



**City of Oconomowoc Utilities**

***25x25 Energy Independence Community Plan***

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## Overview

### Introduction

The Wisconsin Office of Energy Independence (OEI) administers energy programs to assist Wisconsin to profitably and sustainably promote energy efficiency and renewable energy resources. The goal of the Wisconsin Energy Independent Community Partnership administered by the OEI is to effectively increase energy independent assessments for Wisconsin communities. Currently, there are many communities across the State of Wisconsin interested in implementing and adopting renewable energy and energy efficient projects. This program will assist communities that could be potential pilots or models for completing an energy independence assessment, allowing the community to then move forward with energy efficiency and/or renewable energy projects. In 2008, 10 communities from throughout the State of Wisconsin received an energy independent community grant from the Wisconsin Office of Energy Independence. The City of Oconomowoc (population 13,870) in western Waukesha County was one of the 10 communities and the only municipality in the 7 county southeastern Wisconsin region to receive a grant.

The City of Oconomowoc has a growing coalition of citizens who have joined the not for profit environmental organization - Greener Oconomowoc (GO). The mission of Greener Oconomowoc is to provide the area with a healthy community, a healthy economy, and a healthy environment through the understanding and implementation of the Natural Step principles. Over the last four years various members of GO have interacted with the utilities and City staff members, encouraging the local unit of government to adopt environmentally friendly and sustainable business practices.

In addition, Oconomowoc Utilities were awarded a "Lead by Example" (model cities) grant from power supplier WPPI Energy (WPPI) in 2008 to form a conservation team for the Oconomowoc Utilities service area. Oconomowoc was the second community to receive this grant and it funds the Oconomowoc Utilities Lead by Example Team for three years. The mission of the LBE team is to instill a strong conservation ethic in the community while demonstrating the effectiveness of energy efficiency and renewable resource development.

The Oconomowoc Utilities Lead by Example Team consists of City staff members Robert Duffy - Director of Economic Development, Jason Gallo - City Planner and Zoning Administrator and is chaired by Dennis Bednarski, City of Oconomowoc Utilities Operations Manager. The Environmental Service Representative from WPPI Energy to Oconomowoc Utilities - Greg Hoffmann is on the team as well. Local green business entrepreneurs, Michael Farrell from Sentry Equipment Corp. a local energy innovator that has adopted LED light technology within their corporate facility; and Lisa Geason-Bauer from Evolution Marketing, LLC an Oconomowoc based environmental marketing and communication firm represent local businesses on the committee. Local residents and customers of Oconomowoc Utilities, Floss Whelan - former City of Oconomowoc mayor, current Community development Authority Chairperson and David Nold - 4th district alderman and a member of the City Utilities Committee represent the residential

consumers on the committee. Representing the on-going educational component of renewable energy and energy conservation is Michael Barry – Oconomowoc School District Assistant Superintendent of Business Services.

### Definition

Energy Independent Community (EIC) – a community that is willing to set a goal of “25 by 25” to increase our energy independence, and promote a sustainable energy policy for the State of Wisconsin

### Objectives

The objectives of the Wisconsin Energy Independent Community Partnership are to:

- Increase the use of renewable energy and renewable fuels by 25% by 2025 across the State of Wisconsin.
- Increase and promote public awareness regarding the benefits of increased energy conservation, energy efficiency, and renewable energy use by counties and municipalities around the state. These benefits include and are not exclusive to clean air and water, intelligent land management, rural and urban economic development, as well as state and national energy independence.

### Eligible Participants

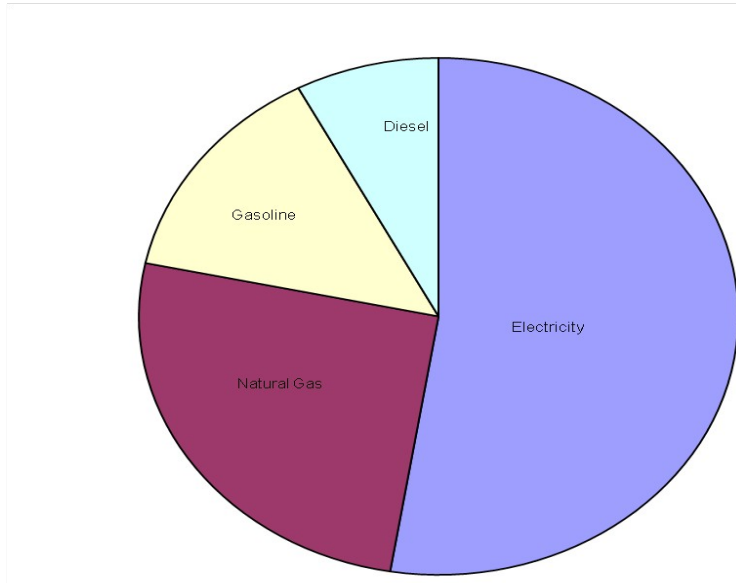
Applicant must be a Wisconsin county, city, village or town that has shown willingness to improve the community’s efforts related to energy conservation, efficiency and potential renewable opportunities. Applicants, if they are responsible for their own municipal water, sewer, or electrical system, must comply with all appropriate state and federal regulations.

### What was Measured and Why?

The City of Oconomowoc’s primary focus was on electrical usage for the 25X25 planning process. This was because the City owns an electric utility. In addition, the guiding factor in deciding what was measured and selected focused on the greatest need and the ability to successfully implement the projects in order to meet the 25x25 goal. The five projects identified for this planning process focused on reduction of electrical energy consumption and were chosen based on solid business decision making strategies that fit into our business case for implementation based on ROI- return on investment.

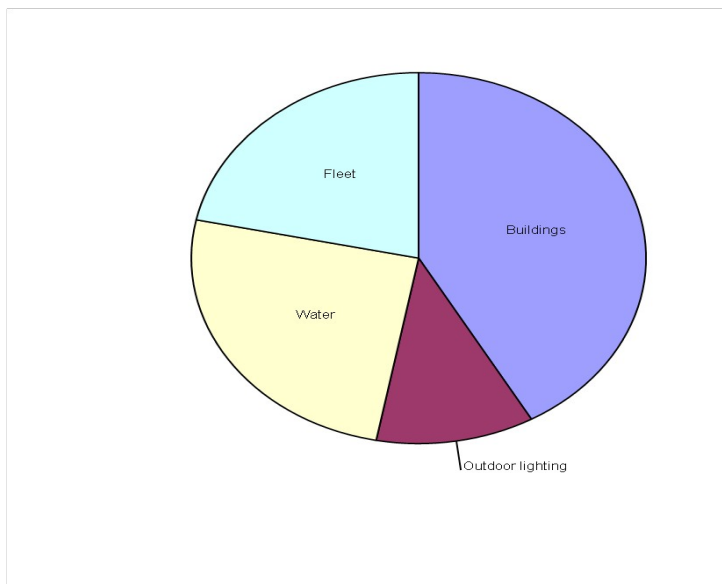
Some of the key projected chosen for the 25 x 25 plan have come from various community members and public input. Residents are concerned about energy conservation, growing the use of renewable energy, and increasing community sustainability. The sustainable codes idea resulted from public input into this planning process.

**Total Consumption by Energy Type for City of Oconomowoc Municipal Energy Usage 2006-2008**



The other projects which have been identified as priorities for Oconomowoc are based on the data generated through the 25x25 planning process. The chart above illustrated that 53% of the municipal energy used by the City is electrical, whereas 26% is natural gas, 14% is gasoline and 8% is diesel fuel.

**Total Consumption by Energy Type for City of Oconomowoc Municipal (2006-2008)**



The above chart breaks down the energy usage into categories; 42% of the energy used in the City is within the municipal buildings, 37% is used for infrastructure (lighting 11% and water 25%), while 22% of the usage is by the fleet vehicles.

Based on the above findings gathered from 2006 to 2008 energy usage data, the Energy Independence Committee and Oconomowoc Utilities Lead by Example Team believe that the best way to reduce energy consumption within the municipality is by first reducing electricity usage. Two projects which will work towards that goal are replacing the lighting at the Oconomowoc public library with LED lights and by replacing all City street lights with LED fixtures. The second means to reducing energy consumption is by finding ways to make the municipal buildings more energy efficient, specific projects would be to replace the heating and cooling system at City Hall with a closed loop geo-thermal system and heat pump. As the City of Oconomowoc grows and new buildings are added to the community it is important to implement visionary features into these new buildings, specifically design elements which address renewable energy generation and energy conservation/environmental conservation. Therefore, the final recommended project would be including green features in the design and building of the City of Oconomowoc/Town of Summit joint fire station #2.

### Discoveries/Surprises

The City of Oconomowoc has its own public electric utility. It serves approximately 8700 customers. This 25X25 Plan fit perfectly into the City's progressive efforts of focusing on energy conservation and renewable green energy. The Oconomowoc Utilities Lead by Example Team and Greener Oconomowoc (a citizen not for profit organization) has helped educate citizens and local business leader related to the importance of environmental issues and energy conservation. One early success and surprise is the fact that the "green blocks of power" (renewable energy option for customer of Oconomowoc Utilities) has increased by 200% since Jan. 1, 2009. As of October 2009 approximately 1,100 blocks (each block is 300 kWhs of renewable energy) are being purchased by Oconomowoc Utility customers (residents in City and Town of Oconomowoc). Currently, 3.62% of the residential energy load being purchased in Oconomowoc is green power. This is well above the national average of 2.3 percent.

The City discovered that selecting projects that are most relevant to the community is the key to garnering support and moving forward on implementation of 25X25 projects. The Lead by Example Team also understands that education is a necessary component along the pathway to implementation.

Another surprise or discovery was the fact that through the analysis of projects, team members recognized that with a little effort and longer range planning the 25X25 goal is attainable.

## Total Projects Considered

The City of Oconomowoc developed a list of ten projects. Each project was considered and analyzed. After receiving input from both the public and City/Utility staff, the Lead by Example Team ranked the projects from one to ten.

1. Create Sustainable Municipal Codes for the City of Oconomowoc
2. Replacement of all Existing Street Lights to LED Fixtures
3. Relamping the City of Oconomowoc Public Library
4. City Hall Heating and Cooling System replaced with Geothermal
5. Inclusion of green building principles into Fire Station # 2 design/construction
6. Hydro Dam Project for the City of Oconomowoc
7. Access City of Oconomowoc Buildings and Install Solar Water Heating Systems in Qualifying Facilities
8. NEV Charging Stations for the City of Oconomowoc
9. Replacement and Upgrade of all Utility Transformers to Meet U.S. Department of Energy Requirements
10. Upgrade of Oconomowoc's Downtown District's Electrical System

## Pathways to 25X25

The City of Oconomowoc used its strategic advantage as owner of a public electric utility to position itself in developing a pathway to reach the 25X25 goal. The advantage of owning and operating an electric utility was kept in mind throughout the planning process.

An extensive public outreach effort was delivered to the citizens and businesses in the City of Oconomowoc throughout this process. In 2009, the Oconomowoc Utilities Lead by Example Team participated in several community events, where the Lead by Example team promoted and educated the public about conservation practices, importance of renewables and the Mayor's Challenge to community about purchasing green blocks of power. The events which the Utilities and Lead by Example participated in are; Greener Oconomowoc's Earth Day Resource Fair (April), Moon Lit Movies (summer) and Wizard of Oz - 70<sup>th</sup> birthday event (Aug), Oconomowoc Chamber of Commerce Harvest Fest and Energy Fair (Oct), 105<sup>th</sup> Anniversary of Oconomowoc Utilities & Shop tour (Oct).

Throughout the 2009 year the Oconomowoc Utilities Lead by Example Team (LBE) was invited to give presentations to several community groups, in each of these presentations the LBE team shared with the community the activities which the City has undertaken to "go green" over the last four years. Each presentation was approximately 30 minutes to 45 minutes and the presentation were followed up with questions from the audiences, many of those specific questions were related to how the City will meet

the 25 x 25 resolution and the future of electric vehicles in Oconomowoc. Presentations were given to; AARP, Oconomowoc Rotary, Oconomowoc Chamber Young Professional Group, Greener Oconomowoc, City of Oconomowoc Common Council, City of Oconomowoc department heads and staff.

The final outreach component implemented in 2009 was a sharing of knowledge between the Oconomowoc Chamber of Commerce and the Oconomowoc Utilities staff members and the business members on the LBE team. In October of 2009, Oconomowoc Utilities and LBE sponsored the monthly chamber breakfast. The theme of the breakfast was "Save Money and Increase your customer base with Green Power;" a panel of 10 local business leaders and representatives from WPPI Energy, Focus on Energy, Oconomowoc Utilities and Lead by Example shared with the over 80 breakfast attendee's case studies of Oconomowoc renewable energy projects and funding options for future projects (through Focus and WPPI Energy).

### Projects Selected Explanation

After much analysis, the Oconomowoc Utilities Lead by Example Team along with the members of the Energy Independence Committee selected five of the ten projects. These projects had the greatest possibility for implementation from a need, cost and political feasibility standpoint. Also, these projects had the necessary analysis completed to make certain that if they are implemented the City of Oconomowoc will reach the 25X25 goal. The five projects included create sustainable municipal codes for the City of Oconomowoc, replacement of all existing street lights to LED fixtures, Relamping the City of Oconomowoc Public Library, City Hall Heating and Cooling System replaced with Geothermal and inclusion of green building principles into design/construction of Fire Station # 2.

### Create Sustainable Municipal Codes for the City of Oconomowoc

The city planning department approves around 200 new projects each year, which includes construction of commercial, industrial, and institutional buildings, architectural applications, subdivision plats and conditional use permits. These projects provide the City with opportunities to educate and encourage sustainable practices. Creating sustainable municipal codes in the City of Oconomowoc may be a logical next step. As technology becomes increasingly better, sustainability codes may provide the City, businesses, and organizations with substantial energy cost savings. The goal after developing the sustainability codes is to use it as a model and share it with communities of similar size throughout Wisconsin. The following sustainable practices are potentially viable for the City.

### Possible Ordinance Code Categories

- Open Space, Impervious Surfaces and Landscaping
- Compact Development and Diverse Housing Types
- Mixed Use, Transit Oriented, Walkability and Community Health
- Local Food Production
- Energy and Renewable Energy



Overall energy savings at the municipal level for implementation of these code categories was projected to generate a 1% energy savings. However, there will be a much greater potential for energy savings for both residents and business owners who implement the above mentioned sustainable codes.

#### Replacement of all Existing Street Lights to LED Fixtures

The purpose of this project is to replace 1028 street lights with LED fixtures within the City of Oconomowoc. This Project identified several conservation reduction advantages which included overall power cost reductions, white light concerns, and long life of new equipment resulting in a reduction in operational maintenance costs.

The total project cost to implement this project is \$2,052,750. Broken down the costs for each light are \$1,500 per fixture, \$225 for labor, and \$60 for additional equipment. The LED lights would reduce electric energy usage by 75% percent. With the implementation of LED street lights, the overall expense for maintenance on the street lights will also decrease.

#### Relamping of the City of Oconomowoc Public Library

This project includes relamping the public library building. This new design will provide appropriate lighting at book level. The project includes adding LED lighting along the book shelves and reading sites. This project would provide a 45% electrical energy savings for the library. The estimated cost of this project for engineering, equipment, materials and labor is approximately \$75,000.

#### City Hall Heating & Cooling System/Geothermal

Oconomowoc City Hall is a historic structure constructed in the late 1800's and has been remodeled and upgraded several times. The most recent remodeling took place in the early 1980's. The existing heating/cooling system is in need of replacement and is inefficient by today's standards.

City Hall is a public building, which is used for City Government functions and public safety functions. It requires constant heating/cooling as it is utilized for meetings in the evenings and all day for City activities. Long periods of inactivity are not likely so the building must be maintained at acceptable temperatures.

Replacement of the Heating/Cooling system with a new efficient geothermal system would save significant resources. The new system would utilize a closed loop system with the loop field being installed behind City Hall in an existing parking area that will be reconstructed as a park and new parking area. The closed loop system would operate efficiently as the area has a high water table, which improves operation of the system. Installation costs would also be reduced, as the City will be proceeding with the park and parking lot improvements. The new geothermal system would provide a constant heat source and would utilize the earth's constant temperature to create heating or cooling with the use of a heat pump.

An estimated cost for the new system that includes installation of the buried loop system along with replacement of the boilers and AC units serving City Hall is \$550,000. The estimated natural gas savings is 10,489 therms (or 95% reduction in natural gas usage)

per year. The estimated electrical savings is 24,691 kilowatt hours (kwh) (or 4% reduction in energy usage) per year.

#### Inclusion of green building principles into design/construction of Fire Station # 2

The City of Oconomowoc and the Town of Summit are planning to build a 17,000 square foot (green built) Fire Station on City of Oconomowoc property in the Pabst Farms development. The City of Oconomowoc/Town of Summit believe it is important to incorporate leadership in energy and environmental design principles and technologies into the Fire Station design in order to ensure that this station will be the most energy efficient and best performing building with the community. Technologies, which will be included in the design, are passive solar (day lighting), grey water system (recycling the water used within the building) and low flow plumbing fixtures. Low vapor-emitting materials/products will be used to finish off the building such as; adhesives, sealants, paints, carpets and composite wood in order to ensure superior indoor air quality. Other sustainable strategies, which will be implemented, include water efficient landscaping, planting of native Wisconsin grasses and rain gardens. The new fire station will result in an 33% natural gas energy savings and a 3% electrical energy savings compared to a conventional fire station built in the same year. The electrical number may be low and that is due to changes in the venting design on the fire station. The new fire station will generate 5% of its energy from renewable resources (solar hot water collectors to supply a good portion of the domestic hot water) and it will see a 35% potable water saving with a zero potable water used for exterior irrigation (due to rainwater harvesting measures.)

#### Projects Not Selected

##### Hydro Dam Project for City of Oconomowoc

The opportunity for a hydro dam fits into Oconomowoc's future planning. There is a possibility of three different locations within our service territory that could support an electrical hydro dam. The hydro dam will provide a total green energy source for our customers. The first step would be to do a feasibility study with North American Hydro to verify positioning of the dam and overall feasibility for this project. The cost of this feasibility study is approximately \$70,000. Although initially this project was included in the top five it was later replaced by the fire station due to the need for a new fire station and longer time required to conduct a study to determine if a hydro dam is really a feasible project.

##### Upgrade of Oconomowoc's Downtown District's Electrical System

This project focuses on replacing all existing 4 KV infrastructure to a 24.9 system. This upgrade would match the downtown to the rest of utility's infrastructure voltage. Infrastructure replacement needed for this project includes 300,000 feet of cable, 513 transformers and upgrading duct packages. The total cost of this project, which includes engineering, equipment, materials, and labor is \$4,600,000.

This upgrade would benefit customers and the City by reducing energy consumption and costs. However, due to the large price tag, the Lead by Example Team did not select this project as a top five finalist.

### Replacement and Upgrade of all Utility Transformers to meet current Department of Energy Requirements

The purpose of this project is to replace all transformers that are more than five years with U.S. Department of Energy regulated transformers to improve cost savings in electrical purchases, improve efficiencies to customers and address our environmental concerns with FR-3 fluid. In 2007, the Utility made it a policy to replace all existing transformers at the end of their life with the Envirotran FR-3 transformers that run on a plant based fluid instead of petroleum products.

The conservation benefits with this type of fluid helps address the concerns we have with faulted transformers in the close proximity of the many lakes, streams and wetlands in our service territory. There are 125 3-phase transformers that should be included in this program. This project was not included in the top five due to the length of implementation time involved and total cost of the project.

### NEV Charging Stations for City of Oconomowoc

This project involves setting up NEV charging stations at three municipal parking lots and a location at the high school. The opportunity is to allow people who are taking advantage of the NEV ordinance to be able to keep their cars charged for appropriate operations.

The total cost including engineering, equipment, materials and labor is \$5,000 per location. This project did not make the top five, however the City is continuing to study this concept.

### Assess City of Oconomowoc Buildings and Install Solar Water Heating Systems in Qualifying Facilities

To proceed, a solar water heating feasibility study is necessary. Research shows that solar water heating yields substantial cost –savings benefits for non-residential facilities. For-profit facilities typically see returns-on-investments (ROIs) of 15% to 25% and non-profits and public facilities see 10% to 15% ROIs. Since the relative benefits of solar water heating will vary by building it will be necessary to conduct a study to determine which buildings make sense to have solar water heating augment conventional water heating systems. Some buildings can also be evaluated for transpired wall collectors, which use solar energy to preheat buildings HVAC makeup air. This might also be included within the scope of the proposed study. The estimated cost for this study is \$7,000. The City of Oconomowoc would then install passive or active solar water heating systems on public buildings as dictated by the study results. Typical costs of non-residential solar installations are \$85 to \$95 per square foot.

This project was not included in the top five due to the need for feasibility study data. As technology improves, this project may be reconsidered in a future plan update.

## Potential Renewable Feedstocks

The Lead by Example Team discussed and considered renewable feedstocks. The consensus was that this was not something that the 25X25 plan should address.

## Existing Unknowns –Necessary Information for the Future

The City of Oconomowoc will continue to collect information from various sources on sustainable building codes. This is a fairly new concept and is constantly changing as new technologies develop and become cost effective.

The City will continue to pursue grants to fund future projects so it is crucial to continue to build an accurate database of information that can be used as a baseline for future grant applications. The City Utilities has also been very proactive at planning long term and working to educate the community to get these projects listed in the City of Oconomowoc's capital improvements plan.

Currently the City of Oconomowoc is purchasing 25% of its electrical load as renewable energy and that percentage of renewable energy is expected to increase in the future.

## Fleet Vehicles and the Future

When the Energy Independent Committee put together our top ten list we did not include any projects specifically related to fleet vehicles or decreasing the amount of gasoline or diesel fuel used within the City. We did not include specific projects related to this topic because within our municipal government our City staff has already begun to implement department related projects related to the reduction in vehicle usage. The goal of reducing our fossil fuel usage by 25% by 2025 is something that each City department is currently working on, awareness of the importance of this goal is now part of our municipal culture.

In 2009 – the public safety department removed one vehicle from the road. This vehicle was replaced with public safety officers on bikes and a motor cycle patrol.

In the spring of 2009, the City Council approved an ordinance allowing for the use of NEVs in the community. As technologies become better the City of Oconomowoc may encourage greater use of neighborhood electric vehicles. In addition, a network of charging stations is a necessary component of encouraging this development. The community supports the growth of neighborhood electric vehicles (NEVs).

In 2010 the Oconomowoc Utilities Lead by Example Team will be conducting a pilot study at a public building within the City to see how often a public charging station is used and which type of charging station residents prefer.

In 2010, the Utilities will be purchasing four NEV's, which will be partially funded by a grant from the Office of Energy Independence and the Clean Cities initiative. The vehicles will be utilized within the City by the utility and the parks departments. These

vehicles will be replacing diesel trucks. The NEV's will be charged with renewable energy purchased through the Utility, therefore creating Oconomowoc's first set of carbon neutral vehicles. Data will be gathered on the reduction of fossil fuel usage and the overall impact on the environment, while the vehicles will be rated on their usability for both the utility and parks departments.

In the City Utilities 2010 budget money has been budgeted to purchase a PHEV (plug in hybrid electric vehicle). This vehicle will be used over the next year as both an educational/outreach tool for the community as well as by members of the Utility and City staff for long trips.

### Action Steps – Immediate & Long-Term

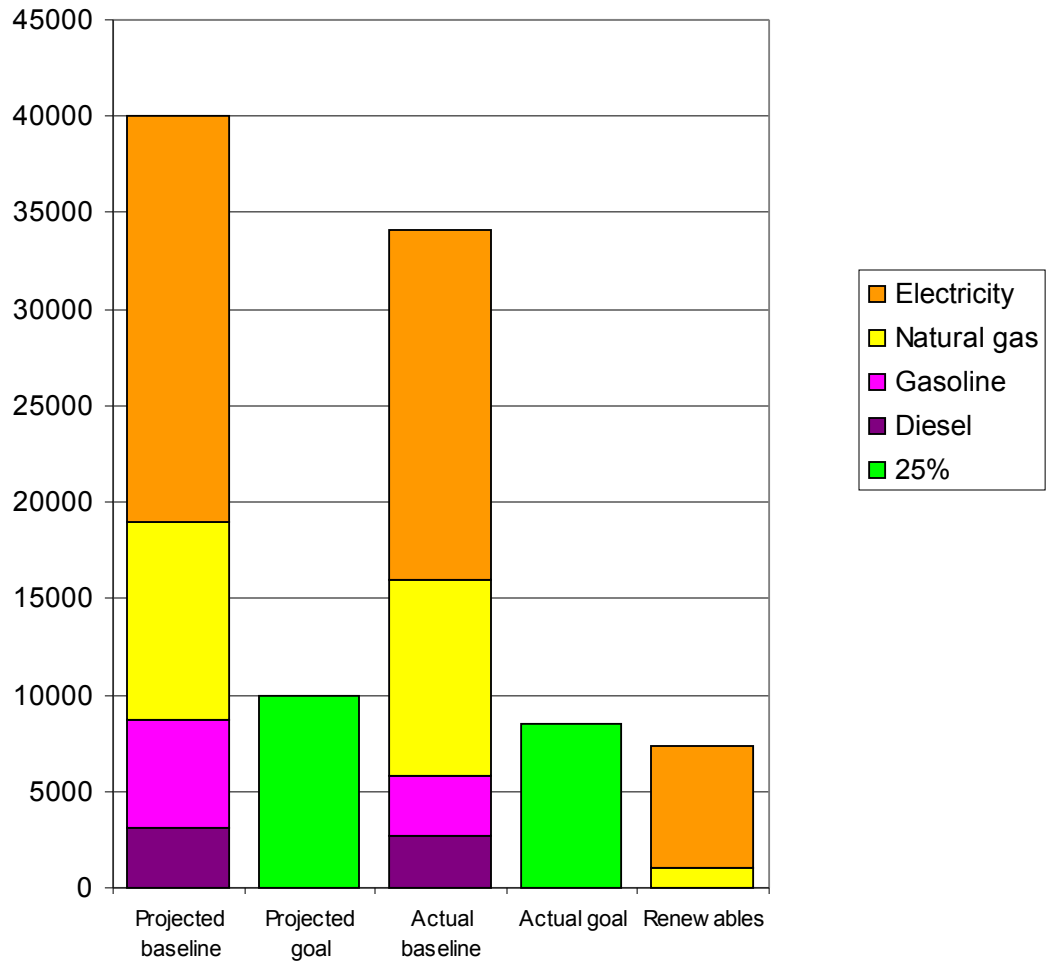
- Educate the public about the benefits of LED lighting by conducting a pilot program on Worthington Street from Wisconsin Ave west within the City by July 2010.
- Incorporate replacement of all street lights with LED lights into the City Capital Improvements Plan in 2010
- Change all city street lights to LED by July 2016
- Include relamping of public library in the City Capital Improvements Plan by 2012
- Complete relamping of City public library building by 2017
- Complete the design and construction of the new city fire station using the principals, which fall under the leadership in energy and environmental design by July 2010.
- to LEED standards with a goal to have in full operation by July 2011
- Provide public educational outreach as codes are being revised to incorporate sustainability.
- Complete sustainability revisions for all codes by January 2014
- Adopt new sustainability ordinance codes by July 2014 and incorporate into City's Comprehensive Plan
- Convert City Hall to geothermal heating and cooling by July 2012 (if funding is received through the EECGB non entitlement block grant, project will be completed by Dec. 31, 2010).

### Action Steps Ongoing

- Proactively seek grants on an ongoing basis to assist with project implementation

- Provide educational outreach to businesses and citizens of the City as new energy technology becomes available.
- Continue to collect and analyze City energy data for buildings and fleet vehicles to add to baseline data and to measure success of reducing energy use and converting to renewable energy sources.
- Review 25x25 Plan every three years and make updates where necessary.
- Average a two percent reduction in energy usage and a 1.5% conversion to renewable energy (green blocks of power) by the business and residential customer each year until 2025.
- Encourage residential and business customers to learn more about and invest in renewable energy projects.
- Encourage new development projects to implement conservation components and technologies.

## 2025 Energy Use



## Energy Independence Committee Members

Since Oconomowoc had a Utilities Lead by Example Team, an EIC (energy independence committee) was formed with key members of the Lead by Example Team and the City of Oconomowoc. The EIC did the research and worked within the municipal government channels to ensure that the projects presented to the Lead by Example team made the most sense within the City of Oconomowoc's culture. Monthly the EIC reported back to the Lead by Example Team sharing findings and listening to feedback. When the time came to choose projects for inclusion in the 25 x 25 plan, the EIC made recommendations and the Lead by Example Team voted. In 2010, the Lead by Example Team will share with the Oconomowoc Common Council the 25 x 25 plan. The members of the EIC are:

Dennis Bednarski, City of Oconomowoc Utilities Operations Manager and Chairperson of the Energy Independence Committee

Jerry Braatz – Waukesha County UW Extension Agent

Robert Duffy, City of Oconomowoc Director of Economic Development

Jason Gallo, City of Oconomowoc Planner and Zoning Administrator

Diane Gard, City of Oconomowoc Administrator

Lisa Geason-Bauer, Owner Evolution Marketing, LLC and Lead by Example Team Coordinator

Greg Hoffmann, Energy Service Representative, WPPI Energy/Oconomowoc Utilities

David Nold, City of Oconomowoc 4<sup>th</sup> District Alderperson and member of the City of Oconomowoc Utilities Committee



APPENDIX A  
DATA SPREADSHEETS

**Oconomowoc sustainability measures**

*Assumptions*

Population growth rate	0.90%
All residential growth will occur in new developments.	
Gallons gasoline (police) 2008	19,202
Gallons gasoline (police) 2025	22,361.26
Change in gallons	3,159.26
Gallons diesel 2008	22,338.00
Gallons diesel 2025	26,013.22
Change in gallons	3,675.22
Percent of diesel to plowing	5%
Percent of diesel to mowing	5%
Percent of diesel to street maintenance	5%
Percent of mowing jobs in outlots	50%
Adoption rate of neighborhood measures	100%
Wastewater kWh 2008	2,159,248.00
Pumping energy 2008	246,783.00
Aggressive adoption rates (% of all households)	10%

Percent of WWTP load from residential 75%

	<i>Energy savings</i>		<i>Non-energy cost savings</i>		<i>Notes</i>	<i>Estimated program costs</i>	<i>Estimated energy savings to municipality</i>
	Owner	Municipality	Owner	Municipality			
Narrower streets	Traffic calming, therefore slower traffic; negligible mileage gains	Less plowing energy, less maintenance	Reduced 1st costs	Reduced 1st costs	Albedo effect of concrete over asphalt would reduce heat island effect; any concerns about reduced parking?	Nontraditional incentives	If 20% narrower, assume 20% less plowing, maintenance fleet fuel consumption for the incremental growth portion
Roundabouts	Less idling	Fewer stoplights	cost increase: extra concrete?	cost increase: extra concrete?	Can be difficult for pedestrians	Nontraditional incentives	Negligible streetlight savings for the incremental growth portion
Mixed-use neighborhoods	Less gas consumption	Reduced maintenance on major roads; reduced public safety fleet use (safer neighborhoods, less patrolling); commercial lighting could supplant streetlight demand; <b>cost increase/decrease:</b> distance to water pumping station			Fewer impervious surfaces (big parking lots) is good for aquifers	Nontraditional incentives	Assume 15% reduction in fleet fuel consumption for the incremental growth portion
Require street grid via block size	Small lots -> more density -> less car commuting; <b>cost increase?</b> Reduced mileage (straight streets > higher speeds)	<b>Cost increases?</b> More streets? (therefore more lights/ maintenance/ plowing)			Quality of life decrease (people like rambling roads)? Grids can create mass transit corridors, but probably doesn't apply at Oconomowoc's size	Nontraditional incentives	Assume no cost decrease/increase
Urban/rural cluster subdivisions							
Bike/pedestrian lanes	Reduced car commuting	Less load on roads, therefore reduced maintenance schedule; <b>Cost increases?</b> Maintenance, lighting of paths.					Assume no cost decrease/increase
Sidewalks between parking lots	Reduced car commuting	<b>Cost increases:</b> maintenance					Assume no cost decrease/increase
Smaller homes	Reduced energy usage per home if energy/sg ft is constant				Reduce Oconomowoc's overall demand; would lots get smaller?		Assume no cost decrease/increase (unless muni benefits from overall lower kW demand)
Planting deciduous trees	Reduced cooling loads	<b>Cost increases:</b> leaf litter collection, trimming (esp. w/ overground power lines)			Deciduous waste could be beneficially reused as biomass		Assume no cost decrease/increase (unless muni benefits from overall lower kW demand)
Limit coniferous trees	Reduced heating loads						Assume no cost decrease/increase

73.50 gal diesel

551.28 gal diesel 473.89 gal unleaded

Solar readiness	"Reduced" costs for installing solar; therefore reduced cost barrier to implementation				Reduce Oconomowoc's overall demand	Assume no cost decrease/increase (unless muni benefits from overall lower kW demand)		
Green roofs	Heating/cooling savings	Reduced stormwater (but no costs attached to this?)		Catastrophic protection – potentially reduced costs from reduced flood damage		How to quantify potential flood damage expenditures? Green roofs are almost always new construction, so any savings apply only for the incremental growth portion		
Rain gardens	Reduced lawn watering	Reduced stormwater (but no costs attached to this?)				Assume no cost decrease/increase		
Water-saving bathroom fixtures	Reduced water usage + reduced water heating	Reduced aggregate water usage			Most of the savings will come from retrofitting existing homes, not improving on new construction	Faucet aerators cause a 10% reduction in faucet water usage. Low-flow showerheads cause a 30% reduction in shower water usage. Faucets and showers account for 1/3 of home water use (roughly 1/6 apiece). Residential water use is \$2.25 per showerhead, \$0.50 per faucet aerator (if door-to-door installation, assume \$25 per visit)	53,441.39 kWh	
Clothesline drying	Reduced electric/gas usage				Make sure CC&Rs can't forbid	Assume no cost decrease/increase (unless muni benefits from overall lower kW demand)		
Deactivate signage at night	Reduced electricity savings to business owner	<b>Cost increase:</b> reduced outdoor night lighting could increase need for street lighting (negligible)				Assume no cost decrease/increase (unless muni benefits from overall lower kW demand)		
Convert outlots to prairie grass		Reduced fleet energy consumption				Reduce associated fleet gas consumption by 50%	558.45 gal diesel	
Community gardens as permitted use					Impacts of non-local food outside of scope	Assume no cost decrease/increase		
Vegetable/fruit gardens in front/back yards					Impacts of non-local food outside of scope	Assume no cost decrease/increase		
Raising chickens/poultry in residential					Impacts of non-local food outside of scope	Assume no cost decrease/increase		
Farmer's markets in all commercial/mixed-use	Reduced errand commuting				Good for local economy (producers)	Assume no cost decrease/increase		
Live/work & accessory units	Reduced commuting				Improves tax base, increases density, reduces new construction (age in place), can provoke "too much density" complaints	Assume no cost decrease/increase		
Reuse of stormwater for non-potable purposes	Reduced water usage	Reduced aggregate water usage			No graywater standard to reference	Considerable expense to develop/adopt graywater standards + need equipment, infrastructure to support those standards	Reduce 25% of domestic water supply	4,627.18 kWh

58,068.57 kWh 0.94%  
1,183.24 gal diesel 0.00%  
473.89 gal unleaded 1.05%

**Measures**

	<b>Name</b>	<b>Savings-to-investment ratio</b>	<b>Savings</b>	<b>Installed cost before incentives</b>	<b>Incentive amounts</b>	<b>Present value cost with incentives</b>	<b>lbs CO2</b>	
10%	Wisconsin RPS	--	1818 kWh	--	--	--	3,076	
5138	Purchased renewable electricity	4.28	1541400 kWh	\$ 30,828.00	--	\$ 360,379.32	2,608,049	
On	Public library relamping	1.15	63928 kWh	\$ 68,884.00	\$ -	\$ 68,884.00	108,166	
On	LED streetlight relamping	0.56	714976 kWh	\$ 1,096,542.00	\$ -	\$ 973,729.30	1,209,739	
On	Geothermal at City Hall	1.76	10489 therms	\$ 100,000.00	\$ -	\$ 100,000.00	122,805	
On	New fire station	#DIV/0!	1968 therms	\$ -	\$ -	\$ -	23,041	
On	Municipal guidelines	0.64	58100 kWh	\$ 10,000.00	\$ -	\$ 8,152.50	98,305	
On	Vehicle mileage reductions	1111122.23	19656 gallons unleaded	\$ 1.00	\$ -	\$ 1.00	384,078	
On	NEV adoption	0.03	2761 gallons diesel	\$ 68,375.00	\$ -	\$ 68,375.00	61,764	
				<b>Total:</b>	\$ 1,374,630.00	\$ -	\$ 1,579,521.12	4,619,024
				<b>Baseline lbs CO2:</b>	13,741,640			
				<b>New lbs CO2:</b>	9,122,616			
				<b>Reduction:</b>	34%			

# Energy Independent Communities

## Baseline Assessment

### Oconomowoc

Using data collected by Oconomowoc about its municipal energy usage, the Energy Center of Wisconsin has calculated their **current energy use** baseline. From this baseline, we have estimated Oconomowoc's **2025 energy use baseline** and **25x25 goals**.

These calculations are dependent on Oconomowoc's estimate of its growth rate for municipal energy usage, as explained on the following tab.

In order to determine Oconomowoc's 2025 municipal energy use baseline, we need to estimate the rate at which we can expect municipal energy usage to grow.

This value will differ for every community.

Possible values are listed below. To run this baseline tool, please select one of those values, or determine your own, and enter it (as a percent) into the green box.

- 0.9% Oconomowoc's estimated population growth rate
- 0.5% Population growth rate discounted by percent of energy attributable to buildings
- 3.8% Annual growth rate of Oconomowoc's municipal energy usage, 2006 to 2008

(As a way to perform a reality check on your estimate, an annual growth rate of 4.2% would mean doubling your energy consumption by 2025.)

Once you have entered a growth rate, please proceed to the next tab.

Your 2008 energy usage baseline is **40,002** million (MM) Btus.

That baseline is comprised of 6,165,493 kWh,  
102,882 therms,  
44,935 gallons of gasoline,  
and 22,338 gallons of diesel.

By assuming an annual growth rate of **0.00%** ,  
in 2025 your energy use baseline will be **40,002** MMBtu.

***You must enter a growth rate on  
the Growth Rate tab before  
proceeding.***

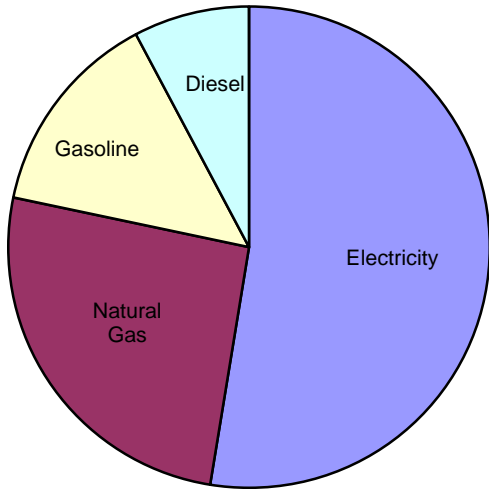
Your 25% energy reduction goal  
for 2025 is therefore **10,000** MMBtu,  
or 25% of your 2008 consumption.

This translates into 2,930,962 kWh or  
therms or  
80,649 gallons gas or  
71,946 gallons diesel or  
some combination  
of those fuels.

# Oconomowoc 2008 Energy Baseline: Additional Info

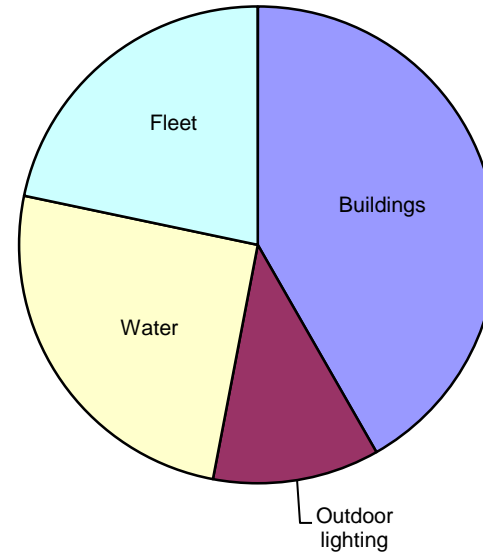
## Total Consumption by Energy Type

<i>Energy type</i>	<i>Percent of total Btus</i>
Electricity	53%
Natural Gas	26%
Gasoline	14%
Diesel	8%



## Total Consumption by End Use

<i>Energy end use</i>	<i>Percent of total Btus</i>
Buildings	42%
Infrastructure	37%
Lighting	11%
Water	25%
Fleet	22%





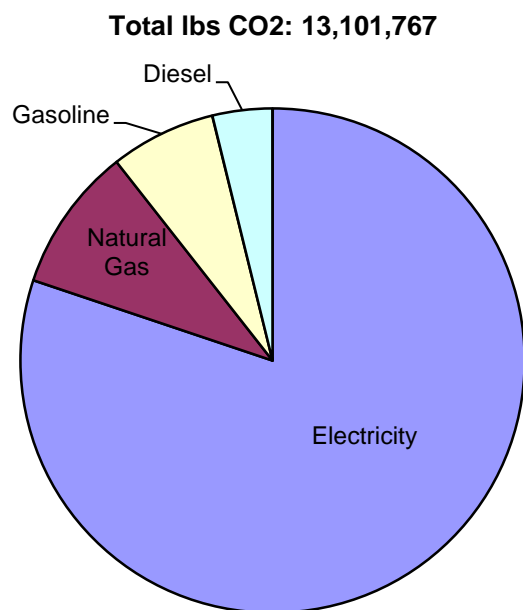
# Oconomowoc 2008 Energy Baseline: Additional Info

## Total CO2 Emissions by Energy Type

<i>Energy type</i>	<i>Percent of total CO2</i>
Electricity	80%
Natural Gas	9%
Gasoline	7%
Diesel	4%

## Energy Intensity of Selected Buildings

	<i>kWh/ft3</i>	<i>therm/ft3</i>
Wastewater Treatment Facility	0.0	0.0
Utility Shop	34.5	0.5
Library and City Hall COMBINED	6.6	0.5



Type of energy consumed	Data			07-08 increase	06-08 increase
	Sum of 2006 total	Sum of 2007 total	Sum of 2008 total		
electric \$ (inc. tax, fees)	166738.89	231113.81	265099.98	15%	59%
heating \$ (inc. tax, fees)	69228.60461	65331.76	81170.42777	24%	17%
kW	0	0	0		
kWh	2275904	2622730	2684867	2%	18%
natural gas (therms)	67464.58176	64037.90615	75321.06001	18%	12%
Grand Total	2579336.076	2983213.476	3106458.468		

**Note:** Contains some interpolated results. See comments on Buildings spreadsheet.

	Data					
Types of energy consumed	Sum of 2006 total	Sum of 2007 total	Sum of 2008 total	06-07	07-08	06-08
electric \$ (inc. tax, fees)	201041.77	213887.07	231456.23	6%	8%	15%
kW	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!
kWh	1368661	1423324	1321198	4%	-8%	-4%
Grand Total	1569702.77	1637211.07	1552654.23			

Types of energy consumed	Data			06-07	07-08	06-08
	Sum of 2006 total	Sum of 2007 total	Sum of 2008 total			
electric \$ (inc. tax, fees)	141176.13	133134.24	156789.48	-6%	18%	11%
heating \$ (inc. tax, fees)	26727.04	27354.63	29568.87			
kW	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!
kWh	1952642	2088640	2159428	7%	3%	11%
natural gas (therms)	38495.03709	42427.75862	27561	10%	-35%	-28%
Grand Total	2159040.207	2291556.629	2373347.35			

**Note:** Contains data added by ECW based on its interpretation of data supplied. See comment on related spreadsheet.

	2006	2007	2008	06-08 change	07-08 change
Gasoline	40,923	44,766	44,935	10%	0%
Diesel	16,747	22,124	22,338	33%	1%

**Energy use by year**

		2006	2007	2008
kWh	Buildings	2,275,904	2,622,730	2,684,867
	Infrastructure	3,321,303	3,511,964	3,480,626
Therms	Buildings	67,465	64,038	75,321
	Infrastructure	38,495	42,428	27,561
Gasoline	Vehicles	40,923	44,766	44,935
Diesel	Vehicles	16,747	22,124	22,338
Dollars	Buildings	235,967	296,446	346,270
	Infrastructure	201,042	201,042	201,042
	Gasoline	107,996	127,628	146,489
	Diesel	46,959	66,814	87,340
<i>MMBtus</i>		<i>37,096</i>	<i>40,204</i>	<i>40,002</i>

**Annual changes in MMBtu consumption**

% growth	2006	2007	2008
2006 --		8%	8%
2007	--		-1%
2008		--	

**2008 energy use baseline in MMBtus**

	energy consumption of given type	in MMBtus	% of total	in lbs CO2	
kWh	6,165,493	21,037	53%	10,432,014	80%
Therms	102,882	10,288	26%	1,204,543	9%
Gasoline	44,935	5,572	14%	878,038	7%
Diesel	22,338	3,105	8%	499,690	4%
Dollars	781,141				
<i>Totals</i>		<i>40,002</i>		<i>13,014,285</i>	

**2008 energy use baseline by end use**

	MMBtu	
Buildings	16,693	42%
Outdoor lighting	4,508	11%
Water	10,124	25%
Fleet	8,677	22%
<i>Total</i>	<i>40,002</i>	<i>100%</i>

Building information			Utility billing data		Monthly data				
Building ID	Building name/purpose	Building area (square feet)	Type of energy consumed	Name of utility	Jan-06	Feb-06	Mar-06	Apr-06	May-06
OC-001	Wastewater Treatment Facility	9,500	kWh	Oconomowoc Utilities	142,458	144,379	135,962	155,865	147,617
			kW						
			electric \$ (inc. tax, fees)		\$13,042	\$12,484	\$10,791	\$12,850	\$11,507
			natural gas (therms)		3,832.4	3,522.1	3,460.5	2,448.6	1,570.2
			heating \$ (inc. tax, fees)		\$4,140.53	\$3,843.40	\$3,798.25	\$2,669.21	\$1,764.24
OC-002	Rec Center		kWh	Oconomowoc Utilities	6,792	6,332	5,170	5,968	8,522
			kW						
			electric \$ (inc. tax, fees)		\$691	\$658	\$507	\$590	\$786
			natural gas (therms)		1,109	858	907	696	630
			heating \$ (inc. tax, fees)		\$1,216.21	\$938.84	\$996.71	\$753.83	\$643.12
OC-003	Dept of Public Works		kWh	Oconomowoc Utilities	9,348	11,459	8,887	7,318	7,179
			kW						
			electric \$ (inc. tax, fees)		\$896	\$1,074	\$757	\$692	\$707
			natural gas (therms)		1,809	1,596	2,092	1,212	194
			heating \$ (inc. tax, fees)		\$1,954.69	\$1,741.83	\$2,296.52	\$1,320.84	\$218.09
OC-004	Utility Shop	40,455	kWh	Oconomowoc Utilities	107,704	131,880	103,615	88,783	95,752
			kW						
			electric \$ (inc. tax, fees)		\$9,099	\$10,566	\$7,752	\$7,379	\$7,215
			natural gas (therms)		2634.4747	3,465	2,436	2006	1,696
			heating \$ (inc. tax, fees)		\$2,846.26	\$3,704.30	\$2,623.92	\$1,840.51	\$1,760.91
OC-005	Library and City Hall COMBINED		kWh	Oconomowoc Utilities	52,673	61,057	52,985	52,882	54,078
			kW						
			electric \$ (inc. tax, fees)		\$3,805	\$4,230	\$3,237	\$3,992	\$3,751
			natural gas (therms)		5,636	6,642	4,719	2,640	1,579
			heating \$ (inc. tax, fees)		\$5,883.80	\$7,122.20	\$5,082.57	\$2,796.22	\$1,585.51
OC-006	Fire Dept	9,558	kWh	Oconomowoc Utilities	5,983	6,189	4,569	5,387	5,661
			kW						
			electric \$ (inc. tax, fees)		\$581.00	\$591.00	\$397.00	\$505.00	\$475.00
			natural gas (therms)		604	732	501	228	18
			heating \$ (inc. tax, fees)		\$664.72	\$826.67	\$569.80	\$257.18	\$25.76
				OC-001	FALSE	FALSE	FALSE	FALSE	FALSE
				OC-002	\$1.10	\$1.09	\$1.10	\$1.08	\$1.02

Building information													
Building ID	Building name/purpose	Building area (square feet)	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	2006 total	Jan-07	Feb-07	
OC-001	Wastewater Treatment Facility	9,500	171,457	136,344	148,862	132,366	151,937	147,864	138,232		158,550	141,757	
			\$14,975	\$11,201	\$8,264	\$7,280	\$7,846	\$7,855	\$7,179		\$8,971	\$7,123	
			1,133.9	532.1	514.8	469.1	1,516.8	2,183.4	3,487.2		3,061.7	5,186.2	
			\$1,193.63	\$966.46	\$794.81	\$996.30	\$1,174.84	\$1,784.34	\$3,601.03		\$3,189.22	\$5,436.20	
OC-002	Rec Center		7,912	8,968	9,321	7,213	8,872	6,220	6,940	88,230	88,230	7,963	7,453
											0		
			\$789	\$818	\$741	\$546	\$644	\$494	\$535	\$66	\$669	\$552	
			258	42	25	9	441	838	1,080	6893	1,150	1,245	
			\$271.91	\$89.38	\$46.33	\$33.04	\$350.93	\$638.78	\$1,106.20	\$7,085	\$1,195.49	\$1,294.12	
OC-003	Dept of Public Works		8,777	9,864	9,257	7,445	7,885	7,154	8,737	103,310	103,310	10,020	12,208
											0		
			\$890	\$938	721.01	546.72	563.26	545.5	645.17	\$8,976	\$812	\$855	
			49	14	17	12	136	703	1,679	9,514	1,423	3,077	
			\$51.89	\$25.50	\$26.35	\$25.50	\$105.42	\$574.73	\$1,733.32	\$10,074.68	\$1,482.62	\$3,224.85	
OC-004	Utility Shop	40,455	106,172	117,897	115,404	90,211	103,854	94,991	102,573	1,258,836	1,258,836	119,895	148,246
											0		
			\$8,503	\$8,318	\$9,228	\$7,350	\$8,483	\$7,752	\$8,461	\$100,106	\$10,898	\$10,995	
			530	158	65	29	799	1,221	2,761	17,801	2,913	4,299	
			\$503.78	\$192.88	\$81.68	\$51.48	\$590.34	\$982.19	\$2,796.11	\$17,974	\$2,978.96	\$4,423.88	
OC-005	Library and City Hall COMBINED		77,187	81,433	77,660	63,360	56,040	58,530	67,950	755,835	755,835	74,693	62,175
											0		
			\$5,359	\$5,479	\$5,494	\$4,275	\$3,813	\$4,009	\$4,257	\$51,702	\$5,174	\$5,033	
			355	45	76	95	1,991	2,044	4,271	30,093	4,336	6,681	
			\$373.70	\$89.94	\$115.64	\$133.93	\$1,448.39	\$1,666.47	\$4,348.96	\$30,647	\$4,439.07	\$6,904.75	
OC-006	Fire Dept	9,558	6,218	7,477	7,223	5,838	5,549	4,481	5,118	69,693	69,693	6,146	6,538
			\$585.00	\$622.00	\$564.00	\$430.00	\$401.00	\$350.00	\$388.00	\$5,889.00	\$507.00	\$469.00	
			28	39	105	32	90	212	574	3163	586	1,008	
			\$27.05	\$74.81	\$67.94	\$52.46	\$75.26	\$188.04	\$617.27	\$3,447	\$633.27	\$1,099.57	
			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	
			FALSE	\$2.13	\$1.85	\$3.67	\$0.80	\$0.76	\$1.02	\$1.03	\$1.04	\$1.04	



Building information												
Building ID	Building name/purpose	Building area (square feet)	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07
OC-001	Wastewater Treatment Facility	9,500	136,209	160,744	151,104	135,182	168,147	167,927	180,017	163,921	157,458	145,640
			\$6,802	\$9,354	\$8,493	\$8,998	\$10,980	\$10,410	\$13,030	\$11,503	\$9,693	\$8,840
			4,039.9	3,721.9	1,740.0	1,028	927	936	1,011	1,060	1,377	3,730
			\$4,229.46	\$3,712.87	\$1,899.71	\$846.79	\$777.67	\$749.20	\$784.99	\$845.18	\$1,195.73	\$3,687.61
OC-002	Rec Center		4,891	6,953	10,480	10,235	10,532	10,366	8,016	8,907	6,630	7,861
			\$373	\$581	\$837	\$902	\$942	\$882	\$791	\$902	\$637	\$720
			1,231	778	617	226	192	16	22	235	401	1,157
			\$1,284.99	\$776.87	\$553.66	\$206.42	\$182.45	\$36.97	\$42.04	\$207.00	\$365.41	\$1,163.79
OC-003	Dept of Public Works		9,074	8,603	8,058	8,282	9,852	9,341	8,042	7,817	7,609	11,785
			\$630	\$691	\$638	\$720	\$863	\$779	\$772	\$776	\$698	\$1,023
			2,196	1,107	312	10	0	0	0	13	196	2,257
			\$2,298.88	\$1,104.54	\$341.02	\$25.50	\$25.50	\$26.35	\$25.50	\$34.71	\$191.34	\$2,242.76
OC-004	Utility Shop	40,455	104,371	90,436	109,384	126,736	152,877	114,299	81,808	103,682	90,918	123,210
			\$8,561	\$8,885	\$9,834	\$12,052	\$13,847	\$10,238	\$9,150	\$11,749	\$10,317	\$12,008
			3,041	1,779	495	103	183	46	203	315	804	3,403
			\$3,127.94	\$1,737.69	\$443.94	\$110.14	\$172.01	\$60.83	\$179.88	\$271.43	\$725.75	\$3,393.17
OC-005	Library and City Hall COMBINED		83,501	44,251	71,778	104,685	124,771	122,187	96,552	100,998	6,345	83,456
			\$4,611	\$3,692	\$5,382	\$7,988	\$9,361	\$8,631	\$8,371	\$8,723	\$5,491	\$6,044
			3,460	3178	85	33	257	68	299	718	1248	4719
			\$3,568.48	\$3,097.88	\$120.40	\$309.08	\$285.06	\$102.28	\$279.33	\$612.84	\$1,143.88	\$4,729.62
OC-006	Fire Dept	9,558	5,096	5,198	5,451	5,504	6,969	6,576	5,964	6,216	5,134	5,706
			\$364.00	\$426.00	\$437.00	\$485.00	\$615.00	\$553.00	\$576.00	\$618.00	\$477.00	\$510.00
			567	295	28	30	5	27	5	25	145	790
			\$614.54	\$306.84	\$32.38	\$33.87	\$11.54	\$29.71	\$12.04	\$28.28	\$143.08	\$835.57
			FALSE	FALSE	FALSE	0.8237257	0.8389105	0.8004274	0.7764491	0.7973396	0.8683588	0.9886354
			\$1.04	\$1.00	\$0.90	\$0.91	\$0.95	\$2.31	\$1.91	\$0.88	\$0.91	\$1.01

Building information												
Building ID	Building name/purpose	Building area (square feet)	2007 total	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
OC-001	Wastewater Treatment Facility	9,500		165,973	141,729	142,837	172,379	151,180	164,499	171,795	141,750	156,252
				\$9,528	\$9,460	\$9,642	\$12,488	\$10,045	\$12,330	\$13,007	\$11,302	\$11,792
				4,930	4,999	4,466	3,809	1,934	1,463	852	502	610
				\$5,108.63	\$5,308.36	\$4,762.58	\$3,981.63	\$2,086.32	\$1,720.24	\$1,090.53	\$625.20	\$701.92
OC-002	Rec Center		100,287	7,709	9,608	5,691	6,592	6,446	9,393	9,410	8,580	7,386
			0									
			\$8,786	\$706	\$933	\$599	\$678	\$685	\$961	\$1,007	\$943	\$804
			7270	1,289	1,396	1,137	824	595	323	65	25	30
			\$7,309	\$1,358.21	\$1,502.14	\$1,229.24	\$881.09	\$660.13	\$404.70	\$105.71	\$17	\$87.99
OC-003	Dept of Public Works		110,691	9,769	15,642	10,819	8,442	7,821	8,844	8,136	8,059	7,913
			0									
			\$9,255	\$858	\$1,447	\$1,007	\$911	\$689	\$897	\$847	\$847	\$804
			10,591	2,868	2,983	2,586	1,979	598	52	1	0	0
			\$11,023.57	\$2,984.01	\$3,177.54	\$2,768.11	\$2,081.75	\$682.12	\$85.74	\$29.30	\$23.80	\$25.50
OC-004	Utility Shop	40,455	1,365,862	106,630	166,385	105,062	114,614	107,804	113,121	106,879	130,240	120,759
			0									
			\$128,534	\$11,037	\$15,805	\$11,537	\$12,712	\$11,617	\$12,937	\$11,765	\$13,886	\$13,353
			17584	3,008	5,464	3,178	1,923	931	471	190	180	333
			\$17,626	\$3,134.85	\$5,843.31	\$3,368.53	\$2,022.59	\$1,026.04	\$582.88	\$261.53	\$240.80	\$390.83
OC-005	Library and City Hall COMBINED		975,392	62,553	88,931	56,408	80,288	83,785	110,807	107,315	116,924	99,153
			0									
			\$78,502	\$5,068	\$6,735	\$4,769	\$7,350	\$7,074	\$9,564	\$9,678	\$10,422	\$8,849
			25082	5326	4998	5984	1100	2012	321	1142	162	119
			\$25,593	\$5,557.42	\$5,370.53	\$6,348.37	\$1,167.88	\$2,214.43	\$431.89	\$1,478.80	\$239.11	\$182.15
OC-006	Fire Dept	9,558	70,498	5,308	7,485	4,158	5,266	4,243	4,980	5,674	5,808	5,730
			\$6,037.00	\$482.00	\$709.00	\$392.00	\$568.00	\$407.00	\$539.00	\$608.00	\$630.00	\$600.00
			3511	1,020	955	698	351	149	16	29	14	26
			\$3,781	\$1,117.56	\$1,070.03	\$775.10	\$390.00	\$176.13	\$27.93	\$46.47	\$25.25	\$38.08
			2.7167176	1.0362333	1.0618844	1.0664084	1.0453216	1.078759	1.1758305	1.2799648	1.2454183	1.1506885
			\$1.01	\$1.05	\$1.08	\$1.08	\$1.07	\$1.11	\$1.25	\$1.63	FALSE	\$2.93

Building information												
Building ID	Building name/purpose	Building area (square feet)	Oct-08	Nov-08	Dec-08	2008 total	2006 energy intensity kWh	2006 energy intensity therms	2007 energy intensity kWh	2007 energy intensity therms	2008 energy intensity kWh	2008 energy intensity therms
OC-001	Wastewater Treatment Facility	9,500	170,276	144,250	189,745		0	0	0	0	0	0
			\$11,744	\$8,471	\$12,350							
			714	816	2,466							
			\$729.35	\$789.11	\$2,665.00							
OC-002	Rec Center		6,904	6,884	6,579	91,182	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
						0						
			\$1,448	\$642	\$703	\$10,108						
			203	445	1,071	7403						
			\$220.46	\$441.94	\$1,172.59	\$8,081						
OC-003	Dept of Public Works		7,323	9,472	13,546	115,786	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
						0						
			\$722	\$809	\$1,296	\$11,134						
			45	282	2,004	13,398						
			\$70.66	\$288.84	\$2,171.14	\$14,388.51						
OC-004	Utility Shop	40,455	98,848	108,115	118,656	1,397,113	31.11694	0.440022	33.7625	0.434656	34.53499	0.519862
						0						
			\$11,370	\$10,924	\$13,159	\$150,102						
			505	1,376	3,472	21,031						
			\$508.37	\$1,346.00	\$3,726.36	\$22,452						
OC-005	Library and City Hall COMBINED		66,926	75,928	68,877	1,017,895	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
						0						
			\$6,517	\$5,467	\$5,914	\$87,407						
			160	2513	5302	29139						
			\$201.05	\$2,467.76	\$5,702.07	\$31,361						
OC-006	Fire Dept	9,558	4,704	4,340	5,195	62,891	7.291588	0.330964	7.375811	0.367336	6.579933	0.455116
			\$485.00	\$399.00	\$530.00	\$6,349.00						
			58	119	915	4,350						
			\$65.99	\$128.13	\$1,026.40	\$4,887						
			1.0214986	0.9670466	1.0806975	1.0728519						
			\$1.09	\$0.99	\$1.09	\$1.09						

Building information				
Building ID	Building name/purpose	Building area (square feet)		
				0
OC-001	Wastewater Treatment Facility	9,500		
				#DIV/0!
OC-002	Rec Center			
OC-003	Dept of Public Works			
				0.16982
OC-004	Utility Shop	40,455		
OC-005	Library and City Hall COMBINED			
				0.067962
OC-006	Fire Dept	9,558		

Building information			Utility billing data		Monthly data				
Building ID	Building name/purpose	Building area (square feet)	Type of energy consumed	Name of utility	Jan-06	Feb-06	Mar-06	Apr-06	May-06
				OC-003	FALSE	FALSE	FALSE	FALSE	FALSE
				OC-004	FALSE	1.069062	1.0771429	FALSE	1.0382724
				OC-005	\$1.04	\$1.07	\$1.08	\$1.06	\$1.00
				OC-006	\$1.10	\$1.13	\$1.14	\$1.13	\$1.43
				<i>Average</i>	\$1.08	\$1.09	\$1.10	\$1.09	\$1.12
OC-007			kWh						
			kW						
			electric \$ (inc. tax, fees)						
			Select a heating fuel						
			heating \$ (inc. tax, fees)						
OC-008		31,920	kWh						
			kW						
			electric \$ (inc. tax, fees)						
			Select a heating fuel						
			heating \$ (inc. tax, fees)						
OC-009			kWh						
			kW						
			electric \$ (inc. tax, fees)						
			Select a heating fuel						
			heating \$ (inc. tax, fees)						
OC-010	Library (Part 1 of Library & City Hall) GAS ONLY	24,110	kWh						
			kW						
			electric \$ (inc. tax, fees)						
			Select a heating fuel						
			heating \$ (inc. tax, fees)						
	\$3,622.66	\$4,123.90	\$3,058.52	\$1,712.47	\$1,474.03				
OC-011	City Hall (Part 2 of Library & City Hall) GAS ONLY	31,956	kWh						
			kW						
			electric \$ (inc. tax, fees)						
			Select a heating fuel						
			heating \$ (inc. tax, fees)						
	\$2,261.14	\$2,998.30	\$2,024.05	\$1,083.75	\$111.48				

Building information													
Building ID	Building name/purpose	Building area (square feet)	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	2006 total	Jan-07	Feb-07	
			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	
			FALSE	1.2207595	1.2566154	1.7751724	0.7388486	0.8044144	1.0127164	1.23753523	1.0226433	1.0290486	
			\$1.05	\$2.00	\$1.52	\$1.41	\$0.73	\$0.82	\$1.02	\$1.02	\$1.02	\$1.03	
			FALSE	\$1.92	FALSE	\$1.64	\$0.84	\$0.89	\$1.08	\$1.11	\$1.08	\$1.09	
			\$1.05	\$1.82	\$1.54	\$2.12	\$0.77	\$0.82	\$1.03	\$1.10	\$1.04	\$1.05	
OC-007										0			
										0			
											\$0		
											0		
											\$0		
OC-008		31,920								0			
										0			
											\$0		
											0		
											\$0		
OC-009										0			
										0			
											\$0		
											0		
											\$0		
OC-010	Library (Part 1 of Library & City Hall) GAS ONLY	24,110								0			
										0			
											\$0		
				230	31	67	57	1,321	1,477	2,695	19,157	2,906	3,566
				\$233.89	\$52.92	\$82.36	\$74.91	\$949.38	\$1,201.92	\$2,737.69	\$19,325	\$2,965.65	\$3,690.28
OC-011	City Hall (Part 2 of Library & City Hall) GAS ONLY	31,956								0			
										0			
											\$0		
				125	14	9	38	670	567	1,576	10936	1,430	3,115
				\$139.81	\$37.02	\$33.28	\$59.02	\$499.01	\$464.55	\$1,611.27	\$11,323	\$1,473.42	\$3,214.47

Building information												
Building ID	Building name/purpose	Building area (square feet)	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07
			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	2.67	0.9762245	0.9936907
			1.0285893	0.9767791	0.8968485	1.0693204	0.9399454	1.3223913	0.8861084	0.8616825	0.9026741	0.9971114
			\$1.03	\$0.97	\$1.42	\$9.37	\$1.11	\$1.50	\$0.93	\$0.85	\$0.92	\$1.00
			\$1.08	\$1.04	\$1.16	\$1.13	\$2.31	\$1.10	\$2.41	\$1.13	\$0.99	\$1.06
			\$1.05	\$1.00	\$1.09	\$2.66	\$1.23	\$1.41	\$1.38	\$1.20	\$0.93	\$1.01
OC-007												
OC-008		31,920										
OC-009												
OC-010	Library (Part 1 of Library & City Hall) GAS ONLY	24,110	2,307	2,076	17		245	61	253	551	926	2,987
			\$2,367.23	\$2,015.46	\$38.15	\$255.31	\$249.90	\$72.26	\$217.53	\$457.36	\$837.16	\$2,987.67
OC-011	City Hall (Part 2 of Library & City Hall) GAS ONLY	31,956	1,153	1,102	68	33	12	7	46	167	322	1,732
			\$1,201.25	\$1,082.42	\$82.25	\$53.77	\$35.16	\$30.02	\$61.80	\$155.48	\$306.72	\$1,741.95

Building information													
Building ID	Building name/purpose	Building area (square feet)	2007 total	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	
			4.470223	1.0404498	1.0652162	1.0704215	1.0519202	1.1406689	1.6488462	FALSE	FALSE	FALSE	
			1.0023669	1.0421709	1.0694198	1.0599528	1.0517889	1.1020838	1.2375372	1.3764737	1.3377778	1.1736637	
			\$1.02	\$1.04	\$1.07	\$1.06	\$1.06	\$1.10	\$1.35	\$1.29	\$1.48	\$1.53	
			\$1.08	\$1.10	\$1.12	\$1.11	\$1.11	\$1.18	\$1.75	\$1.60	\$1.80	\$1.46	
			\$1.88	\$1.05	\$1.08	\$1.07	\$1.07	\$1.12	\$1.40	\$1.44	\$1.47	\$1.65	
OC-007			0										
			0										
			\$0										
			0										
			\$0										
OC-008		31,920	0										
			0										
			\$0										
			0										
			\$0										
OC-009			0										
			0										
			\$0										
			0										
			\$0										
OC-010	Library (Part 1 of Library & City Hall) GAS ONLY	24,110	0										
			0										
			\$0										
			15895	3,254	2,643	3,922		1,619	229	1,116	148	105	
			\$16,154	\$3,388.79	\$2,839.65	\$4,151.56		\$1,766.09	\$297.51	\$1,418.32	\$198.81	\$140.45	
OC-011	City Hall (Part 2 of Library & City Hall) GAS ONLY	31,956	0										
			0										
			\$0										
			9187	2,072	2,355	2,062	1,100	393	92	26	14	14	
			\$9,439	\$2,168.63	\$2,530.88	\$2,196.81	\$1,167.88	\$448.34	\$134.38	\$60.48	\$40.30	\$41.70	



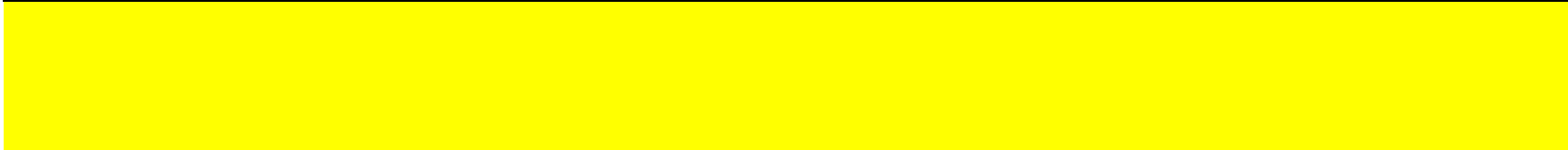
Building information													
Building ID	Building name/purpose	Building area (square feet)	Oct-08	Nov-08	Dec-08	2008 total	2006 energy intensity kWh	2006 energy intensity therms	2007 energy intensity kWh	2007 energy intensity therms	2008 energy intensity kWh	2008 energy intensity therms	
			1.5702222	1.0242553	1.0834032	1.0739297							
			1.0066733	0.9781977	1.0732604	1.0675712							
			\$1.26	\$0.98	\$1.08	\$1.08							
			\$1.14	\$1.08	\$1.12	\$1.12							
			\$1.18	\$1.00	\$1.09	\$1.08							
OC-007						0							
						0							
						\$0							
						0							
						\$0							
OC-008		31,920				0							
						0							
						\$0							
						0							
						\$0							
OC-009						0							
						0							
						\$0							
						0							
						\$0							
OC-010	Library (Part 1 of Library & City Hall) GAS ONLY	24,110				0		0.794567		0.65927		0.738075	
						0							
						\$0							
						17	1,690	3,052	17,795				
						\$40.81	\$1,652.80	\$3,277.65	\$19,172				
OC-011	City Hall (Part 2 of Library & City Hall) GAS ONLY	31,956				0		0.342221		0.287489		0.354988	
						0							
						\$0							
						143	823	2,250	11,344				
						\$160.24	\$814.96	\$2,424.42	\$12,189				

Building information				
Building ID	Building name/purpose	Building area (square feet)		
OC-007				
OC-008		31,920		
OC-009				
				0.073808
OC-010	<b>Library (Part 1 of Library &amp; City Hall) GAS ONLY</b>	24,110		
				0.035499
OC-011	<b>City Hall (Part 2 of Library &amp; City Hall) GAS ONLY</b>	31,956		

<b>2008 total</b>	2006 therm total	2007 therm total	2008 therm total	06-07 increase	07-08 increase	06-08 increase
22.0	13,824.0	14,609.0	7,472.0	6%	-49%	-46%
\$167.60						
521.0						
\$675.21						
0.0						
\$0.00						
10.0						
\$101.06						
179.0						
\$297.68						
0.0						
\$0.00						
6.0						
\$107.70						
6.0						
\$108.25						
0.0						
\$0.00						
0.0						
\$0.00						
0.0						
\$0.00						
0.0						
\$0.00						
0.0						
\$106.70						
0.0						
\$0.00						
24.0						
\$128.64						
2.0						
\$103.87						
368.0						

<b>\$3,102.28</b>
<b>10.0</b>
<b>\$112.74</b>
<b>4,776.0</b>
<b>\$5,420.23</b>
<b>8.0</b>
<b>\$106.96</b>
<b>1,303.0</b>
<b>\$1,531.92</b>
<b>220.0</b>
<b>\$345.34</b>
<b>4.0</b>
<b>\$101.92</b>
<b>13.0</b>
<b>\$114.65</b>
<b>0.0</b>
<b>\$0.00</b>

Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	2008 total
141,729	142,837	172,379	151,180	164,499	171,795	141,750	156,252	170,276	144,250	189,745	1,912,665
											0
\$9,460	\$9,642	\$12,488	\$10,045	\$12,330	\$13,007	\$11,302	\$11,792	\$11,744	\$8,471	\$12,350	132,159
4,999	4,466	3,809	1,934	1,463	852	502	610	714	816	2,466	27,561
\$5,308.36	\$4,762.58	\$3,981.63	\$2,086.32	\$1,720.24	\$1,090.53	\$625.20	\$701.92	\$729.35	\$789.11	\$2,665.00	29,569
28,412	25,160	23,936	24,242	17,887	17,501	14,813	15,837	16,883	18,795	22,204	246,763
											0
2,933.00	2,008.00	2,543.00	2,070.00	2,257.00	1,853.00	1,623.00	1,626.00	1,526.00	1,599.00	2,452.00	24,630



Facility Name	Station Description, Number of Large Motors, Etc.	Average Pumping Per Month (1 M Gallons)	Average Pumping Per Month (1 M Gallons)	Average Pumping Per Month (1 M Gallons)	3 Year Average of Monthly Pumping ( 1 M Gallons )
		2006	2007	2008	
Well 7	This station has 1 Well Pump and 2 Booster Station Motors (3 - 75 HP Motors Total)	17.177	24.049	24.402	21.876
Well 4	Well Motor (75 HP)	6.018	6.915	5.100	6.011
Well 6	Well Motor (125 HP)	8.965	9.044	8.325	8.778
Booster Station	This station houses: Well # 3 (data below) and 3 Booster Pumps @ 100 HP each (data to right for average monthly pumping)	24.001	17.215	18.608	19.941
Well 3	Well Motor ( 75 HP )	11.131	7.630	7.973	8.911
Power House Well 1	Station houses Well # 1 Well Motor ( 20 HP )	4.862	3.441	3.429	3.911
Well 2	Well Motor ( 75 HP )	8.561	5.809	6.679	7.016

Lighting information			Monthly data				
Lighting ID	Type	Utility monthly cost per pole (if applicable)	Jan-06	Feb-06	Mar-06	Apr-06	May-06
			148,081	141,939	104,482	97,086	95,659
OC-L01	Street / Traffic Lights		\$19,427	\$18,918	\$15,687	\$15,883	\$15,302
			640	800	640	2,160	3,920
OC-L02	Baseball Field		\$188	\$196	\$19	\$262	\$333

**Lighting information**

Lighting ID	Type	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06
		85,456	88,232	91,699	107,366	127,731	119,223
OC-L01	Street / Traffic Lights	\$15,752	\$15,231	\$15,577	\$15,792	\$16,510	\$16,646
		6,480	5,520	7,840	5,040	2,080	960
OC-L02	Baseball Field	\$522	\$425	\$554	\$383	\$243	\$198



**Lighting information**

Lighting ID	Type	Dec-06	2006 total	Jan-07	Feb-07	Mar-07	Apr-07
		125,147	1,332,101	151,658	139,907	112,177	95,721
	Street / Traffic		0				
OC-L01	Lights	\$16,818	\$197,545	\$19,250	\$17,124	\$15,700	\$16,019
		480	36,560	480	400	400	1,840
			0				
OC-L02	Baseball Field	\$174	\$3,497	\$178	\$169	\$168	\$250

**Lighting information**

Lighting ID	Type	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07
		95,961	87,717	84,603	89,878	93,548	126,920
OC-L01	Street / Traffic Lights	\$15,888	\$16,193	\$16,134	\$16,144	\$17,466	\$20,117
		6,320	5,920	6,560	4,320	4,080	2,800
OC-L02	Baseball Field	\$480	\$506	\$554	\$397	\$432	\$282

**Lighting information**

Lighting ID	Type	Nov-07	Dec-07	2007 total	Jan-08	Feb-08	Mar-08
		117,237	193,597	1,388,924	120,913	148,923	109,464
	Street / Traffic			0			
OC-L01	Lights	\$18,830	\$21,254	\$210,119	\$18,659	\$20,620	\$18,855
		720	560	34,400	960	880	400
				0			
OC-L02	Baseball Field	\$180	\$172	\$3,768	\$186	\$189	\$168

**Lighting information**

Lighting ID	Type	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
		114,838	87,983	75,835	73,126	82,444	112,721
OC-L01	Street / Traffic Lights	\$19,977	\$17,864	\$17,957	\$17,990	\$18,598	\$19,791
		244	6,080	4,880	5,200	6,560	2,880
OC-L02	Baseball Field	\$164	\$405	\$393	\$421	\$498	\$293

**Lighting information**

Lighting ID	Type	Oct-08	Nov-08	Dec-08	2008 total
		104,235	135,035	123,917	1,289,434
	Street / Traffic				0
OC-L01	Lights	\$19,029	\$18,829	\$19,957	\$228,125
		2,160	960	560	31,764
					0
OC-L02	Baseball Field	\$250	\$184	\$180	\$3,331

**Police Fleet information**

	2006	2007	2008
Total gasoline purchases (gallons)	19,031	18,710	19,202
Total diesel purchases (gallons)	0	0	0
Total number of plug-in electric vehicles in operation	0	0	0

Vehicle type/ category	Make	Model	Number of vehicles of this model	Total miles traveled 2006	Total miles traveled 2007	Total miles traveled 2008	Fuel type	Total gallons per year
Auto (squad)	Ford	Crown Victoria	7	209,700			Gas	18,317
SUV (squad)	Ford	Explorer	1	7,700			Gas	533
Boat	Wellcraft		1	N/A			Gas	180
Auto (squad)	Ford	Crown Victoria	7		198,300		Gas	17,122
SUV (squad)	Ford	Expedition	1		12,500		Gas	1,408
Boat	Wellcraft		1		N/A		Gas	180
Auto (squad)	Ford	Crown Victoria	7			213,500	Gas	17,037
SUV (squad)	Ford	Expedition	1			12,500	Gas	949
Boat	Wellcraft		1			N/A	Gas	182
Auto (squad)	Dodge	Charger	1				Gas	1,035

Greg - This is what I came up with. Since we do squad change over in March and don't keep most squads that long, I had to take certain figures and average them (based on years in use and mileage at time of auction) to come up with the numbers. Is this what you need?

Lt. Jeffrey A. Schmidt  
 City of Oconomowoc Police Department  
 174 E. Wisconsin Ave.  
 Oconomowoc, WI 53066

(262)567-4401  
 (262)569-3240 (FAX)  
[ltjs@charterinternet.com](mailto:ltjs@charterinternet.com)

Fire Fleet information

	2007	2008	2009 EST
Total gasoline purchases (gallons)	1,231	1,552	725
Total diesel purchases (gallons)	3,523	3,675	4,900
Total number of plug-in electric vehicles in operation			

Vehicle type/ category	Make	Model	Number of vehicles of this model	Total miles traveled 2006	Total miles traveled 2007	Total miles traveled 2008	Fuel type	Total gallons per year
	4771	PIERCE	Aerial Plat	1			DIESEL	253
	4762	PIERCE	PUMPER	1			DIESEL	331
	4761	PIERCE	RESQ PUMP	1			DIESEL	378
	3692	FORD	TANKER	1			DIESEL	78
	4751 / 4752	NAVISTAR	AMBO	2			DIESEL	1144
	4753	FORD	AMBO	1			DIESEL	179
	4781	FORD	GRASS RIG	1			DIESEL	128
	4787	GMC	PICKUP	1			GAS	561
	4786	FORD	EXPLORER	1			GAS	588
	4789	FORD	DIVE VAN	1			DIESEL	47
	4785	FORD	EXPEDITION	1			GAS	740

Gregg,

Attached please find the 2007 and 2008 fuel records, and an estimate for 2009 based on 2009 YTD and averaged to '06 and '07. ( We do not have the 2006 info). The "Total gallons per year" are an average of '07, '08 and '09. We do not track mileage as all our vehicles spend extended times idling at emergency scenes. Let me know if you need any other info.

Glenn R. Leidel

Deputy Fire Chief

Oconomowoc Fire Department

Station: (262)-569-3223 Direct:-3295 Cell: (262)-893-1518

**DPW Fleet information**

	<b>2006</b>	<b>2007</b>	<b>2008</b>	
Total gasoline purchases (gallons)	37,031	40,030	42,016	D = Diesel
Total diesel purchases (gallons)	12,001	27,525	28,016	U = Unleaded
Total number of plug-in electric vehicles in operation				

**DPW**

<b>Vehicle type/ category</b>	<b>Make</b>	<b>Model</b>	<b>Number of vehicles of this model</b>	<b>Total gallons - 2006</b>	<b>Total gallons - 2007</b>	<b>Total gallons - 2008</b>	<b>Fuel type</b>
Tandem	Freightliner	2005		382	1,007	1,269	D
Lake Weed Unloader		2004		46	57	38	U
Dump	GMC	1982		235	352	319	U
Dump	GMC	1980		860	999	853	U
Tractor	IHC	1968		18	56	30	U
Dump	GMC	1976		123	141	112	U
Elgin Street Sweeper		1994		694	310	387	D
5 yd Dump	Sterling	2004		227	687	854	D
5 yd Dump	Sterling	2007		319	805	665	U
5 yd Dump	Sterling	2006		176	537	481	U
Dump	GMC	1979		175	329	405	U
Lake Weed Barge				5	27	10	D
3/4 Ton p/u	GMC	1991		999	1,453	1,084	U
pick up	Dodge Dakota	1992		62	87	130	U
pick up	Chevy 3/4 ton	2004		743	817	805	U
Loader FR12	Fiat Allis	1986		399	862	1,175	D
Whirlwind	Elgin	2007		2,059	2,244	2,118	D
Lake Weed Harvester		2004		462	361	316	D
5 yd Dump	IHC	1979		167	346	230	D
5 yd Dump	Ford	1990		171	679	546	D
5 yd Dump	Ford	1985		287	554	795	D
5 yd Dump	Ford	1980		177	55	147	D
5 yd Dump	Ford	1981		45	141	145	D
5 yd Dump	IHC	1990		189	702	823	D
Klauer Sno-Go snowblower		1984		29	155	181	D
Grader	Dresser	1987		197	513	640	D
Loader/BckH	John Deere	1990		36	51	59	D
Tractor	Massey Ferguson	1992		225	209	183	D
Flatbed	Ford	1984		299	195	106	U



Ram 150 Van	Dodge	1992	289	286	330	U
Skidsteer	Bobcat	2006	51	81	187	U
Litter Getter			20	19	?	U
5 yd Dump	Ford	1995	465	709	750	D
5 yd Dump	IHC	2000	429	977	1,201	D
5 yd Dump	Freightliner	2002	254	647	726	D
1 ton Dump	GMC	2003	395	654	749	U
Weed Barge	Aquarius	2004	174	217	97	D

**Parks Fleet information**

			2006	2007	2008		
<u>Total gasoline purchases (gallons)</u>							
<u>Total diesel purchases (gallons)</u>							
<u>Total number of plug-in electric vehicles in Parks</u>						D = Diesel U = Unleaded	
Vehicle type/ category	Make	Model	Number of vehicles of this model	Total gallons - 2006	Total gallons - 2007	Total gallons - 2008	Fuel type
Mower w/wings	Toro	2005		810	717	308	D
Loader	Cat	938B	2001	851	1389	1643	D
3/4 ton p/u	GMC	1991		373	244	255	U
Mower	Toro	2007		0	67	492	U
Truck w/bucket	Ford	1988		558	418	396	U
Mower/sno blwr	Hustler	1990		150	415	93	U
1 ton w/box	GMC	1992		957	885	779	U
4x4 Wrangler	Jeep	1998		165	250	200	U
1 ton dump	GMC	1990		283	273	402	U
3/4 p/u	GMC	1992		94	125	110	U
Mower w/blwr	Hustler	1988		115	185	258	U
Tractor	John Deere	1979		88	459	70	D
Wood Chipper	ermeer	125	1991	312	242	180	D
3/4 ton p/u	GMC	1995		538	640	738	U
3/4 ton p/u	GMC	1997		320	471	653	U
Kabota w/broom		1999		162	161	157	D
pick up	Cheby	2004		399	373	501	U
Loader/Tractor	Case			138	149	98	D



# GASOLINE PURCHASES

## Gallons per Month by Card #

Crd #	Veh #	Type U/D	Gallons per Month												Total by Card	% of Total	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	120	D		132.9	23.00	9.00			26.20	60.90	23.10		12.20	2.00	93.10	382.40	0.7%
2	135	U						4.50	3.80	8.60	18.80	10.40				46.10	0.1%
3	136	U	25.80	14.20	39.80	39.90	43.20	12.70		15.80			20.50		23.80	235.70	0.4%
4	137	U				17.30	15.00	16.00		30.90			13.50			92.70	0.2%
5	139	U	112.60	82.00	115.80	108.30	86.90	52.90	61.80			13.00	107.30	47.30	72.40	860.30	1.5%
6	140	U										18.20				18.20	0.0%
7	142	U				12.50	35.80	34.80	19.40	20.80						123.30	0.2%
8	143	U						12.00								12.00	0.0%
9	145	D	101.50			77.70	100.70	90.20	84.70	68.20			109.90	36.90	24.40	694.20	1.2%
10	148	D	35.80	94.20	16.20								30.80	50.30		227.30	0.4%
11	149	U				18.00	27.70	62.00	32.60	38.80	22.80	31.30	34.60	51.20		319.00	0.6%
12	153	U	26.00		37.50						14.50		35.50	62.50		176.00	0.3%
13	155	U	27.30				28.50	49.90	28.10	27.20		14.00				175.00	0.3%
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	169	D			5.00											5.00	0.0%
16	171	U	102.80	67.40	68.80	90.60	86.30	69.50	95.70	97.70	72.80	102.30	71.20	74.60		999.70	1.7%
17	173	U					6.50	9.10	11.00	19.30	10.20	5.80				61.90	0.1%
18	183	U														0.00	0.0%
19	184	U	76.70	22.00	88.90	40.00	87.50	81.20	44.50	78.40	48.20	75.30	43.80	56.00		742.50	1.3%
20	193	U	3.00					6.10			5.00					14.10	0.0%
21	194	U														0.00	0.0%
22	199	D				29.90	139.80	164.50	122.70	96.30	127.80	84.50	38.60	6.40		810.50	1.4%
23	146	D	41.50	185.60	16.90	32.70	64.00	19.60	112.40	58.70	36.70	67.80	68.50	146.40		850.80	1.5%
24	15	D	60.30	58.90	46.50	38.60	27.90	12.60		25.90			31.40	97.40		399.50	0.7%
25	16	D	140.30		248.10	145.10	142.70	125.70	50.00	94.10	278.40	495.20	195.60	143.70		2,058.90	3.6%
26	17	D						57.40	122.40	161.50	120.80					462.10	0.8%
27	138	D	27.50	56.50				26.70	26.10			30.00				166.80	0.3%
28	150	D	66.70	90.20					13.90							170.80	0.3%
29	151	D	19.00	76.40	33.60			24.30	28.60	21.00	17.30		28.70	37.60		286.50	0.5%
30	152	D	49.20	54.20	1.60	32.10			3.10		1.00		1.10	35.00		177.30	0.3%
31	154	D												44.50		44.50	0.1%
32	158	D	20.80	108.10	10.40				20.70				1.00	28.10		189.10	0.3%
33	6B	D		28.50										0.90		29.40	0.1%
34	18	D	50.00	74.60										72.00		196.60	0.3%
35	19	D			14.70				11.80				9.40			35.90	0.1%
36	110	U	3.20	3.00	3.40			2.50			2.20	2.70		0.20		17.20	0.0%
37	115	D					56.90	48.10	65.10	54.70						224.80	0.4%
38	170	U		47.30		23.60	16.50		83.70	57.00	27.20		16.70	26.50		298.50	0.5%
39	101	U	34.70	19.90	20.00	20.30	17.40	38.40	20.00	45.30	18.00	38.10	16.50			288.60	0.5%
40	2	U		5.90	4.00		5.00	3.30			4.20	18.50				40.90	0.1%
41	228	U														0.00	0.0%
42	72	U		20.00	20.50	20.00	60.30	40.00	65.50	66.20	20.00	40.00		20.00		372.50	0.6%
43	74	U														0.00	0.0%
44	75	U	73.70	50.10	55.10	13.00			76.80	55.30	43.00	37.70	44.90	41.00	67.00	557.60	1.0%

45	76	D	1.50	10.90	5.20	4.00	29.50	18.70		36.20	26.20	9.00		8.50	149.70	0.3%
46	81	U	56.90	58.60	66.60	70.50	109.90	116.10	105.80	110.70	76.70	74.80	57.80	52.70	957.10	1.7%
47	82	U													0.00	0.0%
48	85	U		28.10			9.40	40.70	31.70	29.50			11.30	14.00	164.70	0.3%
49	91	U	45.70	19.10	28.80		16.30	32.10	15.50	13.60	32.60	32.30	17.00	30.10	283.10	0.5%
50	95	U						45.00	29.00	20.00					94.00	0.2%
51	202	U	39.90	49.40	32.30		31.70	47.90	47.70	51.70	16.10	33.00	32.00	36.70	418.40	0.7%
52	208	U	11.80	22.00				10.20	9.10	10.70	34.20			16.50	114.50	0.2%
53	209	D				24.70			12.50	20.00		19.30	11.60		88.10	0.2%
54	210	D			7.80	6.00									13.80	0.0%
55	204	D	38.40	28.10	29.10		12.50	48.50	30.40	12.80	22.10	29.80	29.30	31.40	312.40	0.5%
56	205	D	39.70	13.00			16.40	16.90	8.80	15.40	13.00			14.70	137.90	0.2%
57	317	D	72.30		50.00	132.30	68.00	164.90	150.40	193.90	185.60	159.80	119.70	100.00	1,396.90	2.4%
58	318	U									11.60				11.60	0.0%
59	319	U	20.40	24.70	21.30	38.90	18.10		9.90				9.30		142.60	0.2%
60	387	U	17.90		18.40		11.90	48.00	42.70	62.50			24.30	15.40	241.10	0.4%
61	304	D				12.10	26.20	35.60	18.30	26.60	11.60	6.90			137.30	0.2%
62	320	U					29.80	44.50	34.00	17.00	32.00	16.60	20.20		194.10	0.3%
63	620	U	391.80	325.30	446.50	342.10	224.80	361.40	327.20	171.30	205.10	188.20	114.10	169.80	3,267.60	5.7%
64	624	U	435.40	433.30	253.90	305.10	450.40	474.10	454.40	477.10	408.00	488.60	368.00	374.90	4,923.20	8.5%
65	626	U	442.30	282.00	433.70	397.10	427.40	318.90	454.30	450.00	406.50	494.30	295.90	367.10	4,769.50	8.3%
66	623	U	25.50	22.00	54.60	32.60	75.60	180.40	173.00	203.20	136.40	46.70	46.40	26.10	1,022.50	1.8%
67	622	U	26.20	82.30	40.00	47.60	73.50	26.10	43.50	77.00	20.80	41.50	29.60	25.30	533.40	0.9%
68	628	U	22.50	32.40	43.00	25.80	19.40	44.70	65.80	59.50	74.30	92.40	65.40	54.70	599.90	1.0%
69	621	U	14.60	56.60	54.70	29.00	117.80	54.50	70.00	134.40	36.80	76.20	22.00	49.80	716.40	1.2%
70	901	D	19.80		47.00	25.40	21.00	35.40	27.00	19.40	20.70	43.80	41.10	48.40	349.00	0.6%
71	902	D	10.00	21.70	31.70	14.10	29.40	24.50	18.00	96.80	15.70	26.50	43.50	24.50	356.40	0.6%
72	903	D	11.50	38.50	27.80	29.90	21.20	55.60	43.00	48.70	54.30	30.70	30.60	27.20	419.00	0.7%
73	905	D													0.00	0.0%
74	915	D	107.50	145.90	125.20	142.70	158.40	157.30	195.40	190.20	152.40	160.90	156.40	148.70	1,841.00	3.2%
75	916	D											16.50		16.50	0.0%
76	900	D													0.00	0.0%
77	910	U	33.70	44.40	36.70	44.80	35.90	59.00	33.60	44.40	60.00	46.00	51.50	49.40	539.40	0.9%
78	917	D	39.50	26.70	21.00	19.10	15.30	45.30	18.50	38.60	19.50	28.30	17.90	18.80	308.50	0.5%
79	907	D		23.10	11.40	14.70		8.30	7.40		12.10	4.70	8.60	14.60	104.90	0.2%
80	908	U	55.00	57.10	61.00	48.10	38.10	42.20	42.60	56.20	52.90	56.50	42.80	58.30	610.80	1.1%
81	906	U													0.00	0.0%
82	919	U			19.30	10.20				7.80					37.30	0.1%
83	909	U													0.00	0.0%
84	401	U	22.80	25.70	27.20		27.90	32.80	21.80	54.00		53.30	31.60	27.00	324.10	0.6%
85	3	U	87.60	28.60	48.80					48.40	33.60	67.10			314.10	0.5%
86	4	U	20.00	40.00	20.00	40.10	16.00	43.00	40.00	59.20	35.90	40.00	40.00	19.80	414.00	0.7%
87	5	U	63.30	108.40	118.30	79.00	83.70	67.10	47.50	98.30	77.50	39.80	33.80	76.00	892.70	1.5%
88	7	U	74.90	58.50	97.30	77.50	75.10	92.40	56.20	80.40	79.70	77.60	58.10	73.90	901.60	1.6%
89	8	U		6.10	20.00	20.00			20.00	20.00	31.90		20.00		138.00	0.2%
90	411	U	23.30	55.60	20.40	37.10	39.70	39.40	35.90	67.30	55.90	55.60	28.10	37.40	495.70	0.9%
91	413	U	73.10	70.20	104.80	88.40	47.00	41.50	31.40	51.00	48.40	34.40	32.50	51.80	674.50	1.2%
92	414	D	28.90	25.10	37.20	96.70	22.10	76.80	18.50	31.30	66.40	21.80	43.90		468.70	0.8%
93	402	D				15.40	62.00	65.90	33.10	63.70	25.10	91.20	45.90	86.30	488.60	0.8%

94	437	D													0.00	0.0%
95	442	U	6.20				1.10	2.50		4.20		5.90			19.90	0.0%
96	443	D													0.00	0.0%
97	444	U								11.40					11.40	0.0%
98	406	U	108.10	65.30	61.70	37.40	55.30	61.20	58.10	51.10	64.90	72.50	22.80	2.00	660.40	1.1%
99	448	U													0.00	0.0%
100	418	D	15.50	20.70	22.40	46.20		39.70	27.20		24.50				196.20	0.3%
101	932	D	34.70	34.80	14.60	5.10					18.20				107.40	0.2%
102	417	U	17.20		33.20	16.00		26.80	14.00	16.50	15.20	22.90	20.30		182.10	0.3%
103	9	U		44.30	39.50	44.50	52.90	22.70	1.00	24.20	45.70	67.20	1.00	21.10	364.10	0.6%
104	10	U	129.00	131.30	104.70	106.00	117.20	121.00	129.00	131.80	111.10	136.00	86.70	89.10	1,392.90	2.4%
105	12	U	62.30	49.50	85.50	47.60	96.30	104.50	50.90	30.00	39.80	63.10	46.80	46.60	722.90	1.3%
106	102	U										7.90	2.90	9.00	19.80	0.0%
109	105	U			2.80					3.80		1.70			8.30	0.0%
107	103	U													0.00	0.0%
108	104	U							15.10	3.90					19.00	0.0%
110	206	U													0.00	0.0%
111	207	U				7.70	9.10	7.70		4.70					29.20	0.1%
112	108	U													0.00	0.0%
113	836	U													0.00	0.0%
114	836	U													0.00	0.0%
115	625	U	253.70	295.60	242.40	302.30	189.60	136.00	281.60	301.60	240.30	267.10	215.90	291.90	3,018.00	5.2%
116	121	U	18.00	48.00	49.40	30.40	34.00	29.70	51.00	33.50	31.90	35.50	17.20	27.00	405.60	0.7%
117	124	U				13.30	16.50	14.00		19.90		1.00	20.00		84.70	0.1%
118	2	U	235.40	160.80	143.40	28.40	38.90	61.90	33.10	40.20	89.90	64.20	67.20		963.40	1.7%
119	449	D		5.10		4.50			4.00		4.00				17.60	0.0%
120	157	D	97.40	119.00	39.30	27.10	30.00	21.90	25.90		24.00			80.40	465.00	0.8%
121	92	U	67.20	40.00	43.50	44.30	43.10	44.60	54.60	61.50	17.60	56.20	20.00	45.30	537.90	0.9%
122	90	U	29.20	11.00	20.60	17.40	40.00	41.40	20.00	16.80	49.20	20.00	21.00	33.20	319.80	0.6%
123	77	D				6.70		6.90	2.30	4.30		2.40	3.70		26.30	0.0%
124	78	D	11.40	19.60	13.30	20.10	9.80		10.90		20.00	11.60	30.50	14.70	161.90	0.3%
125	156	D	81.50	181.70	40.10				38.00					88.00	429.30	0.7%
126	79	U	12.90	5.00	3.00			4.00	1.80			2.00		3.90	32.60	0.1%
127	80	U			2.60	14.10	17.10	16.60	15.50	14.10		2.00			82.00	0.1%
128	22	U	74.80	53.00	96.10	71.40	66.60	78.90	61.30	76.60	74.20	90.10	50.00	72.50	865.50	1.5%
129	86	U	14.80						27.20						42.00	0.1%
130	147	D	57.10	108.90										88.40	254.40	0.4%
131	16	U	20.00	35	40	40	40	64.5	20	54.2	37.9	41.3	29.4	64.1	486.40	0.8%
132	141	U	17.20	59.7		8.2	54.9	52.1	75.7	46.3	25.8		15.5	39.7	395.10	0.7%
133	56	D		11.4	10.7	46.7		24.3	23	10.2	23.1	10.2	15.8		175.40	0.3%
134	34	D						58.1	19.9	60.7	35.2				173.90	0.3%
135	23	U										32.5			32.50	0.1%
136	419	D	29.00	51.4	91.8	90.7	88.2	80.7	92.1	50.2	44.1	44	20.1	56.2	738.50	1.3%
137	25	U	35.10	56.6	21.2	32.9	57.2	46.4	67.8	73	73.8	74.2	21.2	21.6	581.00	1.0%
138	96	U	25.00	40.8	9.5	48.2	24.5	25	50	47.1	35.8	25	42.8	25	398.70	0.7%
TOTAL GALS			4,924.80	5,203.80	4,562.10	4,196.80	4,567.00	5,298.50	5,378.10	5,642.70	#####	5,186.30	3,518.00	4,540.20	57,669.90	
% OF TOTAL			9%	9%	8%	7%	8%	9%	9%	10%	8%	9%	6%	8%	100%	
D Total Diese			1,308.30	1,845.70	1,041.60	1,149.30	1,142.00	1,563.70	1,555.10	1,515.90	#####	1,513.50	1,062.60	1,647.10	16,747.00	



# GASOLINE PURCHASES

## Gallons per Month by Card #

Crđ #	Veh #	Type U/D	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total by Card	% of Total
1	120	D	72.80	25	230.70	27.30	109.50	84.90	12.00	42.70	69.80	17.60	16.00	299.00	1,007.30	1.5%
2	135	U					5.20	12.50	12.30	16.40	11.30				57.70	0.1%
3	136	U	10.60	13.40	30.10	28.30	13.10	42.00	38.40	78.60	11.50	38.10	38.80	9.40	352.30	0.5%
4	137	U					18.10		17.80			17.30	14.00		67.20	0.1%
5	139	U	98.90	80.50	139.40	134.90	106.90	66.60	111.40	61.40	41.70	66.40	91.60		999.70	1.5%
6	140	U					11.90		11.80			13.30	19.90		56.90	0.1%
7	142	U				19.70	34.10	7.40	20.70	26.50	22.20	10.20			140.80	0.2%
8	143	U													0.00	0.0%
9	145	D					27.90					128.30	153.30		309.50	0.5%
10	148	D	116.50	34.00	193.50								36.10	306.60	686.70	1.0%
11	149	U	139.40	46.80	175.40	28.40	15.40	13.90	31.50	4.80	9.20	7.10	15.10	318.10	805.10	1.2%
12	153	U	65.10	80.60	141.30	12.40					15.00		4.10	218.00	536.50	0.8%
13	155	U	11.20		65.80	32.20	14.40	15.70	33.50	37.90	16.30	53.20	49.20		329.40	0.5%
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	169	D				9.80						11.90			21.70	0.0%
16	171	U	102.30	67.60	376.68	75.00	119.80	88.10	95.40	107.10	100.00	110.30	87.70	122.90	1,452.88	2.2%
17	173	U				7.70	8.50	8.80	17.30	9.60	9.10	19.00	7.10		87.10	0.1%
18	183	U													0.00	0.0%
19	184	U	78.80	44.20	95.30	72.30	63.20	67.20	79.60	76.10	71.50	59.30	96.20	13.30	817.00	1.2%
20	193	U					4.40					5.10			9.50	0.0%
21	194	U													0.00	0.0%
22	199	D	34.90	46.40	25.90	34.30	159.80	148.40	46.50	100.40	63.20	16.50	7.40	33.30	717.00	1.1%
23	146	D	118.30	104.30	335.40	23.20	128.00	76.30	32.80	37.70	113.10	35.00	33.70	350.70	1,388.50	2.1%
24	15	D	177.20	44.40	157.30	24.90	36.50	19.20			30.00	18.70	35.90	317.60	861.70	1.3%
25	16	D		0.90	215.30	289.20	231.30	204.90	256.00	292.70	302.60	204.10	246.90		2,243.90	3.4%
26	17	D					10.50	74.80	115.70	111.00	44.50	4.60			361.10	0.5%
27	138	D	66.10		39.60			49.90		23.00	31.90			135.10	345.60	0.5%
28	150	D	118.60	41.80	130.50		35.00	35.90	24.30		57.80			234.90	678.80	1.0%
29	151	D	80.50	31.90	171.50						47.20		7.40	215.60	554.10	0.8%
30	152	D				28.00			15.30		10.60	1.60			55.50	0.1%
31	154	D					24.90	13.50	58.30		21.70	14.30	8.00		140.70	0.2%
32	158	D	76.40	70.50	186.10	8.80		38.90			30.60		35.00	255.20	701.50	1.0%
33	6B	D	9.90		96.20									49.20	155.30	0.2%
34	18	D	57.00	72.10	158.00									225.90	513.00	0.8%
35	19	D			18.60			16.10				16.00			50.70	0.1%
36	110	U				0.60	3.40	3.60	2.70		3.50	6.10	5.30		25.20	0.0%
37	115	D					35.30	49.10	38.20		64.00	22.50			209.10	0.3%
38	170	U		40.70				29.90	24.50	43.90	20.10		18.40	17.20	194.70	0.3%
39	101	U	20.00	34.70	32.10		20.00	46.00	23.80	36.50	18.90	18.60	18.10	17.70	286.40	0.4%
40	2	U	13.70	10.30	14.60		11.70			13.00		17.20			80.50	0.1%
41	228	U												37.20	37.20	0.1%
42	72	U		34.60		20.00	20.00	29.20	46.10	46.90	27.60			20.00	244.40	0.4%
43	74	U											69.30		69.30	0.1%
44	75	U	68.10		60.50	15.00	23.00	58.60	50.10	35.00		27.10	55.90	25.00	418.30	0.6%



45	76	D	19.10	5.10	17.50		62.20	36.20	3.50	83.80	87.40	76.40		24.10	415.30	0.6%
46	81	U	50.60	32.70	40.90	88.10	98.70	94.60	105.70	121.00	76.50	70.50	68.00	37.60	884.90	1.3%
47	82	U													0.00	0.0%
48	85	U		48.70	21.20		13.70	14.50	46.60	44.80	12.10	14.10		34.40	250.10	0.4%
49	91	U	26.70	13.80	15.00	16.10		30.50	15.70	35.30		13.50	28.60	77.40	272.60	0.4%
50	95	U					3.90		27.20	25.10	20.00	47.10	1.30		124.60	0.2%
51	202	U	37.60	25.30	66.00	27.40	65.70	39.90	48.90	53.10	18.30	18.70	55.50	109.30	565.70	0.8%
52	208	U	35.30	13.10	40.90			4.30			3.60	1.90		85.70	184.80	0.3%
53	209	D			10.20	18.90	29.50	11.50		3.10	21.40	23.60	11.20		129.40	0.2%
54	210	D			2.10										2.10	0.0%
55	204	D	32.30	15.90	16.50	16.50		25.90	34.40	33.30	7.30	13.20	30.50	16.40	242.20	0.4%
56	205	D	14.50		41.60			15.90	14.90		13.90		13.30	34.90	149.00	0.2%
57	317	D	70.00	50.00	162.20	50.00	123.00	127.40	100.00	170.00	100.00	192.30	116.70	50.00	1,311.60	2.0%
58	318	U													0.00	0.0%
59	319	U					9.30	6.70	5.30		5.30		4.90	4.10	35.60	0.1%
60	387	U	32.10	11.00	32.50	17.50	41.80	61.40	63.30	34.30	65.10		17.20	46.10	422.30	0.6%
61	304	D				5.60	39.60	15.30	27.00	45.00	38.00	14.60			185.10	0.3%
62	320	U	35.60	16.90	34.30	30.10	42.90	53.70	38.70	32.70	39.60	37.00	28.40	15.40	405.30	0.6%
63	620	U	256.00	150.80	236.00	160.40	287.00	395.50	392.70	339.00	357.90	388.20	338.50	425.80	3,727.80	5.6%
64	624	U	452.20	333.40	401.60	326.10	463.50	372.30	310.60	414.50	310.80	356.80	427.00	391.20	4,560.00	6.8%
65	626	U	499.90	321.80	559.30	406.00	342.00	311.40	268.60	349.20	335.60	287.90	261.40	317.40	4,260.50	6.4%
66	623	U	21.00	7.70	40.90	24.00	86.80	213.20	154.60	121.10	86.00	36.70	6.10	23.80	821.90	1.2%
67	622	U	38.10	23.30	96.50	74.30	79.80	152.90	121.00	150.80	230.10	127.60	116.80	196.80	1,408.00	2.1%
68	628	U	66.40	45.80	68.10	101.50	66.00	52.20	52.40	90.90	52.70	97.60	49.90	52.00	795.50	1.2%
69	621	U	68.20	9.90	98.80	65.60	56.10	32.10	61.20	89.00	87.80	62.70	40.30	24.10	695.80	1.0%
70	901	D	22.30		21.10	31.50	18.20	42.60	15.30		33.80	25.60			210.40	0.3%
71	902	D	15.40	34.00	13.50	28.40	34.30	33.50	11.00	30.70	28.30	26.00	10.10	20.90	286.10	0.4%
72	903	D	6.40		42.30	31.60	25.30	38.90	41.00	31.10	30.50	39.90	16.50	14.30	317.80	0.5%
73	905	D					11.70	8.20	6.50			14.70	9.30		50.40	0.1%
74	915	D	146.20	137.10	189.80	117.10	201.60	166.30	206.30	190.60	189.90	150.40	165.80	43.30	1,904.40	2.8%
75	916	D											193.30		193.30	0.3%
76	900	D													0.00	0.0%
77	910	U	35.20	41.30	63.00	68.40	49.70	40.50	46.50	53.90	64.00	34.00	82.20	76.50	655.20	1.0%
78	917	D		20.30	20.10	40.90	25.00	15.30	36.80	62.60	40.00	53.00	17.50	24.50	356.00	0.5%
79	907	D		19.70	29.30	8.20	8.30	21.70	13.30	8.40	7.10		9.70	33.20	158.90	0.2%
80	908	U	55.10	38.80	49.30	40.20	51.20	60.00	30.90	40.80	47.40	44.80	47.50	70.80	576.80	0.9%
81	906	U													0.00	0.0%
82	919	U		14.00			9.80			20.90		19.90		15.20	79.80	0.1%
83	909	U													0.00	0.0%
84	401	U	29.00	28.30	31.90	22.50	25.30	49.20	50.30	53.90	55.70	78.40	57.10	30.40	512.00	0.8%
85	3	U		32.00	67.60						37.50		29.30	26.50	192.90	0.3%
86	4	U	37.80	38.60	40.00	38.10	59.80	20.00	38.00	58.40	19.70	20.00	39.00	20.00	429.40	0.6%
87	5	U	55.20	58.30	65.40	65.70	72.10	45.40	81.80	74.10	62.60	52.10	46.40	76.30	755.40	1.1%
88	7	U	97.50	40.40	98.90	59.40	101.40	134.60	104.80	119.00	117.00	120.10	101.40	69.20	1,163.70	1.7%
89	8	U	15.30		20.00	20.00	12.20	20.00	40.00		20.00	20.00	20.00		187.50	0.3%
90	411	U	40.50	18.40	48.90	33.00	69.10	53.70	58.50	59.40	59.80	59.00	59.50	20.00	579.80	0.9%
91	413	U	37.10	32.30	41.50	69.70	43.20	93.20	61.20	54.70	37.90	67.40	74.90	34.90	648.00	1.0%
92	414	D	42.80	36.90	32.50		34.80	51.10	53.90	58.90	20.80	45.60	77.50	27.00	481.80	0.7%
93	402	D	25.70	25.30	80.00	36.60	57.40	53.50	55.60	78.90	54.60	37.70	61.20	32.30	598.80	0.9%

94	437	D												0.00	0.0%	
95	442	U							3.70					3.70	0.0%	
96	443	D						20.00						20.00	0.0%	
97	444	U					3.80				20.50			24.30	0.0%	
98	406	U	14.30	20.80	37.60	77.10	58.10	75.70	81.50	38.20	46.20	60.70	39.00	22.90	572.10	0.9%
99	448	U		5.70			4.60	4.50		11.20		11.80	9.40		47.20	0.1%
100	418	D	18.90	22.80	20.00	40.60		33.80	41.80	69.50		26.00	26.40	30.00	329.80	0.5%
101	932	D	8.20	10.80	18.50										37.50	0.1%
102	417	U			25.40	11.20	12.10	16.40	8.60	16.00	15.40	13.50	14.80	15.20	148.60	0.2%
103	9	U	65.30	46.60	67.20	33.00	55.30	23.60	12.40	43.90	64.00	61.00	47.30	43.10	562.70	0.8%
104	10	U	136.70	102.50	187.90	156.40	180.00	180.00	160.10	146.00	104.80	123.30	149.20	143.80	1,770.70	2.6%
105	12	U	57.70	35.20	98.00	41.80	20.10	10.70		31.20	18.50	36.80	46.00	16.40	412.40	0.6%
106	102	U										2.70	16.70		19.40	0.0%
109	105	U							4.90						4.90	0.0%
107	103	U													0.00	0.0%
108	104	U						10.30	29.90	10.00					50.20	0.1%
110	206	U													0.00	0.0%
111	207	U		2.30			5.50	5.50	0.30		5.70	7.90			27.20	0.0%
112	108	U													0.00	0.0%
113	836	U													0.00	0.0%
114	836	U													0.00	0.0%
115	625	U	310.80	207.40	411.90	222.20	239.30	232.60	218.10	182.50	167.90	177.90	214.30	173.80	2,758.70	4.1%
116	121	U	38.20	33.30	47.80	16.80	53.40	48.40	29.10	28.00	54.40	43.70	15.00	42.70	450.80	0.7%
117	124	U	13.70	20.00		15.70	10.60			46.20	14.90		18.20	17.10	156.40	0.2%
118	2	U	39.60	72.90	146.80		75.20		40.60	66.60	80.30	37.80	65.40	70.00	695.20	1.0%
119	449	D						4.70	12.70		11.00	8.20			36.60	0.1%
120	157	D	140.90	40.20	148.40	8.10			19.90		27.50	25.40		299.00	709.40	1.1%
121	92	U	80.00	34.60	87.00	57.30	49.60	98.70	89.10	71.30	52.20	49.70	48.40	20.00	737.90	1.1%
122	90	U	38.40	20.00	42.50	24.10	43.10	40.20	40.00	65.70	46.50	17.10	20.00	73.50	471.10	0.7%
123	77	D													0.00	0.0%
124	78	D	19.30	14.00	15.80	9.30	6.30			10.00	5.50	26.40	4.10	46.10	156.80	0.2%
125	156	D	230.70	98.90	269.50	16.40							18.80	342.70	977.00	1.5%
126	79	U			4.00			8.00	1.90	3.70		1.90			19.50	0.0%
127	80	U	1.50	2.60	1.60	10.70	16.30	15.50	7.70	10.60	4.00				70.50	0.1%
128	22	U	77.10	61.00	119.00	89.50	87.30	84.80	87.30	71.00	81.70	52.60	63.70	55.00	930.00	1.4%
129	86	U	35.10		13.10		11.90								60.10	0.1%
130	147	D	174.00	74.00	144.90								9.10	245.00	647.00	1.0%
131	16	U	59.40	51.3	60.6	49.4	50	98.2	62.6	75.2	46.1	57.2	65.3	39.9	715.20	1.1%
132	141	U	49.40	35.3	87.6	47.2	32	53	61.4	34.5	35.9	19.3		198.1	653.70	1.0%
133	56	D				27.7	9	13.1	15.7	31.8	12.3	13.8	23		146.40	0.2%
134	34	D						46.6	41.1	51.2	77.9				216.80	0.3%
135	23	U						32				35.7			67.70	0.1%
136	419	D	86.40	50.4	62.6	89.9	74.8	44.6	88.2	82.9	72.9	26.6	97	75.8	852.10	1.3%
137	25	U	49.00	23.2	50	50	75	21	25	75	74.6	101.1	73	63.5	680.40	1.0%
138	96	U		46.1	69.7	25	25	49.9	31.8	50	25	25		25	372.50	0.6%
139	44	U												18.8	18.80	0.0%
TOTAL GALS			5,698.00	3,797.50	8,284.38	4,150.80	5,308.20	5,572.10	5,291.70	5,759.40	#####	4,838.60	4,775.10	8,094.40	66,889.58	
% OF TOTAL			9%	6%	12%	6%	8%	8%	8%	9%	8%	7%	7%	12%	100%	



# GASOLINE PURCHASES

## Gallons per Month by Card #

Crd #	Veh #	Type U/D	Gallons per Month by Card #												Total by Card	% of Total
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	120	D	67.90	280.4	68.50	110.00	93.70	21.00	30.40	68.90	15.60	79.80	22.80	410.10	1,269.10	1.9%
2	135	U						8.50	11.30	14.00	4.20				38.00	0.1%
3	136	U	25.60	13.80	37.80	11.90	13.50	33.90	56.80	29.30	11.80	42.20	42.90		319.50	0.5%
4	137	U						11.90	3.70	14.70		17.90			48.20	0.1%
5	139	U	76.80	53.00	124.30	93.30	96.60	109.10	37.20	34.60	65.90	106.40	56.50		853.70	1.3%
6	140	U						8.90		16.20		5.10			30.20	0.0%
7	142	U						28.30	26.00	12.10	28.50	17.00			111.90	0.2%
8	143	U											10.10		10.10	0.0%
9	145	D			73.10	54.10		23.50				110.40	125.60		386.70	0.6%
10	148	D	100.60	295.40	43.40						20.30	4.30	43.20	347.20	854.40	1.3%
11	149	U	167.60	27.50	83.00		9.40	3.70	7.80	42.50	9.80	6.40	45.00	262.60	665.30	1.0%
12	153	U	74.60		22.40				15.00				35.90	333.30	481.20	0.7%
13	155	U	17.10		49.40	106.50	75.80	42.20	33.40	46.50	16.70		18.20		405.80	0.6%
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	169	D				5.50	4.60								10.10	0.0%
16	171	U	69.30	113.00	98.60	75.00	81.70	100.00	98.60	100.00	70.00	119.00	68.20	90.80	1,084.20	1.6%
17	173	U	8.20	29.80			18.00	18.70	15.80	14.60	9.90		14.90		129.90	0.2%
18	183	U													0.00	0.0%
19	184	U	79.20	52.40	90.70	64.50	71.30	77.80	73.30	88.20	49.30	51.40	67.20	40.00	805.30	1.2%
20	193	U							4.20	1.40					5.60	0.0%
21	194	U													0.00	0.0%
22	199	D	5.50	11.50	5.00	7.10	17.00	98.40	43.90	29.30	47.40	39.10	3.90		308.10	0.5%
23	146	D	197.20	341.80	138.80	55.90	67.70		68.60	53.10	111.00	103.30	52.30	453.00	1,642.70	2.4%
24	15	D	62.50	257.60	483.40	10.70	46.00	28.70	47.80			26.70		211.70	1,175.10	1.7%
25	16	D	28.00			413.90	316.20	138.20	304.90	263.60	253.60	268.00	131.10		2,117.50	3.1%
26	17	D						28.70	128.70	140.10	18.90				316.40	0.5%
27	138	D		23.90	40.00		30.10					36.00		99.30	229.30	0.3%
28	150	D	40.00	244.00	38.20			2.60			17.20			204.20	546.20	0.8%
29	151	D	155.20	215.10	35.70						25.00		26.40	338.00	795.40	1.2%
30	152	D	21.40	31.10	29.30	11.90	16.00	24.20	1.10		1.30	11.00			147.30	0.2%
31	154	D					23.20		46.10	75.20					144.50	0.2%
32	158	D	160.30	258.40	41.80		12.10			31.40	28.00			300.40	832.40	1.2%
33	6B	D	53.80	64.80										62.60	181.20	0.3%
34	18	D	44.50	267.10				46.60						281.30	639.50	1.0%
35	19	D		17.80	11.70			15.60		10.80			3.50		59.40	0.1%
36	110	U	23.20		3.00	3.00						5.80			35.00	0.1%
37	115	D					49.30	43.10	48.10			42.50			183.00	0.3%
38	170	U							21.30	29.70		30.00	24.50		105.50	0.2%
39	101	U	41.00	32.70	13.60	20.00	16.00	30.20	43.60	40.90	28.30	20.00	23.70	20.00	330.00	0.5%
40	2	U	13.50	55.50	11.80	7.50	11.20		11.60	13.20	13.00	29.80		20.30	187.40	0.3%
41	228	U					20.20								20.20	0.0%
42	72	U	29.50	17.50		40.00	19.90	64.30	21.60	61.80					254.60	0.4%
43	74	U				23.70	118.90	78.90	84.20	34.00	33.40	80.20	38.30		491.60	0.7%
44	75	U	68.00	16.10	73.40		27.10	25.00	94.80	35.10	1.90		29.00	26.00	396.40	0.6%

45	76	D	21.00	11.90		4.40			7.50					48.20	93.00	0.1%
46	81	U	65.90	16.70	52.20	70.40	98.30	107.50	112.30	79.80	71.10	54.00	34.20	16.70	779.10	1.2%
47	82	U													0.00	0.0%
48	85	U	15.40	21.10	14.40	13.80	16.10	17.50	15.30	12.70	14.60		16.50	42.70	200.10	0.3%
49	91	U	50.50	85.50	18.70	17.00		17.10	50.70	16.10	32.20	81.20		32.50	401.50	0.6%
50	95	U					6.80	38.60	48.40	15.70					109.50	0.2%
51	202	U	24.10	71.70	51.10	51.10	50.50	57.80	49.90	33.20	35.30	80.60	57.70	135.30	698.30	1.0%
52	208	U	40.20	86.10	12.80		1.80					3.20	9.30	104.70	258.10	0.4%
53	209	D				10.90		8.00		15.50	24.90	11.40			70.70	0.1%
54	210	D													0.00	0.0%
55	204	D	22.00	16.50	44.40		12.50	9.00	48.40	13.50				13.50	179.80	0.3%
56	205	D		23.30			17.20		29.70		15.30		12.00		97.50	0.1%
57	317	D	100.00	50.00	150.00	131.70		193.70	125.30	181.30	171.10	191.00	50.00		1,344.10	2.0%
58	318	U													0.00	0.0%
59	319	U			4.60		4.10	5.60							14.30	0.0%
60	387	U	12.40	46.70	14.10			59.70	68.90	41.80				46.50	290.10	0.4%
61	304	D				5.00	20.30	18.20	15.10	10.20	14.10	25.90			108.80	0.2%
62	320	U	36.80	18.10	15.10	32.30	25.70	30.30	19.50	17.10	20.20	36.90	22.90	31.70	306.60	0.5%
63	620	U	362.50	446.40	306.20	285.80	312.10	189.20	45.40	144.30	121.50	142.50	103.60	132.40	2,591.90	3.9%
64	624	U	400.80	386.00	475.40	332.30	196.70	258.70	243.20	347.30	277.70	302.70	345.40	371.60	3,937.80	5.9%
65	626	U	411.00	370.00	231.40	463.70	316.60	334.10	401.70	464.50	338.40	244.70	380.70	363.60	4,320.40	6.4%
66	623	U	11.20	9.10	56.60	33.90	46.10	15.30	51.20	61.20	48.10	72.00	30.30	59.50	494.50	0.7%
67	622	U	95.50	157.10	136.10	181.40	30.20	63.80	48.00	22.60	23.10	30.20	53.20	107.40	948.60	1.4%
68	628	U	84.80	66.20	78.50		42.90	40.80	45.50	77.20	43.30	29.80	40.20	45.90	595.10	0.9%
69	621	U	36.40	35.20	77.80	58.30	84.40	153.60	244.40	191.40	74.80	53.50	13.20	11.60	1,034.60	1.5%
70	901	D	30.40			83.30	17.40	22.90	73.60	22.50	19.90	19.60	19.40		309.00	0.5%
71	902	D	35.70	14.00	14.10	51.50	19.10	48.60	36.00	27.10	21.40	11.80	24.00	20.90	324.20	0.5%
72	903	D	28.40	14.70	20.80	41.00	14.40	35.80	23.20	36.30	29.50	29.10	13.10		286.30	0.4%
73	905	D	13.00	14.20		14.10	0.70								42.00	0.1%
74	915	D	42.40	29.80	12.70	46.80	41.40	11.50	30.50	13.10	13.40	25.70	27.60	22.30	317.20	0.5%
75	916	D	174.70	150.80	160.40	165.40	166.50	192.40	192.10	239.60	153.00	166.80	191.20	197.10	2,150.00	3.2%
76	900	D													0.00	0.0%
77	910	U	66.70	63.50	65.30	53.80	79.60	62.50	48.50	52.00	24.40	33.30	23.80	28.80	602.20	0.9%
78	917	D			22.50			22.80	13.40				5.30		64.00	0.1%
79	907	D	9.80	17.20	7.90	19.00	13.40	34.30	9.00			10.70		29.50	150.80	0.2%
80	908	U	67.00	71.30	42.60	81.50	42.20	49.90	43.40	41.10	29.50	34.10	37.00	28.10	567.70	0.8%
81	906	U													0.00	0.0%
82	919	U				10.50	11.00				21.40				42.90	0.1%
83	909	U					20.60		61.10	74.40	53.50	57.90	55.70	79.70	402.90	0.6%
84	401	U	8.90	69.10	33.50	19.10	33.50	36.80	27.10	33.20	45.00	63.80	61.60	69.70	501.30	0.7%
85	3	U	24.30		26.10					50.70				24.20	125.30	0.2%
86	4	U	45.40	22.60	49.30	48.10	46.40	47.10	46.90	45.30	16.10	46.40	26.20		439.80	0.7%
87	5	U	78.40	82.40	66.20	68.20	76.60	45.40	53.80	41.60	37.70	74.60	62.10	26.20	713.20	1.1%
88	7	U	132.00	97.80	75.80	77.20	51.50	35.10	37.60	19.10	45.70	17.50	36.50		625.80	0.9%
89	8	U	26.00	20.00	20.00		20.00	40.00	40.00	65.70	37.00	40.00		50.90	359.60	0.5%
90	411	U	20.00	40.00	22.00	79.90	31.30	40.00	45.60	31.30	19.10	48.80	20.00	20.00	418.00	0.6%
91	413	U	65.10	33.10	49.40	103.80	32.50	57.90	41.10	61.20	80.70	53.00	31.40	33.40	642.60	1.0%
92	414	D	12.30	39.40	28.30		60.10	56.80	25.80	50.70			27.50	12.80	313.70	0.5%
93	402	D	60.10		90.90	99.60	44.50	71.40	68.60	67.40	4.90	66.40	92.90	23.80	690.50	1.0%

94	437	D													0.00	0.0%
95	442	U													0.00	0.0%
96	443	D				19.70		13.20	11.60		3.30	6.70			54.50	0.1%
97	444	U													0.00	0.0%
98	406	U	27.00	70.80	26.50	22.20	70.00	55.80	71.30	56.40		58.50	21.60	54.00	534.10	0.8%
99	448	U	5.00		6.30	9.40	8.90	6.80				7.20			43.60	0.1%
100	418	D	24.20	23.40	21.80		29.00	25.10	19.90			21.10	20.30		184.80	0.3%
101	932	D	12.40	28.70	15.80										56.90	0.1%
102	417	U		13.90	8.80	22.30	15.80	13.30		15.40	26.70	11.90	16.70	15.30	160.10	0.2%
103	9	U	62.70	100.20	130.90	95.80	60.90	80.10	79.20	66.00	86.00	67.00	65.10	103.90	997.80	1.5%
104	10	U	157.20	123.20	126.70	150.70	131.30	136.20	153.60	126.50	71.80	123.70	106.60	99.80	1,507.30	2.2%
105	12	U	36.40	17.50	44.80				36.20	14.20		34.70			183.80	0.3%
106	102	U													0.00	0.0%
109	105	U													0.00	0.0%
107	103	U					6.20	6.60	6.40			5.90			25.10	0.0%
108	104	U													0.00	0.0%
110	206	U													0.00	0.0%
111	207	U				4.10		6.80							10.90	0.0%
112	108	U													0.00	0.0%
113	836	U				26.90	260.30	312.80	365.10	349.90	265.60	370.70	400.20	371.70	2,723.20	4.0%
114	836	U					16.70	45.60	34.90	34.70	23.80	20.00	5.90		181.60	0.3%
115	625	U	285.10	228.70	253.80	226.40	154.40	170.10	156.00	223.00	191.90	188.40	101.60	194.80	2,374.20	3.5%
116	121	U	33.00	44.90	45.90	12.70	39.20	49.60	45.90	36.20	36.10	37.30	17.40	33.20	431.40	0.6%
117	124	U	38.40	20.00	19.70	40.00	22.80	21.60	16.20		28.00		21.50	28.20	256.40	0.4%
118	2	U	108.90	101.30	71.20	29.30	54.50	42.00	37.80	78.70		37.10	43.70		604.50	0.9%
119	449	D											1.00		1.00	0.0%
120	157	D	136.40	256.40					20.00		37.20	37.80	16.10	245.60	749.50	1.1%
121	92	U	67.50	20.50	40.00	63.00	64.60	49.80	90.10	70.40	21.60	70.30	40.00	42.00	639.80	1.0%
122	90	U	53.60	71.40	40.00	38.00	27.70	59.00	24.50	81.40	41.40	60.70	77.90	77.40	653.00	1.0%
123	77	D				3.00									3.00	0.0%
124	78	D	46.50	60.20	4.60								23.60	26.30	161.20	0.2%
125	156	D	175.10	405.00	58.70				37.90		30.10		35.80	458.60	1,201.20	1.8%
126	79	U													0.00	0.0%
127	80	U				8.80	14.70	22.90	33.50	28.40		2.80	30.00	53.30	194.40	0.3%
128	22	U	91.60	70.40	86.80	68.80	85.70	96.20	67.10	64.90	61.50	57.00	65.60	50.80	866.40	1.3%
129	86	U			18.00			13.10							31.10	0.0%
130	147	D	77.60	246.50	57.20						11.90		33.10	299.80	726.10	1.1%
131	16	U	48.50	63.3	36	41.5	61.2	61.2	71.8	59.1	29.9	53.9	38.2	42.8	607.40	0.9%
132	141	U	72.00	132.6	37.3		31	60.5	34.4	62.1	28.1	59.5	59.1	172.7	749.30	1.1%
133	56	D		18.4	17			5.8	15.6		11.7		19.2	40.7	128.40	0.2%
134	34	D						23.1	48.5	15.5	9.8				96.90	0.1%
135	23	U						28.2							28.20	0.0%
136	419	D	55.10	82.1	54.4	56.7	59.6	47.5	47.3	46.1		52.5		92.8	594.10	0.9%
137	25	U	99.60	63	75	100	100	73.6	105	75	100	100	75	46.9	1,013.10	1.5%
138	96	U		25	25	50	47.5	25	84.6	81.7	25	75	37	25	500.80	0.7%
139	44	U	19.80	20.7	39	43.3	17.1	19	18.8	20.1	21.6	40.9	37.3		297.60	0.4%
140	836	U						30	58.9						88.90	0.1%
TOTAL GALS			6,095.20	7,725.80	5,525.30	5,001.90	4,786.20	5,165.60	5,730.70	5,683.50	#####	5,012.00	4,217.20	8,307.60	67,272.90	
% OF TOTAL			9%	11%	8%	7%	7%	8%	9%	8%	6%	7%	6%	12%	100%	

