8:37 PM
Nov 8, 2010 8:37 PM
Nov 8, 2010 8:37 PM
Nov 8, 2010 8:37 PM
Nov 8, 2010 8:37 PM
Nov 8, 2010 8:37 PM

30 TO, 30 FROM, TO | B̂ |
| :---: | 60

| 8:37 PM |  |  |
| :---: | :---: | :---: |
|  | Nov 8, 2010 | approx 12 miles round trip |
| 57 | 8:37 PM |  |
|  | Nov 8, 2010 |  |
| 58 | 8:37 PM |  |
|  | Nov 8, 2010 |  |
| 59 | 8:37 PM |  |
|  | Nov 8, 2010 |  |
| 60 | 8:38 PM | 5 - I drive maybe three times 12 miles round trip when driv |
|  | Nov 8, 2010 |  |
| 61 | 8:38 PM | When I drive, varies. Maybe |
|  | Nov 8, 2010 |  |
| 62 | 8:38 PM |  |
|  | Nov 8, 2010 |  |
| 63 | 8:38 PM |  |
|  | Nov 8, 2010 |  |
| 64 | 8:38 PM |  |
|  | Nov 8, 2010 |  |
| 65 | 8:38 PM |  |
|  | Nov 8, 2010 |  |
| 66 | 8:38 PM |  |
|  | Nov 8, 2010 |  |
| 67 | 8:38 PM |  |
|  | Nov 8, 2010 |  |
| 68 | 8:38 PM |  |
|  | Nov 8, 2010 |  |
| 69 | 8:38 PM |  |
|  | Nov 8, 2010 |  |
| 70 | 8:39 PM |  |
|  | Nov 8, 2010 |  |
| 71 | 8:39 PM |  |
|  | Nov 8, 2010 |  |
| 72 | 8:39 PM | I drive 6 mile to work then tak |
|  | Nov 8, 2010 |  |
| 73 | 8:40 PM | 36 miles |
|  | Nov 8, 2010 |  |
| 74 | 8:40 PM |  |
|  | Nov 8, 2010 |  |
| 75 | 8:40 PM | 15 miles |
|  | Nov 8, 2010 |  |
| 76 | 8:40 PM |  |
|  | Nov 8, 2010 |  |
| 77 | 8:40 PM |  |
|  | Nov 8, 2010 |  |
| 78 | 8:41 PM | 60 miles |
|  | Nov 8, 2010 |  |
| 79 | 8:41 PM |  |
|  | Nov 8, 2010 |  |
| 80 | 8:41 PM |  |
|  | Nov 8, 2010 |  |
| 81 | 8:41 PM |  |
|  | Nov 8, 2010 |  |
| 82 | 8:41 PM |  |
|  | Nov 8, 2010 |  |
| 83 | 8:41 PM |  |


|  | 8:46 PM |  |
| :---: | :---: | :---: |
|  | Nov 8, 2010 |  |
| 113 | 8:46 PM |  |
|  | Nov 8, 2010 |  |
| 114 | 8:46 PM |  |
|  | Nov 8, 2010 |  |
| 115 | 8:48 PM |  |
|  |  | 16 but I'm an inspector \& use |
|  | Nov 8, 2010 |  |
| 116 | 8:48 PM | 16 miles commute +30 per d |
| 117 | 8:48 PM |  |
|  | Nov 8, 2010 |  |
| 118 | 8:49 PM |  |
|  | Nov 8, 2010 |  |
| 119 | 8:49 PM | 22 miles |
|  | Nov 8, 2010 |  |
| 120 | 8:49 PM | 40 miles round-trip |
|  | Nov 8, 2010 |  |
| 121 | 8:49 PM |  |
|  | Nov 8, 2010 |  |
| 122 | 8:50 PM |  |
|  | Nov 8, 2010 |  |
| 123 | 8:50 PM |  |
|  | Nov 8, 2010 |  |
| 124 | 8:50 PM |  |
|  | Nov 8, 2010 |  |
| 125 | 8:50 PM |  |
|  | Nov 8, 2010 |  |
| 126 | 8:50 PM |  |
|  | Nov 8, 2010 |  |
| 127 | 8:50 PM |  |
|  | Nov 8, 2010 |  |
| 128 | 8:50 PM |  |
|  | Nov 8, 2010 |  |
| 129 | 8:51 PM |  |
|  | Nov 8, 2010 |  |
| 130 | 8:51 PM |  |
|  | Nov 8, 2010 |  |
| 131 | 8:51 PM |  |
|  | Nov 8, 2010 |  |
| 132 | 8:52 PM | 10-I rarely drive my vehicle |
|  | Nov 8, 2010 |  |
| 133 | 8:52 PM | 10 (drive to bus stop) |
|  | Nov 8, 2010 |  |
| 134 | 8:52 PM |  |
|  | Nov 8, 2010 |  |
| 135 | 8:52 PM |  |
|  | Nov 8, 2010 |  |
| 136 | 8:52 PM |  |
|  | Nov 8, 2010 |  |
| 137 | 8:52 PM |  |
|  | Nov 8, 2010 |  |
| 138 | 8:52 PM |  |
|  | Nov 8, 2010 |  |
| 139 | 8:53 PM |  |

Nov 8, 2010 8:53 PM
Nov 8, 2010 8:53 PM
Nov 8, 2010 8:53 PM
Nov 8, 2010 8:53 PM
Nov 8, 2010 8:53 PM ;
Nov 8, 2010 8:54 PM
Nov 8, 2010 8:54 PM
Nov 8, 2010 8:54 PM
Nov 8, 2010 8:55 PM
Nov 8, 2010 8:55 PM
Nov 8, 2010 8:55 PM
Nov 8, 2010 8:55 PM
Nov 8, 2010 8:56 PM
Nov 8, 2010 8:56 PM
Nov 8, 2010 8:56 PM
Nov 8, 2010 8:57 PM
Nov 8, 2010 8:58 PM
Nov 8, 2010 8:58 PM
Nov 8, 2010 8:58 PM
Nov 8, 2010 8:59 PM
Nov 8, 2010 9:00 PM ionth.
Nov 8, 2010 9:00 PM
Nov 8, 2010 9:01 PM
Nov 8, 2010 9:01 PM
Nov 8, 2010 9:01 PM

Depends on the errand,5l only drive
13
Nov 8, 2010 9:02 PM
Nov 8, 2010 9:02 PM
Nov 8, 2010 9:02 PM
about 14 total, round trip
28
16

19 each way

4
75
58

| 9:02 PM |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Nov 8, 2010 |  | 197 |
| 169 | 9:02 PM | 45 miles |  |
|  | Nov 8, 2010 |  | 198 |
| 170 | 9:02 PM |  |  |
|  | Nov 8, 2010 |  | 199 |
| 171 | 9:03 PM |  |  |
|  | Nov 8, 2010 |  | 200 |
| 172 | 9:03 PM |  |  |
|  | Nov 8, 2010 |  | 201 |
| 173 | 9:03 PM |  |  |
|  | Nov 8, 2010 |  | 202 |
| 174 | 9:04 PM |  |  |
|  | Nov 8, 2010 |  | 203 |
| 175 | 9:04 PM |  |  |
|  | Nov 8, 2010 |  | 204 |
| 176 | 9:04 PM |  |  |
|  | Nov 8, 2010 |  | 205 |
| 177 | 9:04 PM |  |  |
|  | Nov 8, 2010 | I live 15 miles from work. As | 206 |
| 178 | 9:05 PM | as well. |  |
|  | Nov 8, 2010 |  | 207 |
| 179 | 9:05 PM |  |  |
|  | Nov 8, 2010 |  | 208 |
| 180 | 9:05 PM |  |  |
|  | Nov 8, 2010 |  | 209 |
| 181 | 9:06 PM |  |  |
|  | Nov 8, 2010 |  | 210 |
| 182 | 9:06 PM |  |  |
|  | Nov 8, 2010 |  | 211 |
| 183 | 9:06 PM |  |  |
|  | Nov 8, 2010 |  | 212 |
| 184 | 9:06 PM |  |  |
|  | Nov 8, 2010 |  | 213 |
| 185 | 9:07 PM |  |  |
|  | Nov 8, 2010 |  | 214 |
| 186 | 9:07 PM |  |  |
|  | Nov 8, 2010 |  | 215 |
| 187 | 9:08 PM |  |  |
|  | Nov 8, 2010 |  | 216 |
| 188 | 9:08 PM |  |  |
|  | Nov 8, 2010 |  | 217 |
| 189 | 9:08 PM |  |  |
|  | Nov 8, 2010 |  | 218 |
| 190 | 9:09 PM |  |  |
|  | Nov 8, 2010 |  | 219 |
| 191 | 9:10 PM |  |  |
|  | Nov 8, 2010 |  | 220 |
| 192 | 9:10 PM |  |  |
|  | Nov 8, 2010 |  | 221 |
| 193 | 9:10 PM |  |  |
|  | Nov 8, 2010 |  | 222 |
| 194 | 9:10 PM |  |  |
|  | Nov 8, 2010 |  | 223 |
| 19 | 9:11 PM |  |  |
|  | Nov 8, 2010 |  | 224 |
|  | 9:11 PM |  | 225 |

Nov 8, 2010 9:11 PM

Nov 8, 2010 9:12 PM
Nov 8, 2010 9:12 PM
Nov 8, 2010 9:12 PM
Nov 8, 2010 9:12 PM
Nov 8, 2010 9:12 PM
Nov 8, 2010 9:13 PM
Nov 8, 2010 9:13 PM
Nov 8, 2010 9:13 PM
Nov 8, 2010
~10 (I only drive once per month on
immediately after work, etc.)
8
1.2

20 roundtrip
14

50 mile a week 9:13 PM $d$ to travel during the day
Nov 8, 2010 9:14 PM
Nov 8, 2010 9:14 PM
Nov 8, 2010 9:14 PM
Nov 8, 2010 9:15 PM
Nov 8, 2010 9:15 PM
Nov 8, 2010 9:15 PM
Nov 8, 2010 9:16 PM
Nov 8, 2010
50 miles 9:17 PM
Nov 8, 2010 9:17 PM
Nov 8, 2010 9:20 PM
Nov 8, 2010 9:21 PM
Nov 8, 2010 9:22 PM
Nov 8, 2010 9:23 PM
Nov 8, 2010 9:25 PM
Nov 8, 2010 9:26 PM
Nov 8, 2010 9:27 PM
Nov 8, 2010 9:29 PM
Nov 8, 2010 9:30 PM
Nov 8, 2010

| 9:31 PM |  |  | 253 |
| :---: | :---: | :---: | :---: |
| 226 | Nov 8, 2010 |  |  |
|  | 9:31 PM |  |  |
|  | Nov 8, 2010 |  | 254 |
| 227 | 9:32 PM |  |  |
|  | Nov 8, 2010 |  | 255 |
| 228 | 9:34 PM |  |  |
|  | Nov 8, 2010 |  | 256 |
| 229 | 9:34 PM |  |  |
|  | Nov 8, 2010 |  | 257 |
| 230 | 9:36 PM |  |  |
|  | Nov 8, 2010 |  | 258 |
| 231 | 9:37 PM |  |  |
|  | Nov 8, 2010 |  | 259 |
| 232 | 9:38 PM | 4 each way, 8 total |  |
|  | Nov 8, 2010 |  | 260 |
| 233 | 9:38 PM |  |  |
|  | Nov 8, 2010 |  | 261 |
| 234 | 9:39 PM |  |  |
|  | Nov 8, 2010 |  | 262 |
| 235 | 9:40 PM |  |  |
|  | Nov 8, 2010 |  | 263 |
| 236 | 9:41 PM |  |  |
|  | Nov 8, 2010 |  | 264 |
| 237 | 9:44 PM |  |  |
|  | Nov 8, 2010 |  | 265 |
| 238 | 9:47 PM |  |  |
|  | Nov 8, 2010 |  | 266 |
| 239 | 9:47 PM |  |  |
|  | Nov 8, 2010 |  | 267 |
| 240 | 9:47 PM |  |  |
|  | Nov 8, 2010 |  | 268 |
| 241 | 9:48 PM |  |  |
|  | Nov 8, 2010 |  | 269 |
| 242 | 9:48 PM |  |  |
|  | Nov 8, 2010 | Current round trip commute $=$ | 270 |
| 243 | 9:49 PM | Starting in December round t | 271 |
|  | Nov 8, 2010 |  |  |
| 244 | 9:50 PM |  | 272 |
|  | Nov 8, 2010 |  |  |
| 245 | 9:50 PM |  | 273 |
|  | Nov 8, 2010 |  |  |
| 246 | 9:50 PM |  | 274 |
|  | Nov 8, 2010 |  |  |
| 247 | 9:51 PM |  | 275 |
|  | Nov 8, 2010 |  |  |
| 248 | 9:52 PM |  | 276 |
|  | Nov 8, 2010 |  |  |
| 249 | 9:53 PM |  | 277 |
|  | Nov 8, 2010 |  |  |
| 250 | 9:57 PM |  | 278 |
|  | Nov 8, 2010 |  |  |
| 251 | 9:58 PM | Varies as does the number o | 279 |
|  | Nov 8, 2010 |  |  |
| 252 | 9:58 PM |  | 280 |
|  |  |  | 281 |

Nov 8, 2010 10:01 PM
Nov 8, 2010 10:02 PM
Nov 8, 2010 10:03 PM
Nov 8, 2010 10:03 PM
Nov 8, 2010 10:03 PM
Nov 8, 2010 10:06 PM
Nov 8, 2010 10:07 PM
Nov 8, 2010 10:07 PM
Nov 8, 2010 10:14 PM
Nov 8, 2010 10:15 PM
Nov 8, 2010 10:15 PM
Nov 8, 2010 10:16 PM
Nov 8, 2010 10:16 PM
Nov 8, 2010 10:18 PM
Nov 8, 2010 10:28 PM
Nov 8, 2010 10:30 PM
Nov 8, 2010 10:33 PM
Nov 8, 2010 10:35 PM tate 94. .
Nov 8, 2010 10:36 PM / along south beltline.
Nov 8, 2010 10:36 PM
Nov 8, 2010 10:37 PM
Nov 8, 2010 10:41 PM
Nov 8, 2010 10:47 PM
Nov 8, 2010 11:17 PM
Nov 8, 2010 11:19 PM
Nov 8, 2010 11:22 PM
Nov 8, 2010 11:26 PM
Nov 8, 2010 11:34 PM

16

| 11:44 PM |  | Half mile | 310 |
| :---: | :---: | :---: | :---: |
| 282 | Nov 9, 2010 |  |  |
|  | 12:04 AM |  |  |
|  | Nov 9, 2010 |  | 311 |
| 283 | 12:07 AM |  |  |
|  | Nov 9, 2010 |  | 312 |
| 284 | 12:16 AM |  |  |
|  | Nov 9, 2010 |  | 313 |
| 285 | 12:17 AM |  |  |
|  | Nov 9, 2010 |  | 314 |
| 286 | 12:38 AM |  |  |
|  | Nov 9, 2010 |  | 315 |
| 287 | 12:55 AM |  |  |
|  | Nov 9, 2010 |  | 316 |
| 288 | 1:09 AM |  |  |
|  | Nov 9, 2010 |  | 317 |
| 289 | 1:27 AM |  |  |
|  | Nov 9, 2010 |  | 318 |
| 290 | 1:38 AM |  |  |
|  | Nov 9, 2010 |  | 319 |
| 291 | 1:40 AM |  |  |
|  | Nov 9, 2010 |  | 320 |
| 292 | 1:50 AM |  |  |
|  | Nov 9, 2010 |  | 321 |
| 293 | 2:25 AM |  |  |
|  | Nov 9, 2010 |  | 322 |
| 294 | 2:42 AM |  |  |
|  | Nov 9, 2010 |  | 323 |
| 295 | 3:18 AM |  |  |
|  | Nov 9, 2010 |  | 324 |
| 296 | 4:00 AM |  |  |
|  | Nov 9, 2010 |  | 325 |
| 297 | 4:14 AM |  |  |
|  | Nov 9, 2010 |  | 326 |
| 298 | 5:47 AM |  |  |
|  | Nov 9, 2010 |  | 327 |
| 299 | 5:58 AM |  |  |
|  | Nov 9, 2010 |  | 328 |
| 300 | 8:09 AM |  |  |
|  | Nov 9, 2010 |  | 329 |
| 301 | 8:26 AM |  |  |
|  | Nov 9, 2010 |  | 330 |
| 302 | 11:44 AM | 16miles |  |
|  | Nov 9, 2010 |  | 331 |
| 303 | 11:51 AM |  |  |
|  | Nov 9, 2010 |  | 332 |
| 304 | 11:58 AM |  |  |
|  | Nov 9, 2010 |  | 333 |
| 305 | 12:20 PM |  |  |
|  | Nov 9, 2010 |  | 334 |
| 306 | 12:20 PM |  |  |
|  | Nov 9, 2010 |  | 335 |
| 307 | 12:21 PM |  |  |
|  | Nov 9, 2010 |  | 336 |
| 308 | 12:33 PM |  |  |
|  | Nov 9, 2010 |  | 337 |
| 309 | 12:36 PM |  | 338 |

Nov 9, 2010 12:40 PM
Nov 9, 2010 12:43 PM
Nov 9, 2010 12:46 PM
Nov 9, 2010 12:48 PM
Nov 9, 2010 12:50 PM
Nov 9, 2010 12:55 PM
Nov 9, 2010 12:58 PM
Nov 9, 2010 1:00 PM
Nov 9, 2010 1:00 PM
Nov 9, 2010 1:07 PM
Nov 9, 2010 1:07 PM
Nov 9, 2010
1:09 PM
Nov 9, 2010 1:10 PM
Nov 9, 2010 1:10 PM
Nov 9, 2010 1:11 PM
Nov 9, 2010 1:12 PM
Nov 9, 2010 1:14 PM
Nov 9, 2010 1:14 PM
Nov 9, 2010 1:16 PM
Nov 9, 2010 1:22 PM
Nov 9, 2010 1:23 PM
Nov 9, 2010 1:23 PM
Nov 9, 2010 1:25 PM
Nov 9, 2010 1:26 PM
Nov 9, 2010 1:29 PM
Nov 9, 2010 1:31 PM
Nov 9, 2010 1:32 PM Nov 9, 2010 1:32 PM Nov 9, 2010

34
Question 4??? I start at 1 of 2 work East is 28 miles, round trip West is

1
6
15 mi round trip
44
9

20
90 daily
9

8

156
90
70 miles
10
12
10

24

9
6 (I drive half way to work, then tak
60
70
10 miles
28
53

25 Drive less than 10x2roear and on appointments/errands.

29
5.5

50 miles
10
40
6 blocks, one way
6
14


|  | 4:59 PM |  |
| :---: | :---: | :---: |
|  | Nov 9, 2010 |  |
| 396 | 5:01 PM |  |
|  | Nov 9, 2010 |  |
| 397 | 5:04 PM |  |
|  | Nov 9, 2010 |  |
| 398 | 5:07 PM |  |
|  | Nov 9, 2010 |  |
| 399 | 5:18 PM |  |
|  | Nov 9, 2010 |  |
| 400 | 5:23 PM |  |
|  | Nov 9, 2010 |  |
| 401 | 5:23 PM |  |
|  | Nov 9, 2010 |  |
| 402 | 5:24 PM | 12 miles |
|  | Nov 9, 2010 |  |
| 403 | 5:34 PM |  |
|  | Nov 9, 2010 |  |
| 404 | 5:39 PM |  |
|  | Nov 9, 2010 |  |
| 405 | 5:42 PM |  |
|  | Nov 9, 2010 |  |
| 406 | 5:44 PM |  |
|  | Nov 9, 2010 |  |
| 407 | 5:47 PM | approx 20 on most days, but |
|  | Nov 9, 2010 |  |
| 408 | 5:56 PM |  |
|  | Nov 9, 2010 |  |
| 409 | 6:17 PM |  |
|  | Nov 9, 2010 |  |
| 410 | 6:24 PM |  |
|  | Nov 9, 2010 |  |
| 411 | 6:53 PM |  |
|  | Nov 9, 2010 |  |
| 412 | 6:57 PM |  |
|  | Nov 9, 2010 |  |
| 413 | 7:09 PM | 35 miles |
|  | Nov 9, 2010 |  |
| 414 | 8:12 PM |  |
|  | Nov 9, 2010 |  |
| 415 | 8:34 PM |  |
|  | Nov 9, 2010 |  |
| 416 | 8:35 PM | 3 miles |
|  | Nov 9, 2010 |  |
| 417 | 8:49 PM |  |
|  | Nov 9, 2010 |  |
| 418 | 8:54 PM |  |
|  | Nov 9, 2010 |  |
| 419 | 9:02 PM |  |
|  | Nov 9, 2010 |  |
| 420 | 9:13 PM |  |
|  | Nov 9, 2010 |  |
| 421 | 9:16 PM |  |
|  | Nov 9, 2010 |  |
| 422 | 9:18 PM |  |
|  | Nov 9, 2010 |  |
| 423 | 9:22 PM |  |

Nov 9, 2010 9:23 PM
Nov 9, 2010 9:26 PM
Nov 9, 2010 9:32 PM
Nov 9, 2010 9:38 PM
Nov 9, 2010 9:42 PM
Nov 9, 2010 9:55 PM
Nov 9, 2010 10:00 PM
Nov 9, 2010 10:13 PM
Nov 9, 2010 10:13 PM
Nov 9, 2010 10:26 PM
Nov 9, 2010 10:59 PM
Nov 10, 2010 1:03 AM
Nov 10, 2010 1:13 AM
Nov 10, 2010 1:58 AM
Nov 10, 2010 2:51 AM
Nov 10, 2010 12:00 PM
Nov 10, 2010 1:24 PM
Nov 10, 2010 1:59 PM
Nov 10, 2010 2:01 PM
Nov 10, 2010
3.5 miles one way

15 miles

32 miles round trip
-
Nov 10, 2010 2:51 PM
Nov 10, 2010
Nov 10, 201092 4:53 PM
Nov 10, 2010 6:12 PM
Nov 10, 2010 6:49 PM
Nov 10, 2010

12
2

11
15

60

4

|  | 8:46 PM |  |
| :---: | :---: | :---: |
|  | Nov 10, 2010 |  |
| 453 | 9:03 PM |  |
|  | Nov 10, 2010 |  |
| 454 | 9:12 PM | 10 miles |
|  | Nov 10, 2010 |  |
| 455 | 9:27 PM |  |
|  | Nov 11, 2010 |  |
| 456 | 12:20 AM |  |
|  | Nov 11, 2010 |  |
| 457 | 12:46 AM |  |
|  | Nov 11, 2010 |  |
| 458 | 1:22 AM |  |
|  | Nov 11, 2010 |  |
| 459 | 2:48 AM |  |
|  | Nov 11, 2010 |  |
| 460 | 9:38 AM |  |
|  | Nov 11, 2010 |  |
| 461 | 11:28 AM |  |
|  | Nov 11, 2010 |  |
| 462 | 3:02 PM |  |
|  | Nov 11, 2010 |  |
| 463 | 3:15 PM |  |
|  | Nov 11, 2010 |  |
| 464 | 3:17 PM |  |
|  | Nov 11, 2010 |  |
| 465 | 5:01 PM | 50 miles |
|  | Nov 11, 2010 |  |
| 466 | 6:37 PM | 60 miles |
|  | Nov 11, 2010 |  |
| 467 | 7:01 PM |  |
|  | Nov 11, 2010 |  |
| 468 | 7:54 PM | 56 miles |
|  | Nov 11, 2010 |  |
| 469 | 8:05 PM |  |
|  | Nov 11, 2010 |  |
| 470 | 8:25 PM |  |
|  | Nov 11, 2010 |  |
| 471 | 8:28 PM |  |
|  | Nov 11, 2010 |  |
| 472 | 8:30 PM |  |
|  | Nov 11, 2010 |  |
| 473 | 8:33 PM |  |
|  | Nov 11, 2010 |  |
| 474 | 9:16 PM |  |
|  | Nov 12, 2010 |  |
| 475 | 4:58 AM |  |
|  | Nov 12, 2010 |  |
| 476 | 1:54 PM |  |
|  | Nov 12, 2010 |  |
| 477 | 4:52 PM | 32 miles a day- I work spilt st |
|  | Nov 12, 2010 |  |
| 478 | 6:10 PM | 14 miles |
|  | Nov 12, 2010 |  |
| 479 | 9:20 PM | 10 miles |
|  | Nov 12, 2010 |  |
| 480 | 9:35 PM |  |

Nov 13, 2010
10:31 PM
Nov 14, 2010 3:40 PM
Nov 15, 2010
1:10 PM
Nov 15, 2010
2:17 PM
Nov 15, 2010
3:14 PM
Nov 15, 2010
4:47 PM
Nov 15, 2010 10:16 PM
Nov 16, 2010
5:10 PM
Nov 16, 2010
5:10 PM
Nov 16, 2010 5:10 PM
Nov 16, 2010
5:11 PM
Nov 16, 2010 5:11 PM
Nov 16, 2010 5:11 PM
Nov 16, 2010 5:11 PM
Nov 16, 2010 5:11 PM
Nov 16, 2010 5:11 PM
Nov 16, 2010 5:12 PM
Nov 16, 2010 5:13 PM
Nov 16, 2010 5:13 PM
Nov 16, 2010 5:13 PM
Nov 16, 2010 5:13 PM
Nov 16, 2010 5:14 PM
Nov 16, 2010 5:14 PM
Nov 16, 2010 5:14 PM
Nov 16, 2010 5:14 PM nes to work a day

24

Nov 16, 2010 5:15 PM
Nov 16, 2010 5:15 PM
Nov 16, 2010 5:17 PM I answered this on the previous pas

Nov 16, 2010
Nov 16, 2010 5:18 PM
Nov 16, 2010
5:18 PM
Nov 16, 2010
5:19 PM
Nov 16, 2010
5:19 PM
Nov 16, 2010

Nov 16, 2010 5:32 PM
Nov 16, 2010 5:34 PM
Nov 16, 2010 5:36 PM
Nov 16, 2010
5:38 PM
Nov 16, 2010 5:38 PM
Nov 16, 2010 5:40 PM
Nov 16, 2010 5:40 PM
Nov 16, 2010 5:45 PM
Nov 16, 2010
Nov 16, 2010 5:52 PM
Nov 16, 2010 5:53 PM
Nov 16, 2010
Nov 16, 2010 6:06 PM
Nov 16, 2010 6:06 PM
Nov 16, 2010 6:08 PM
Nov 16, 2010
About 10 miles.

## -

6:13 PM
Nov 16, 2010

Nov 16, 2010 6:21 PM
Nov 16, 2010 6:35 PM
Nov 16, 2010
6:36 PM
Nov 16, 2010
6:38 PM
Nov 16, 2010
6:40 PM
Nov 16, 2010
6:42 PM
Nov 16, 2010
6:44 PM
Nov 16, 2010
6:47 PM
Nov 16, 2010 7:00 PM
Nov 16, 2010
7:16 PM
Nov 16, 2010
7:16 PM
Nov 16, 2010
7:21 PM

Nov 16, 2010
7:25 PM
Nov 16, 2010
7:34 PM
Nov 16, 2010
7:49 PM
Nov 16, 2010
7:54 PM
Nov 16, 2010
8:05 PM
Nov 16, 2010
8:13 PM
Nov 16, 2010 8:16 PM
Nov 16, 2010 8:17 PM
Nov 16, 2010 8:23 PM
Nov 16, 2010
8:45 PM
Nov 16, 2010 8:51 PM
Nov 16, 2010 8:52 PM
Nov 16, 2010
8:58 PM
Nov 16, 2010
9:15 PM

14

9

18
3.5

6
8

10
32 Miles
30
15
10
11

30 each way
my office is a half a bl\&\&k from my
but sometimes i need flowork at an
average I drive 4 miles/ day for wor
18
8
0
5
7.1

20
27.6

Some weeks I drive 16 per day, oth

| 565 | Nov 16, 2010 |  |
| :---: | :---: | :---: |
|  | 9:31 PM |  |
|  | Nov 16, 2010 |  |
| 566 | 9:33 PM |  |
|  | Nov 16, 2010 |  |
| 567 | 9:56 PM |  |
|  | Nov 16, 2010 |  |
| 568 | 10:02 PM |  |
|  | Nov 16, 2010 |  |
| 569 | 10:34 PM |  |
|  | Nov 16, 2010 |  |
| 570 | 10:36 PM |  |
|  | Nov 16, 2010 |  |
| 571 | 10:43 PM |  |
|  | Nov 17, 2010 |  |
| 572 | 1:57 AM |  |
|  | Nov 17, 2010 |  |
| 573 | 2:35 AM |  |
|  | Nov 17, 2010 |  |
| 574 | 12:43 PM |  |
|  | Nov 17, 2010 |  |
| 575 | 12:55 PM |  |
|  | Nov 17, 2010 |  |
| 576 | 12:57 PM |  |
|  | Nov 17, 2010 |  |
| 577 | 1:01 PM |  |
|  | Nov 17, 2010 |  |
| 578 | 1:13 PM |  |
|  | Nov 17, 2010 |  |
| 579 | 1:25 PM |  |
|  | Nov 17, 2010 |  |
| 580 | 1:39 PM | About 550 miles per week. |
|  | Nov 17, 2010 |  |
| 581 | 1:51 PM |  |
|  | Nov 17, 2010 |  |
| 582 | 2:02 PM |  |
|  | Nov 17, 2010 |  |
| 583 | 3:28 PM |  |
|  | Nov 17, 2010 |  |
| 584 | 3:30 PM |  |
|  | Nov 17, 2010 |  |
| 585 | 3:57 PM |  |
|  | Nov 17, 2010 |  |
| 586 | 4:59 PM |  |
|  | Nov 17, 2010 |  |
| 587 | 7:38 PM |  |
|  | Nov 17, 2010 |  |
| 588 | 8:00 PM |  |
|  | Nov 17, 2010 |  |
| 589 | 8:38 PM |  |
|  | Nov 17, 2010 |  |
| 590 | 9:58 PM |  |
|  | Nov 18, 2010 |  |
| 591 | 4:30 AM |  |
|  | Nov 18, 2010 |  |
| 592 | 4:47 AM |  |
| 593 | Nov 18, 2010 |  |



| Number | Response <br> Date | Response Text |
| ---: | ---: | ---: |


|  | $\begin{array}{r} \text { Nov 8, } \\ 20108: 34 \end{array}$ |  |  | $\begin{array}{r} \text { Nov 8, } \\ 20108: 35 \end{array}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 |  |  | 22 |  | Honda CR-V | 14 |
|  | $\begin{array}{r} \text { Nov 8, } \\ 20108: 34 \end{array}$ |  |  | $\begin{array}{r} \text { Nov 8, } \\ 20108: 35 \end{array}$ |  |  |
| 4 | PM | Toyota Solara | 23 |  | Hyundai Sante Fe |  |
|  | Nov 8, 2010 8:34 |  |  | $\begin{array}{r} \text { Nov 8, } \\ 20108: 35 \end{array}$ |  |  |
| 5 | PM | n/a | 24 | PM | Toyota Sienna |  |
|  | Nov 8, $20108 \cdot 34$ |  |  | Nov 8, $20108 \cdot 35$ |  |  |
| 6 | PM | rav4 toyota | 25 | PM | Ford Excape |  |
|  | Nov 8, |  |  | Nov 8, | 29 mpg |  |
|  | 2010 8:34 |  |  | 2010 8:35 |  |  |
| 7 | PM |  | 26 | PM | 2006 Toyota Matrix | 35 |
|  | Nov 8, |  |  | Nov 8, 20108.35 |  |  |
|  |  | BMW 325xi - 22 mpg |  |  |  |  |
| 8 | PM Nov 8, | BMW 325xi-22 mpg | 27 | Nov 8, |  |  |
|  | 2010 8:34 |  |  | 2010 8:35 |  |  |
| 9 | PM | kai rio | 28 | PM |  |  |
|  | Nov 8, 2010 8:34 |  |  | $\begin{array}{r} \text { Nov 8, } \\ 20108: 35 \end{array}$ |  |  |
| 10 | PM |  | 29 | PM | 31 mph | 24 |
|  | Nov 8, | 28 MPG |  | Nov 8, |  |  |
|  | 2010 8:34 |  |  | 2010 8:35 |  |  |
| 11 | PM | 2001 Saturn SI | 30 | PM | 27 mpg |  |
|  | Nov 8, $20108 \cdot 34$ |  |  | Nov 8, $2010 \text { 8:35 }$ |  |  |
| 12 | PM | 2004 ford crown victoria | 31 | PM |  |  |
|  | Nov 8, $20108 \cdot 34$ |  |  | Nov 8, $20108 \cdot 35$ |  |  |
| 13 | PM | 2002 Hyundai Sonata | 32 | PM | 26 mpg |  |
|  | Nov 8, |  |  | Nov 8, |  |  |
|  | 2010 8:34 |  |  | 2010 8:36 |  |  |
| 14 | PM | 23 mpg | 33 | PM | 20 dodge mini van |  |
|  | $\begin{array}{r} \text { Nov 8, } \\ 20108: 34 \end{array}$ |  |  | $\begin{array}{r} \text { Nov 8, } \\ 20108: 36 \end{array}$ |  |  |
| 15 | PM | Chevy Malibu, City Car | 34 | PM | 25 mpg |  |
|  | Nov 8, |  |  | Nov 8, |  |  |
|  | 2010 8:34 |  |  | 2010 8:36 |  |  |
| 16 | PM |  | 35 | PM | Nissan Altima | 32 |
|  | Nov 8, |  |  | Nov 8, 20108.36 |  |  |
| 17 |  | VW Golf TDI (turbo diesel) 45-4 | 36 |  | 48 Toyota Prius |  |
| 17 | Nov 8, | VW Golf TDI (turbo diesel) 45-4 | 36 | Nov 8, | 48 Toyota Prius |  |
|  | 2010 8:35 |  |  | 2010 8:36 |  |  |
| 18 | PM | 14 mpg | 37 | PM | 18 MPH |  |
|  | Nov 8, 2010 8:35 |  |  | $\begin{array}{r} \text { Nov 8, } \\ 20108: 36 \end{array}$ |  |  |
| 19 | PM | 2008 Honda Fit | 38 | PM | Ford Tarus |  |
|  | Nov 8, |  |  | Nov 8, |  |  |
| 20 | 2010 PM | Audi A6 | 39 | 2010 PM | 22 mpg |  |
|  | Nov 8, |  |  | Nov 8, |  |  |
|  | 2010 8:35 |  |  | 2010 8:36 |  |  |
| 21 | PM | 17 mpg | 40 | PM | 24 miles per gallon |  |









|  | Nov 9, 2010 |  |
| :---: | :---: | :---: |
| 307 | 12:33 PM | Jeep Cherokee Grand Laredo |
|  | Nov 9, 2010 |  |
| 308 | 12:36 PM | Honda cr-v |
|  | Nov 9, 2010 |  |
| 309 | 12:40 PM | 18 MPG |
|  | Nov 9 , 2010 |  |
| 310 | 12:43 PM |  |
|  | Nov 9, |  |
| 311 | 12:46 PM | Dodge Caravan, 22 mpg |
|  | Nov 9, | D |
|  | 2010 |  |
| 312 | 12:48 PM | 17 MPG |
|  | Nov 9, |  |
|  | 2010 |  |
| 313 | 12:50 PM | 15 mi per gal in town |
|  | Nov 9, 2010 |  |
| 314 | 12:55 PM | Mazda 3 |
|  | Nov 9, |  |
|  | 2010 |  |
| 315 | 12:58 PM | 2006 chevy 1500 pickup |
|  | Nov 9, |  |
|  | 2010 1:00 |  |
| 316 | PM |  |
|  | Nov 9, 2010 1:07 |  |
| 317 | PM | VW Passat |
|  | Nov 9, |  |
|  | 2010 1:07 |  |
| 318 | PM | Subaru Forester |
|  | Nov 9, |  |
|  | 2010 1:09 |  |
| 319 | PM | 2008 GMC Canyon |
|  | Nov 9, |  |
|  | 2010 1:10 |  |
| 320 | PM |  |
|  | Nov 9, |  |
|  | 2010 1:10 |  |
| 321 | PM | N/A |
|  | Nov 9, |  |
|  | 2010 1:11 | I either ride my bike, take my sco |
| 322 | PM | Car gets about 20 mpg |
|  | Nov 9 , |  |
|  | 2010 1:12 |  |
| 32 | PM | 2005 VW Bug |
|  | Nov 9, 2010 1:14 |  |
|  | $2010 \text { 1:14 }$ |  |
| 32 | PM | 25 mpg |
|  | Nov 9, |  |
|  | 2010 1:14 |  |
| 325 | PM |  |

Nov 9, 2010 1:16 PM Nov 9 , 2010 1:22 PM
Nov 9 , 2010 1:23 PM
Nov 9, 2010 1:23 PM
Nov 9 , 2010 1:25 PM
Nov 9, 2010 1:26 PM
Nov 9 , 2010 1:29 PM
Nov 9 , 2010 1:31 PM
Nov 9 , 2010 1:32 PM
Nov 9 , 2010 1:32 PM
Nov 9, 2010 1:33 PM
Nov 9 , 2010 1:39 PM
Nov 9 , 2010 1:40 PM
Nov 9 , 2010 1:41 PM
Nov 9, 2010 1:43 PM
Nov 9 ,

Nov 9, 2010 1:45 PM
Nov 9, 2010 1:47

Nov 9, 2010 1:47
344

2010 1:43 ather. Honda silver wing scooter.

PM 4 cyl Honda Accord PM 16 hwy gmc serria 1997

16 miles per gallon

Ponitac Montana

2003 Sebring




|  | $\begin{array}{r} \text { Nov 11, } \\ 20109: 38 \end{array}$ |  |
| :---: | :---: | :---: |
| 459 | AM | 92 honda accord |
|  | $\begin{array}{r} \text { Nov 11, } \\ 2010 \end{array}$ |  |
| 460 | 11:28 AM | 28 mpg |
|  | Nov 11, |  |
|  | 2010 3:02 |  |
| 461 | PM |  |
|  | Nov 11, |  |
|  | 2010 3:15 |  |
| 462 | PM | suv |
|  | Nov 11, |  |
|  | 2010 3:17 |  |
| 463 | PM |  |
|  | Nov 11, |  |
|  | 2010 5:01 |  |
| 464 | PM | toyota Solara |
|  | Nov 11, |  |
|  | 2010 6:37 |  |
| 465 | PM | Honda CRV 2003 |
|  | Nov 11, |  |
|  | 2010 7:01 |  |
| 466 | PM | Toyota Highlander Hybrid |
|  | Nov 11, |  |
|  | 2010 7:54 |  |
| 467 | PM | 21 mpg |
|  | Nov 11, |  |
|  | 2010 8:05 |  |
| 468 | PM |  |
|  | Nov 11, |  |
|  | 2010 8:25 |  |
| 469 | PM | 25 Pontiac Vibe |
|  | Nov 11, |  |
|  | 2010 8:28 |  |
| 470 | PM | 14 mpg |
|  | Nov 11, |  |
|  | 2010 8:30 |  |
| 471 | PM | 1994 Ford Taurus |
|  | Nov 11, |  |
|  | 2010 8:33 |  |
| 472 | PM |  |
|  | Nov 11, |  |
|  | 2010 9:16 |  |
| 473 | PM | Toyota Corolla |
|  | Nov 12, |  |
|  | 2010 4:58 |  |
| 474 | AM |  |
|  | Nov 12, |  |
|  | 2010 1:54 |  |
| 475 | PM | 2001 Chrysler Town and Country |
|  | Nov 12, |  |
|  | $2010 \text { 4:52 }$ |  |
| 47 | $\begin{gathered} \text { PM } \\ \text { Nov 12, } \end{gathered}$ | 26 mile per gal. I have a honda c |
|  | 2010 6:10 |  |
| 477 | PM | 18 MPG |






| How many miles do you walk or bike to get to and from work per day? |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Answer Options |  |  | Response Count |  |  |
|  |  | 439 |  |  |  |
| answered question |  |  |  |  | 439 |
| skipped question |  |  |  |  | 268 |
| Number |  | Response Text | 22 Nov 8, 2010 8:36 |  |  |
|  | Response Date |  |  |  |  |
| 1 |  |  | 22 | Nov 8, 2010 8:36 |  |
|  | PM <br> Nov $8,20108 \cdot 34$ |  | 23 | PM Nov 8, 2010 8:36 | 0 |
| 2 | Nov 8, 2010 8:34 |  | 24 | Nov 8, 2010 PM | 0.5 from garking |
|  | Nov 8, 2010 8:34 |  | 25 | Nov 8, 2010 8:36 |  |
| 3 | PM |  |  | PM | I only bike in milder weath |
|  | Nov 8, 2010 8:34 |  | 26 | Nov 8, 2010 8:36 |  |
| 4 | PM |  |  | PM | 4 |
|  | Nov 8, 2010 8:34 |  | 27 | Nov 8, 2010 8:36 Nov 8, 2010 8:36 |  |
| 5 | PM |  |  |  | 3 |
|  | Nov 8, 2010 8:34 |  | 28 |  |  |
| 6 | PM |  |  | Nov 8, 2010 8:36PMNov 8, 2010 8:36 | 0.5 |
|  | Nov 8, 2010 8:34 |  | 29 |  |  |
| 7 | PM |  |  | PMNov 8, 2010 8:36 | 0 |
|  | Nov 8, 2010 8:34 |  |  |  |  |
| 8 | PM |  | 30 | PMNov 8, 2010 8:36 | 1.5 |
|  | Nov 8, 2010 8:35 |  |  |  |  |
| 9 | PM |  | 31 | PM | 1 mile eagh way |
|  | Nov 8, 2010 8:35 |  |  | Nov 8, 2010 8:36 |  |
| 10 | P PM | n/a | 32 | PMNov 8, 2010 8:36 |  |
|  | Nov 8, 2010 8:35 |  |  |  |  |
| 11 | PM |  | 33 | Nov 8, 2010 8: $\begin{array}{r}\text { PM } \\ \hline\end{array}$ | 5 |
|  | Nov 8, 2010 8:35 |  |  |  |  |
| 12 | PM |  | 34 | PMNov 8, 2010 8:37 | 0 |
|  | Nov 8, 2010 8:35 |  |  |  |  |
| 13 | PM |  | 35 | Nov 8, 2010 8: 8 PM | 0 |
|  | Nov 8, 2010 8:35 |  |  |  |  |
| 14 | PM |  | 36 | PMNov 8, 2010 8:37 | 0 |
|  | Nov 8, 2010 8:35 |  |  |  |  |
| 15 | PM |  | 37 | PMNov 8, 2010 8:37 | 0 |
|  | Nov 8, 2010 8:35 |  |  |  |  |
| 16 | P ${ }^{\text {PM }}$ |  | 38 | PMNov 8, 2010 8:37 | 0 |
|  | Nov 8, 2010 8:35 |  |  |  |  |
| 17 | PM |  | 39 Nov 8, 2010 8:38 |  | 0 |
|  | Nov 8, 2010 8:35 |  |  |  | 2.5 - gene.grally I take the $b$ |
| 18 | PM |  | 40 | PM |  |
|  | Nov 8, 2010 8:35 |  |  | Nov 8, 2010 8:38 |  |
| 19 | PM | 1 mile | 41 | PM | 4 |
|  | Nov 8, 2010 8:35 |  |  | Nov 8, 2010 8:38 |  |
| 20 | PM |  | 42 | Nov 8, 2010 8:38 |  |
|  | Nov 8, 2010 8:36 |  |  |  |  |
| 21 | PM |  | 43 | PM | n/a 12 |

Nov 8, 2010 8:38
Nov 8, 2010 8:38 PM
Nov 8, 2010 8:38
PM
Nov 8, 2010 8:38
PM
Nov 8, 2010 8:38 PM
Nov 8, 2010 8:39
PM
Nov 8, 2010 8:39
PM
Nov 8, 2010 8:40
PM
Nov 8, 2010 8:40
PM
Nov 8, 2010 8:40 PM
Nov 8, 2010 8:41
Nov 8, 2010 8:41
PM
Nov 8, 2010 8:41
PM
Nov 8, 2010 8:41
PM
Nov 8, 2010 8:41 PM
Nov 8, 2010 8:41
PM
Nov 8, 2010 8:42
PM
Nov 8, 2010 8:42
Nov 8, 2010 8:42
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Nov 8, 2010 8:42
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Nov 8, 2010 8:42
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Nov 8, 2010 8:42
PM
Nov 8, 2010 8:42
PM
Nov 8, 2010 8:43
PM
Nov 8, 2010 8:43
Nov 8, 2010 8:43
PM
Nov 8, 2010 8:43
PM
Nov 8, 2010 8:44
PM

PM o miles PM 1/2 mile


Nov 8, 2010 8:53
PM
Nov 8, 2010 8:53
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Nov 8, 2010 8:53
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Nov 8, 2010 8:53
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Nov 8, 2010 8:53
Nov 8, 2010 8.54
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Nov 8, 2010 8:54
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Nov 8, 2010 8:54
Nov 8, 2010 8:54
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Nov 8, 2010 8:54
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Nov 8, 2010 8:55
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Nov 8, 2010 8:56
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Nov 8, 2010 8:56
Nov 8, 2010 8:57
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Nov 8, 2010 8:57
PM
Nov 8, 2010 8:59
PM
Nov 8, 2010 8:59
PM
Nov 8, 2010 9:00
PM
Nov 8, 2010 9:01
PM
Nov 8, 2010 9:02
PM
Nov 8, 2010 9:02
PM
Nov 8, 2010 9:02
PM
Nov 8, 2010 9:02
PM
Nov 8, 2010 9:03
PM
Nov 8, 2010 9:03
Nov 8, 2010 9:03
PM
Nov 8, 2010 9:03
PM
Nov 8, 2010 9:04

PM na

PM drive in and walk c
0.5 (to and from bı 130

When I do not driv bike/bus during D

PM
Nov 8, 2010 9:04
PM 8 blocks
Nov 8, 2010 9:04
PM
Nov 8, 2010 9:04
PM
Nov 8, 2010 9:05 0
PM
Nov 8, 2010 9:05 0
Nov 8, 2010 9:06
PM
Nov 8, 2010 9:06 0
Nov 8, 2010 9:06 26
PM
Nov 8, 2010 9:06 0
Nov 8, 2010 9:07 0
PM
Nov 8, 2010 9:08 0

Nov 8, 2010 9:09

$$
\mathrm{N} / \mathrm{A}
$$

0
0
PM
Nov 8, 2010 9:10
PM
Nov 8, 2010 9:10 0

Nov 8, 2010 9:11 0.5
PM
Nov 8, 2010 9:11 0
Nov 8, 2010 9:12 0
Nov 8, 2010 9:12 1.5
Nov 8, 2010 9:12
Nov 8, 2010 9:12 5.5
PM
Nov 8, 2010 9:12 10/20/2010
PM ZERO
Nov 8, 2010 9:13 0
PM
Nov 8, 2010 9:13
PM
Nov 8, 2010 9:13

Nov 8, 2010 9:15

Nov 8, 2010 9:16
Nov 8, 2010 9:17
Nov 8, 2010 9:18
PM
Nov 8, 2010 9:20
Nov 8, 2010 9:22
Nov 8, 2010 9:22
PM
Nov 8, 2010 9:23 PM
Nov 8, 2010 9:24
Nov 8, 2010 9:24
PM
Nov 8, 2010 9:26
PM
Nov 8, 2010 9:26
Nov 8, 2010 9:26


Nov 8, 2010 9:28
PM
Nov 8, 2010 9:30
PM
Nov 8, 2010 9:34
PM
Nov 8, 2010 9:34
Nov 8, 2010 9:37
PM
Nov 8, 2010 9:40
PM
Nov 8, 2010 9:45
PM
Nov 8, 2010 9:47
PM
Nov 8, 2010 9:47
Nov 8, 2010 9:48
PM 3 Daily except wh
Nov 8, 2010 9:48
PM
Nov 8, 2010 9:49
Nov 8, 2010 9:50
PM
Nov 8, 2010 9:51
PM
Nov 8, 2010 9:53
PM n/a
PM
Nov 8, 2010 9:53

PM
Nov 8, 2010 9:53
PM
Nov 8, 2010 9:59
PM Nov 8, 2010 9:59 PM
Nov 8, 2010 10:01 PM
Nov 8, 2010 10:01 PM
Nov 8, 2010 10:02 PM
Nov 8, 2010 10:03 PM
Nov 8, 2010 10:04 PM
Nov 8, 2010 10:09 PM
Nov 8, 2010 10:15 PM
Nov 8, 2010 10:16 PM
Nov 8, 2010 10:18 PM
Nov 8, 2010 10:22 PM
Nov 8, 2010 10:28 PM
Nov 8, 2010 10:31 PM
Nov 8, 2010 10:37 PM
Nov 8, 2010 10:37 PM
Nov 8, 2010 10:48 PM
Nov 8, 2010 11:17 PM
Nov 8, 2010 11:22 PM
Nov 8, 2010 11:28 PM
Nov 8, 2010 11:45 PM
Nov 9, 2010 12:09 AM
Nov 9, 2010 12:13 AM
Nov 9, 2010 12:16 AM
Nov 9, 2010 12:56 AM
Nov 9, 2010 1:10
AM
Nov 9, 2010 1:39
AM

0
4 (summer biker, winter dr 3
handicapped

0
0
0
0.25

0
3
3
0
none
0
Seven Blocks to and from
6

0
3
none
0
6

0
0
1
0

Half mile
0

0

11
0

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Nov 9, 2010 1:44
Nov 9, 2010 1:50 AM
Nov 9, 2010 1:59
Nov 9, 2010 AM AM Nov 9, 2010 3:19 Nov 9,2010 4:01 AM Nov 9, 2010 4:14 AM Nov 9, 2010 5:59 Nov 9, 2010 AM AM
Nov 9, 2010 11:45 AM
Nov 9, 2010 11:59 AM
Nov 9, 2010 12:21 PM
Nov 9, 2010 12:22 PM
Nov 9, 2010 12:33 PM
Nov 9, 2010 12:37 PM
Nov 9, 2010 12:47 PM
Nov 9, 2010 12:56 PM
Nov 9, 2010 12:58 PM Nov 9, 2010 1:01 PM Nov 9, 2010 1:07

Nov 9, 2010 1:08 PM

Nov 9, 2010 1:10 Nov 9, 2010 1:11 PM
Nov 9, 2010 1:11
PM
Nov 9, 2010 1:13
Nov 9, 2010 1:15 PM
Nov 9, 2010 1:16
Nov 9, 2010 1:23 PM

243
N/A


PM 14, weather perm

Nov 9, 2010 1:23
Nov 9, 2010 1:23
PM
Nov 9, 2010 1:26
PM
Nov 9, 2010 1:30
PM
Nov 9, 2010 1:32
PM
Nov 9, 2010 1:33
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Nov 9, 2010 1:33
PM
Nov 9, 2010 1:34
PM
Nov 9, 2010 1:39
Nov 9, 2010 1:45
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Nov 9, 2010 1:46
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Nov 9, 2010 1:46
PM
Nov 9, 2010 1:47
PM
Nov 9, 2010 1:48
PM

Nov 9, 2010 1:52
PM
Nov 9, 2010 1:52
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Nov 9, 2010 2:04
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Nov 9, 2010 2:05
PM
Nov 9, 2010 2:05 PM
Nov 9, 2010 2:06
PM
Nov 9, 2010 2:08 PM
Nov 9, 2010 2:09 PM
Nov 9, 2010 2:10 PM none
Nov 9, 2010 2:12
PM 1 mile
Nov 9, 2010 2:14 15
Nov 9, 2010 2:14 :14 PM n/a
Nov 9, 2010 2:16 PM
Nov 9, 2010 2:29
PM
Nov 9, 2010 2:30
not going to ride bike for 5
in winte245 dumb
zero 0
0
0
0
12
15
n/a
0
0
N/A

0
not going to ride bike for 5
in winte24s dumb
zero 0
0
0

0

12

0
0

```
0
14 - Bikeœand/or bus 98\%
```


PM

Nov 9, 2010 2:38

Nov 9, 2010 5:45
PM

Nov 9, 2010 5:56
Nov 9, 2010 6:25
Nov 9, 2010 6:39
PM
Nov 9, 2010 8:35
PM
Nov 9, 2010 8:38
PM
Nov 9, 2010 8:54
Nov 9, 2010 9:03 PM
Nov 9, 2010 9:16
PM
Nov 9, 2010 9:18
Nov 9, 2010 9:23 PM
Nov 9, 2010 9:23 PM
Nov 9, 2010 9:26 PM
Nov 9, 2010 9:33 PM
Nov 9, 2010 9:43
PM
Nov 9, 2010 10:00 PM
Nov 9, 2010 10:13 PM en 0.5
Nov 9, 2010 10:15 PM
Nov 9, 2010 10:26 PM
Nov 9, 2010 11:00 PM
Nov 10, 2010
1:04 AM
Nov 10, 2010
1:13 AM
Nov 10, 2010 12:02 PM
Nov 10, 2010
1:24 PM
Nov 10, 2010
2:03 PM Jctober;
Nov 10, 2010
2:10 PM N/A
Nov 10, $2010 \quad 0$
2:26 PM
Nov 10, 2010
2:46 PM
Nov 10, 2010
Nov 10, 2010
0

3 miles
4

0
N/A

0

1

0

0
0

0
0
0

 3

0
0

6
0

$$
0
$$

4 miles, during non-slipper
3.5 miles one way

N/A
2; Ride bike 4 day
otherwise drive re:


| 6:09 PM |  |  | Nov 17, 2010 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nov 16, 2010 |  | 414 | 12:56 PM |  |  |
| 386 | 6:14 PM |  |  | Nov 17, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 415 | 12:58 PM |  |  |
| 387 | 6:20 PM |  |  | Nov 17, 2010 |  | 0 |
|  | Nov 16, 2010 | DURING SUMME | 416 | 1:02 PM | EK 8 |  |
| 388 | 6:23 PM | MILES |  | Nov 17, 2010 |  |  |
|  | Nov 16, 2010 |  | 417 | 1:14 PM |  |  |
| 389 | 6:37 PM |  |  | Nov 17, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 418 | 1:39 PM |  |  |
| 390 | 6:39 PM | N/A |  | Nov 17, 2010 |  |  |
|  | Nov 16, 2010 |  | 419 | 1:52 PM |  |  |
| 391 | 6:43 PM |  |  | Nov 17, 2010 |  | 8 |
|  | Nov 16, 2010 |  | 420 | 3:30 PM |  |  |
| 392 | 6:48 PM |  |  | Nov 17, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 421 | 3:58 PM |  |  |
| 393 | 7:01 PM |  |  | Nov 17, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 422 | 5:00 PM |  |  |
| 394 | 7:16 PM |  |  | Nov 17, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 423 | 5:39 PM |  |  |
| 395 | 7:24 PM | 1/8 mile |  | Nov 17, 2010 |  |  |
|  | Nov 16, 2010 |  | 424 | 8:39 PM |  |  |
| 396 | 7:25 PM |  |  | Nov 18, 2010 |  | 0.5 |
|  | Nov 16, 2010 |  | 425 | 4:30 AM |  |  |
| 397 | 7:40 PM | none, we're not all |  | Nov 18, 2010 |  |  |
|  | Nov 16, 2010 |  | 426 | 4:47 AM |  |  |
| 398 | 7:50 PM |  |  | Nov 18, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 427 | 6:35 AM |  |  |
| 399 | 7:54 PM |  |  | Nov 18, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 428 | 12:59 PM | bike in | summer twice a we |
| 400 | 8:14 PM |  |  | Nov 18, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 429 | 6:21 PM |  |  |
| 401 | 8:17 PM |  |  | Nov 18, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 430 | 6:47 PM |  |  |
| 402 | 8:23 PM |  |  | Nov 19, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 431 | 6:08 PM | 4 miles |  |
| 403 | 8:45 PM |  |  | Nov 19, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 432 | 6:34 PM | na |  |
| 404 | 8:51 PM |  |  | Nov 20, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 433 | 1:10 AM |  |  |
| 405 | 8:53 PM |  |  | Nov 21, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 434 | 11:42 PM |  |  |
| 406 | 8:59 PM |  |  | Nov 22, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 435 | 12:38 PM |  |  |
| 407 | 9:16 PM |  |  | Nov 22, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 436 | 3:19 PM | N/A |  |
| 408 | 9:32 PM |  |  | Nov 23, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 437 | 2:23 PM |  |  |
| 409 | 9:34 PM |  |  | Nov 23, 2010 |  | 0 |
|  | Nov 16, 2010 |  | 438 | 9:11 PM | 2 each | way $=4$ round trip |
| 410 | 9:57 PM |  |  | Dec 1, 2010 5:26 |  | 0 |
|  | Nov 16, 2010 |  | 439 | PM |  |  |
| 411 | 10:04 PM |  |  |  |  | 3 |
|  | Nov 16, 2010 |  |  |  |  |  |
| 412 | 10:37 PM |  |  |  |  | 1 |
|  | Nov 17, 2010 |  |  |  |  |  |
| 413 | 2:35 AM |  |  |  |  | 0 |

How many days per week do you ride the bus to work?


| How many miles do you ride the bus to get to and from work? |  |
| :--- | :--- |
| Answer Options | Response <br> Count |
|  | 463 |
|  | answered question <br> skipped question |

How many days per week do you use some other form of transportation other than those previously listed?

Answer Options

| Response <br> Percent | Response <br> Count |
| :---: | :---: |
| $95.0 \%$ | 589 |


| 1 | $1.8 \%$ | 11 |
| :--- | :--- | :---: |
| 2 | $0.6 \%$ | 4 |
| 3 | $0.6 \%$ | 4 |
| 4 | $0.8 \%$ | 5 |
| 4 | $1.1 \%$ | 7 |
| 5 | $0.0 \%$ | 0 |
| 6 | $0.0 \%$ | 0 |
| 7 | answered question |  |
|  | skipped question | $\mathbf{6 2 0}$ |
|  |  | 87 |

How many days per week do you use some other form of transportation other than those previously listed?


Please list other transportation form:
Answer Options

| Response <br> Count |
| :--- |
| 184 |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

