



**City of Centennial**  
**Public Works Department**  
**Operations and Traffic Engineering**  
**Monthly Report - February 2011**

## ACTIVITY

- [Call Center](#) – The total number of calls to 303.325.8000 and web requests received were 1,592.
- [Work Requests](#) – The total number of work requests received were 1,924.
- [Compliance Summary](#) – Field and Traffic Services work requests were completed between 98% - 100% compliance and the Call Center compliance metric was 94%.
- [Right-Of-Way Permits](#) – There were 29 permits issued in February.
- [Traffic Maintenance](#) – A total of 14 signs were installed and 11 were replaced for the month.
- [Pavement Maintenance](#) – Due to the winter season, crews will be using cold mix asphalt for pothole repairs.
- [Concrete Replacement](#) – The concrete replacement program will begin in April.
- [Mowing, Debris, and Weed Control](#) - The program will begin in April.
- [Street Sweeping and Shoulder Maintenance](#) – Sweeping is scheduled to begin in March.
- [2011 Performance Measures](#)
- [Fuel Inventory](#) – Unleaded Fuel Usage and Diesel Fuel Usage
- [Vehicle Use and Efficiency](#) – Calculation of fuel used by vehicle number.
- [Snow Material Inventory](#)
- [City Budgets](#)

## REVENUE

The February right-of-way permit revenue, excluding pavement restoration fees, was \$22,964.

## PUBLIC WORKS MAJOR ACTIVITIES

Coordinated the Energy Efficiency and Conservation Block Grant (EECBG) Solar School Beacons contract award and contract execution with contractor.

Participated in the roll-out of CarteGraph mobile SignView by collecting sign data for the IKEA segment.

Updated signal timing plans on Arapahoe Road (Colorado to Homestead) and Dry Creek Road (Clarkson to Yosemite).

Coordinated the Walnut Hills Baseline Traffic Study approval by City Council.

Public Works crews have been patching potholes for the past few months with more than 10 tons of cold mix asphalt throughout the City. The crews have also started patching small areas with hot mix asphalt when weather allows.

Public Works crews continue to complete sign maintenance activities by replacing damaged or missing signs.

The Public Works IT Division has been engaged researching to becoming a partner with GOOGLE in order to share the City's Public Works information via their traffic layer on GOOGLE maps.

## A LOOK AHEAD

- Coordinate signal communication equipment installation for Dry Creek Road Signal Improvements Project.
- Complete development of the 2011 Annual Pavement Markings Program for release to Field Services.
- Complete development of the 2011 Annual Crosswalks Striping Program for release to Field Services.
- Coordinate EECBG Solar School Beacons contract execution and Notice to Proceed.
- Begin implementation of NTMP traffic mitigation plan for Dorado Avenue.
- Go live with new Traffic webpage describing procedure for setting regulatory speed limits.
- Identify striping improvements and locations for loop repair for 2011 CIP Street Rehabilitation projects.
- Public Works will continue working on sign maintenance, which is a year-round activity.
- Public Works crews will begin crack seal activities in the next couple of weeks. They will be completing a large amount of their work for the CIP in preparation for the slurry seal program.
- Public Works will start asphalt patching throughout the City. The crews will have approximately 1,000 tons of asphalt to place for the repair of streets during the spring and summer months.

- Public Works will also begin asphalt patching areas for the CIP program as well as work request areas throughout the City.
- Sweeping activities will begin on March 28<sup>th</sup> to sweep the entire City. The sweepers will begin on the east side of Centennial and sweep every street within the City. This is the first of four sweeping rotations for the year.
- The anticipated Go-Live date for the CarteGraph Mobility Project is scheduled for March 4, 2011. The hand held devices will allow Staff to immediately enter data into CarteGraph while out in the field and will reduce the amount of paper currently being used. A CarteGraph representative is scheduled for a “hands-on” training to include Traffic Engineering and Field Services employees on March 2-3, 2011.

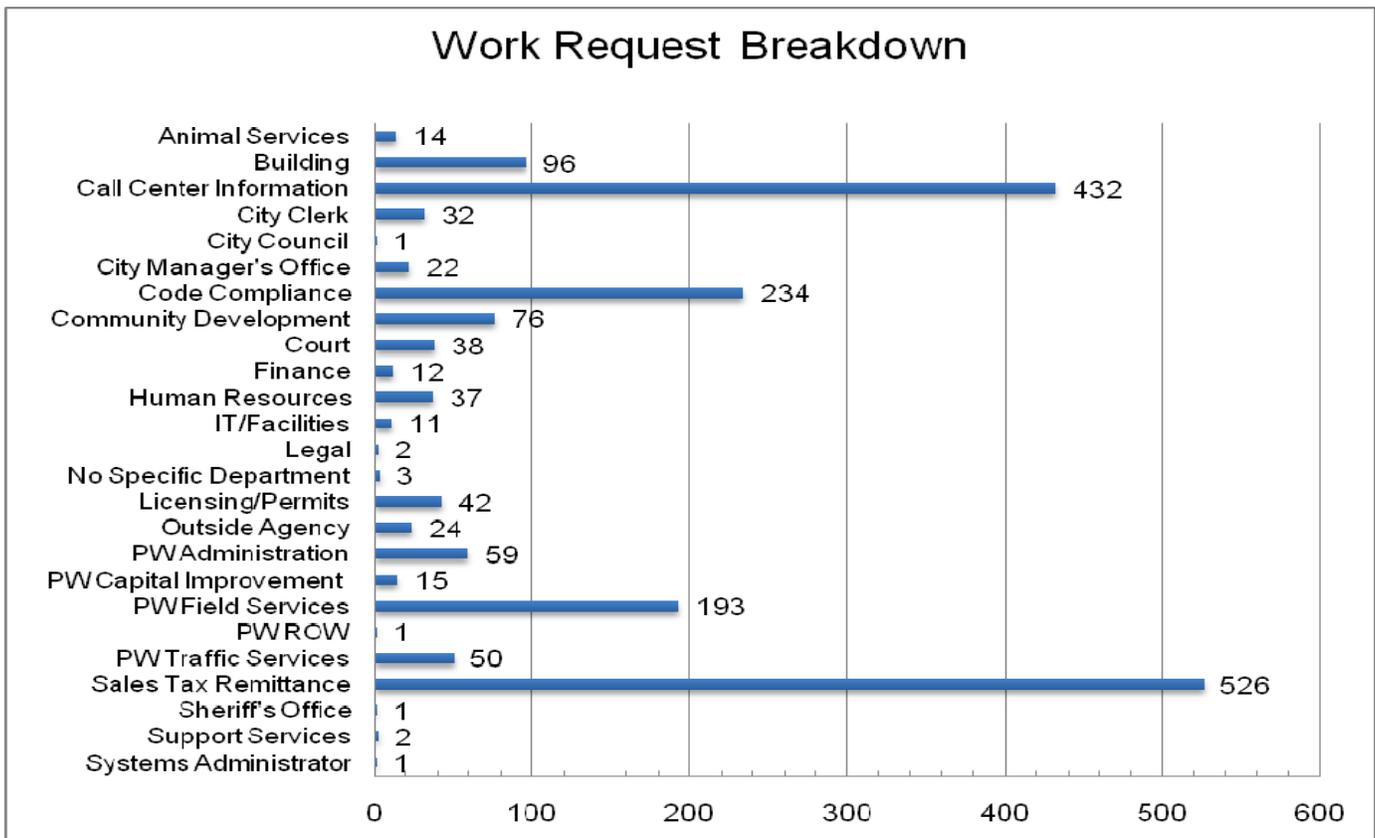
## Call Center

In February, the number of phone calls received by the City's 24-Hour Call Center, 303.325.8000, was 1,549 which includes 43 web requests. A total of 5 calls were routed to the answering service during business hours, and a total of 51 calls after business hours. Overall, for the month of February, the Call Center had a 94% compliance metric of answering phone calls within 120 seconds.

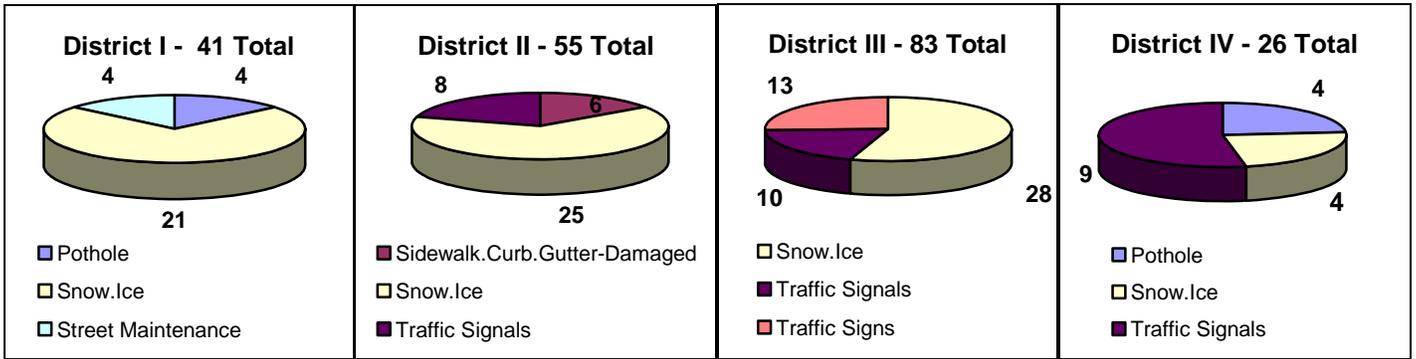
February 2011	Week 1	Week 2	Week 3	Week 4	MTD
	Feb 1-4	Feb 5-11	Feb 12-18	Feb 19-28	Total
Web Requests	7	19	5	12	43
Total Calls Handled by the Call Center	342	437	399	371	1,549
Total Metric for Call Center	349	456	404	383	1,592
Total Calls Rolled Over to Answering Service During Business Hours	0	1	4	0	5
Total Calls Rolled over to Answering Service After Hours	6	23	8	14	51

## Work Request Breakdown

The work requests received by the City for the month of February were 1,924.



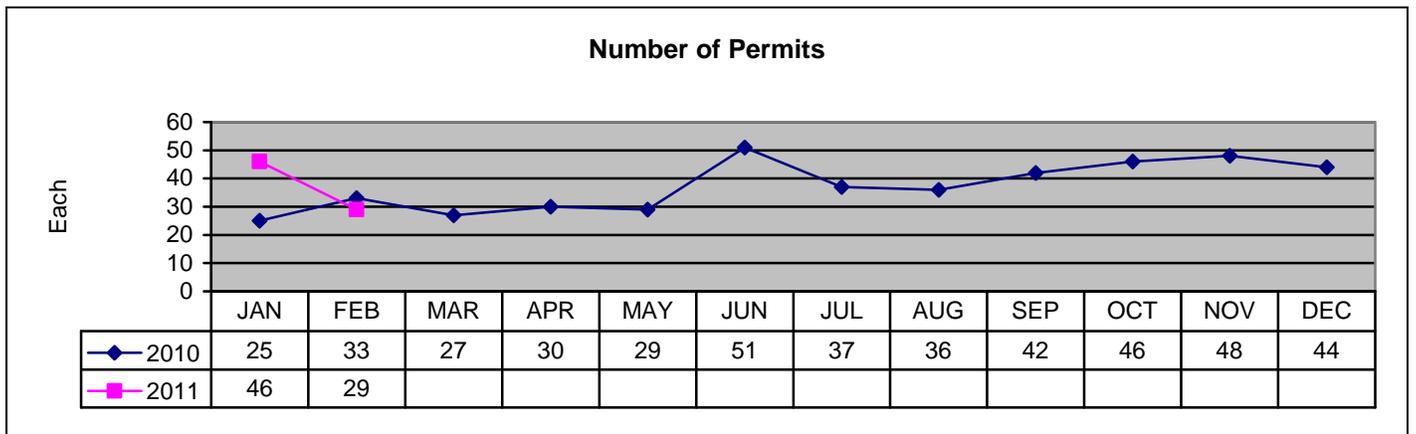
## Work Request by District and Top Three Issues



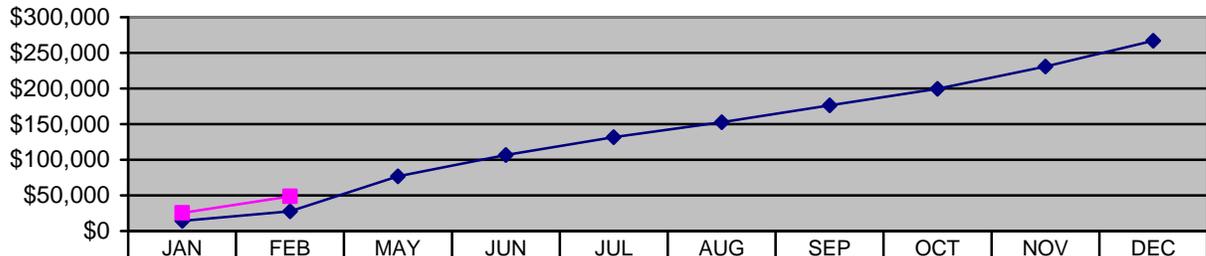
## Compliance Summary

Field and Traffic Services					
Work Request by Priority	Received Total	Compliance Standard	Completed in Compliance	Compliance %	Average Days to Close
1 - Urgent (Completed within 24 Hours)	71	85%	70	98%	.01
2 - Important (Completed within 3 Business Days)	44	85%	43	98%	.98
3 - Standard (Completed within 10 Business Days)	19	85%	19	100%	2.58
4 - Preventative Maintenance (Scheduled Work)	107	N/A	N/A	N/A	N/A
<b>Grand Total</b>	<b>241</b>				
Call Center					
Calls Answered Within 2 Minutes	Total Calls/Web Requests Handled		Compliance Standard		Compliance %
	1,592		85%		94%

## Annual Comparative Right-Of-Way Permits

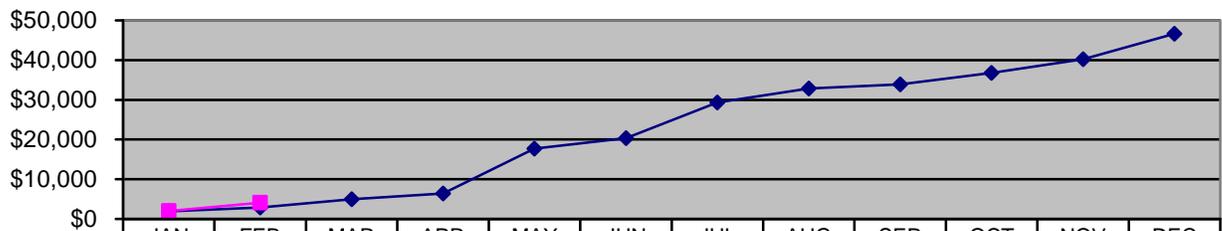


### Permit Revenue



	JAN	FEB	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2010 Cumulative	\$14,412	\$27,855	\$76,720	\$106,764	\$131,809	\$152,479	\$176,295	\$199,641	\$230,744	\$266,985
2011 Cumulative	\$25,517	\$48,481								

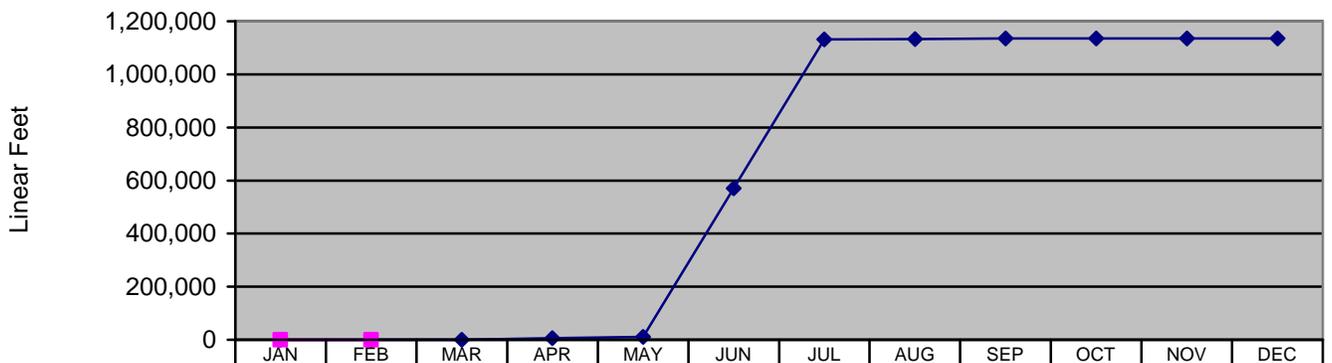
### Pavement Restoration Revenue



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2010 Cumulative	\$1,922	\$2,891	\$4,958	\$6,416	\$17,730	\$20,338	\$29,352	\$32,823	\$33,911	\$36,759	\$40,202	\$46,613
2011 Cumulative	\$1,992	\$4,047										

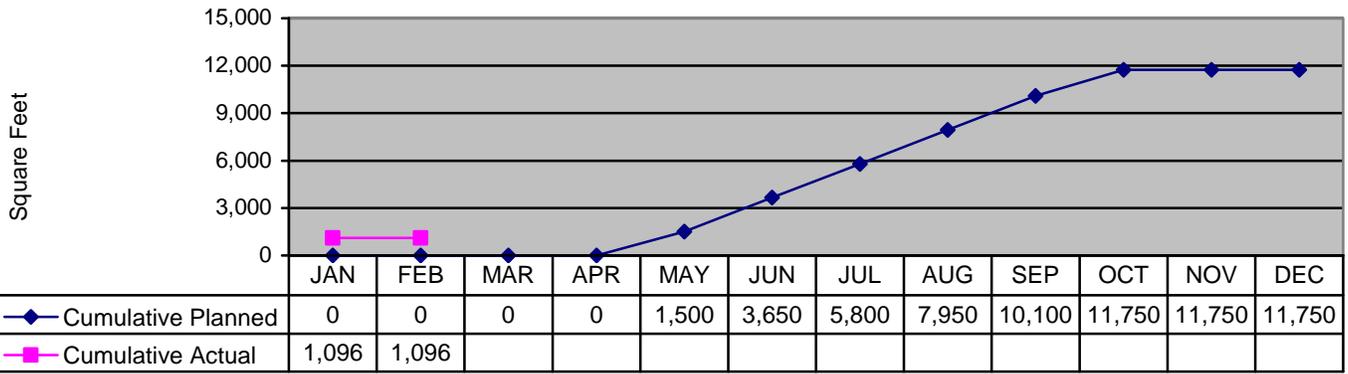
### Traffic Maintenance

#### Lane Striping

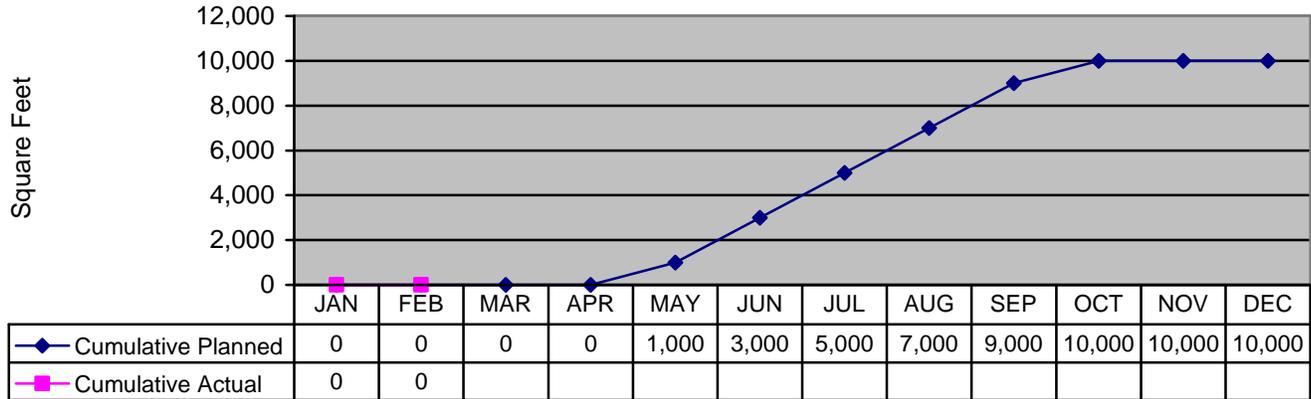


	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Cumulative Planned	0	0	0	5,600	11,200	571,200	1,131,200	1,133,200	1,135,200	1,135,693	1,135,693	1,135,693
Cumulative Actual	0	0										

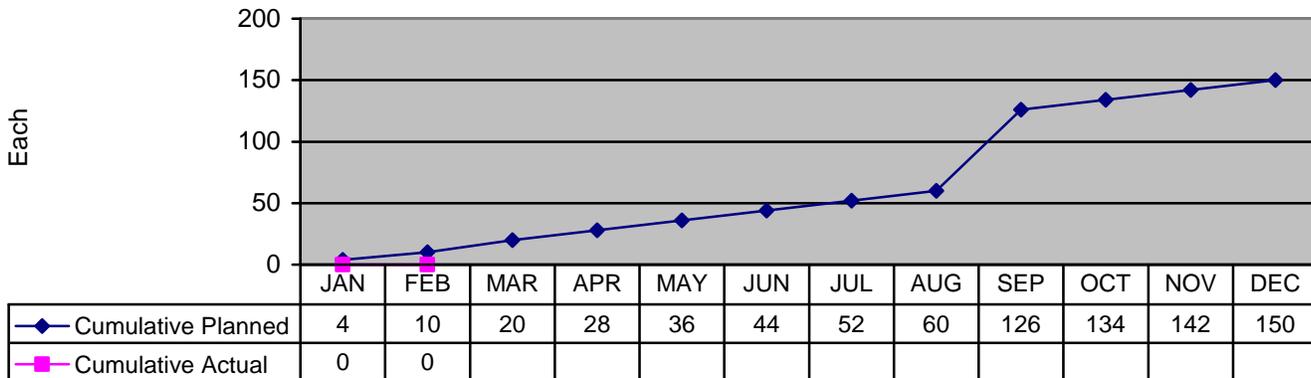
### Thermoplastic Crosswalks and Stopbars



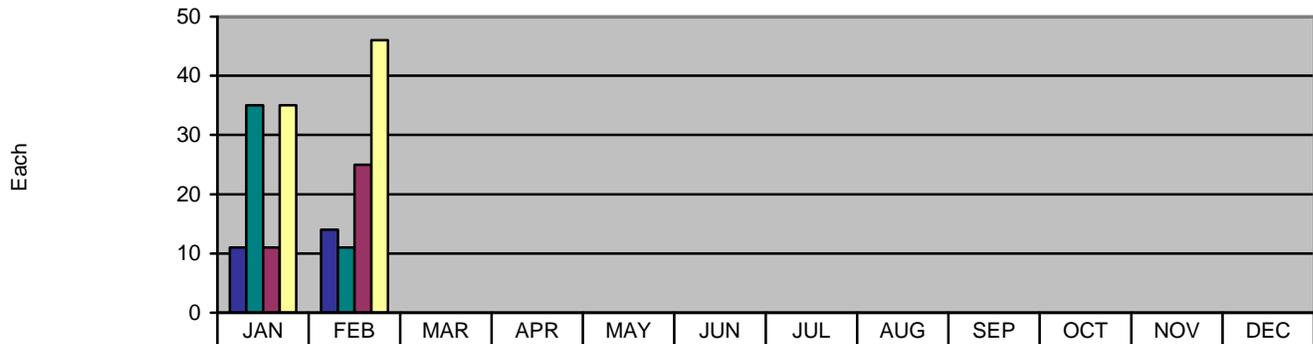
### Acrylic Paint Crosswalks and Stopbars



### Traffic Counts



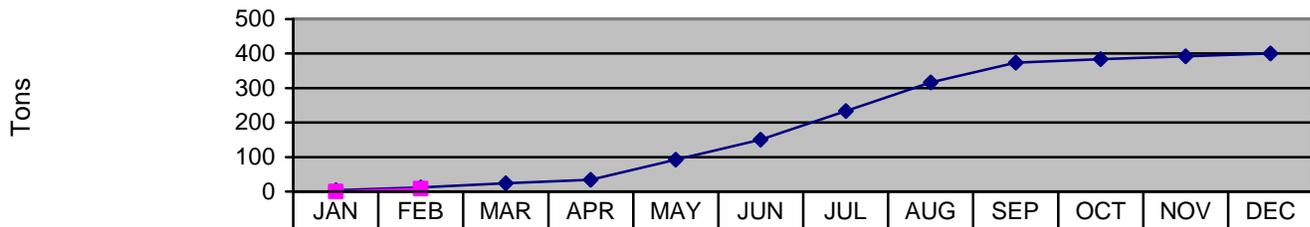
### Sign Installation and Replacement



Installation	11	14										
Replacement	35	11										
Cumulative Installation	11	25										
Cumulative Replacement	35	46										

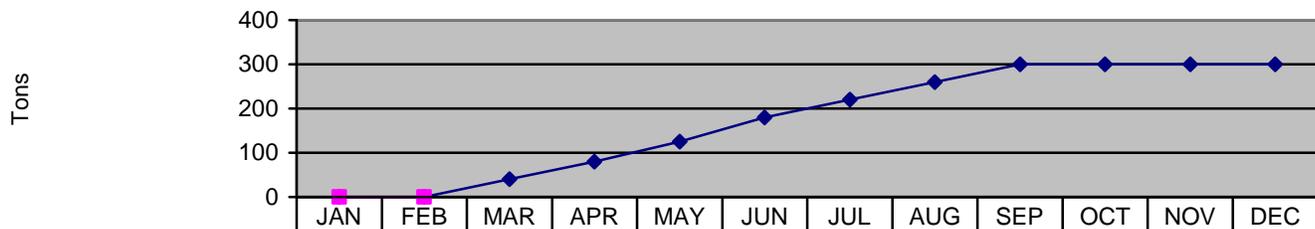
### Pavement Maintenance

#### Pothole Patching



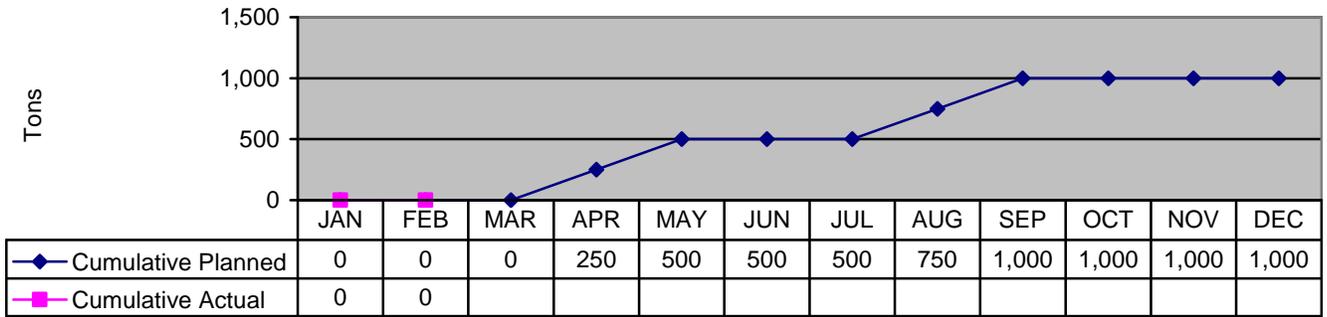
Cumulative Planned	4	12	24	34	92	150	233	316	374	384	392	400
Cumulative Actual	0.38	8.17										

#### Patch Back

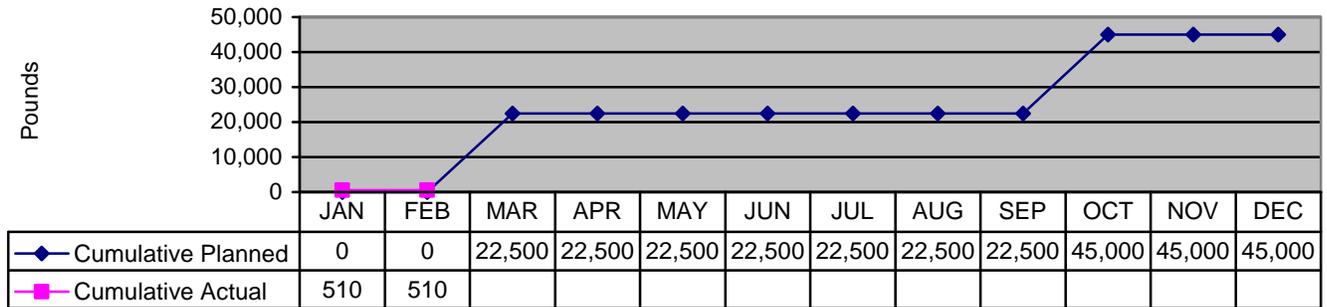


Cumulative Planned	0	0	40	80	125	180	220	260	300	300	300	300
Cumulative Actual	0	0										

### Major Patching

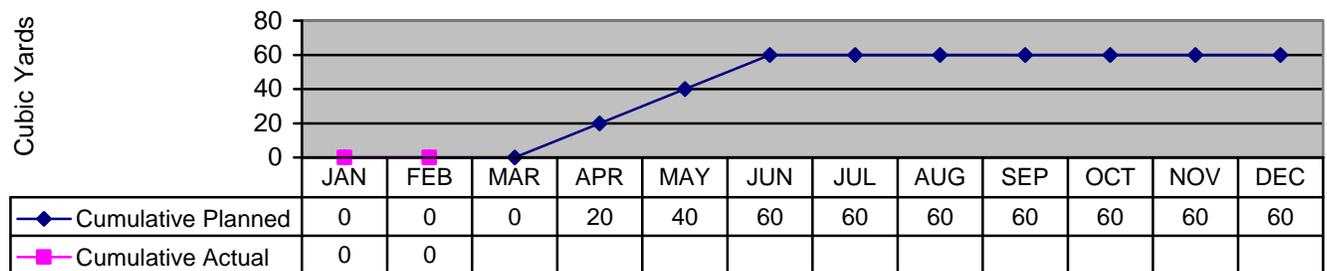


### Crack Seal

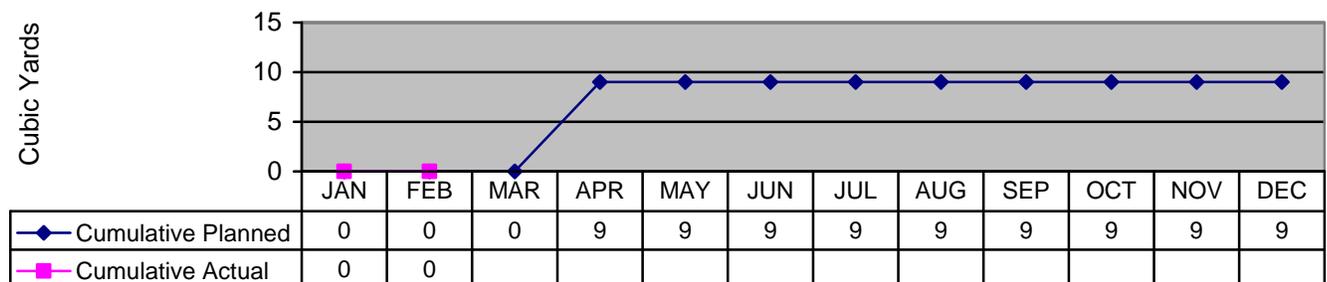


### Concrete Replacement

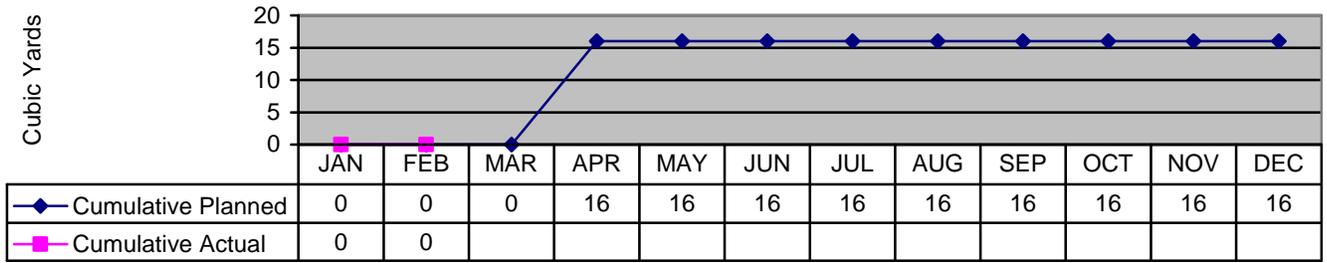
#### Sidewalk



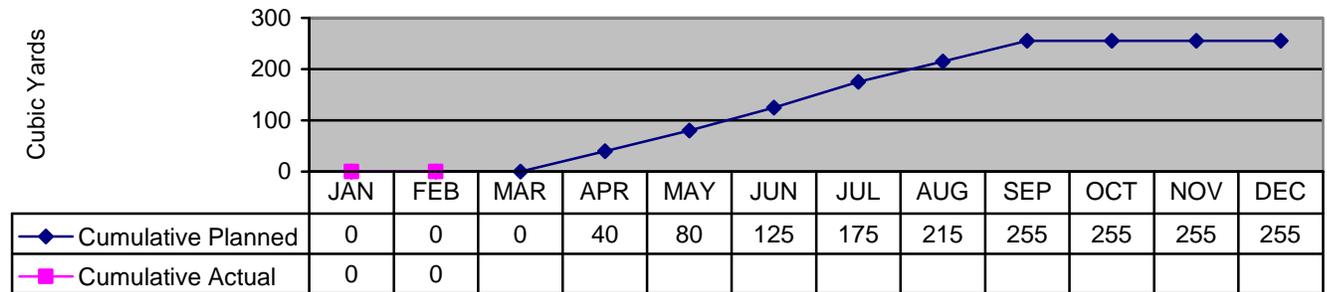
#### ADA Ramps



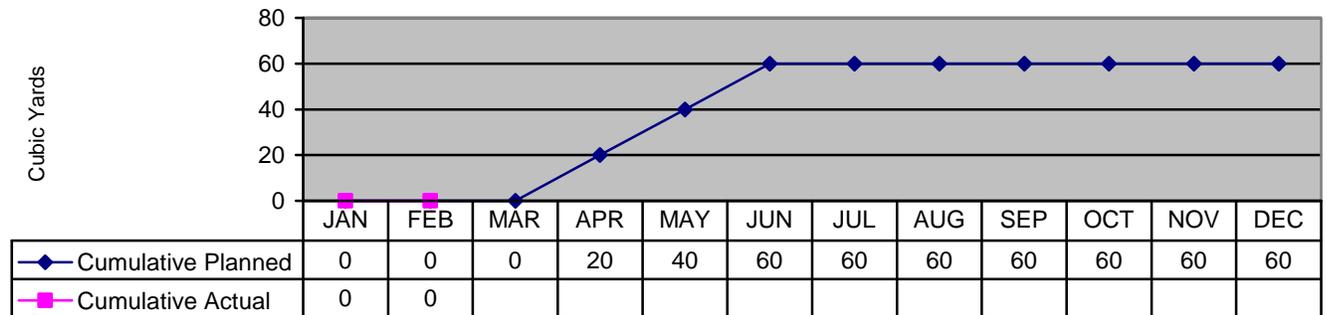
### Crosspans and Aprons



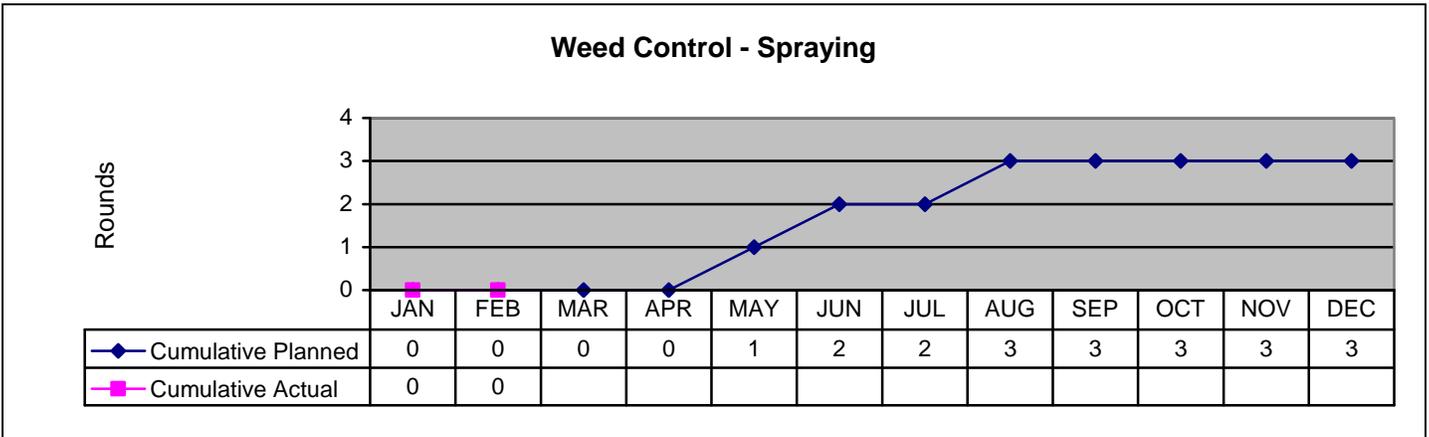
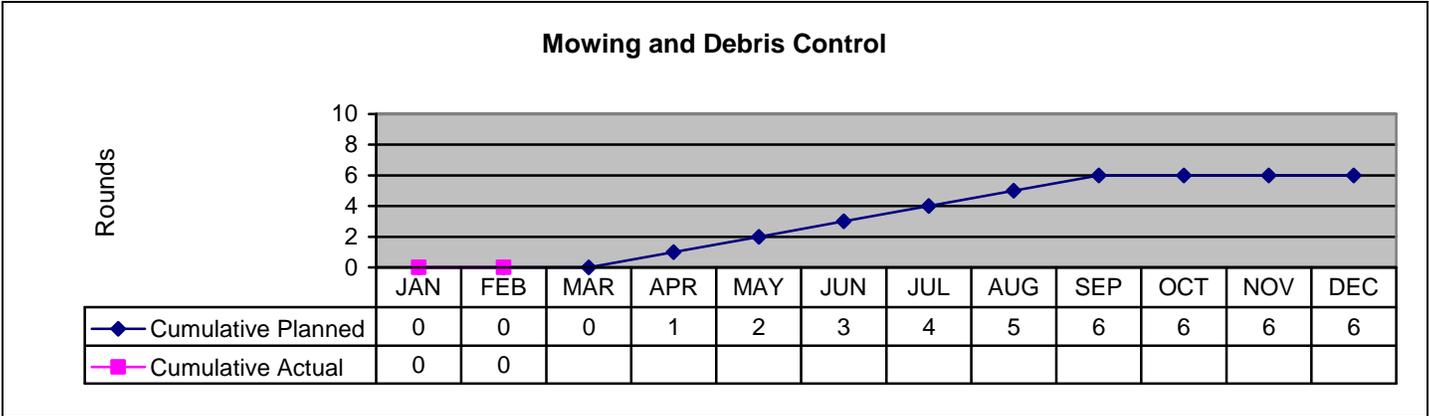
### Curb, Gutter and Sidewalk Combination



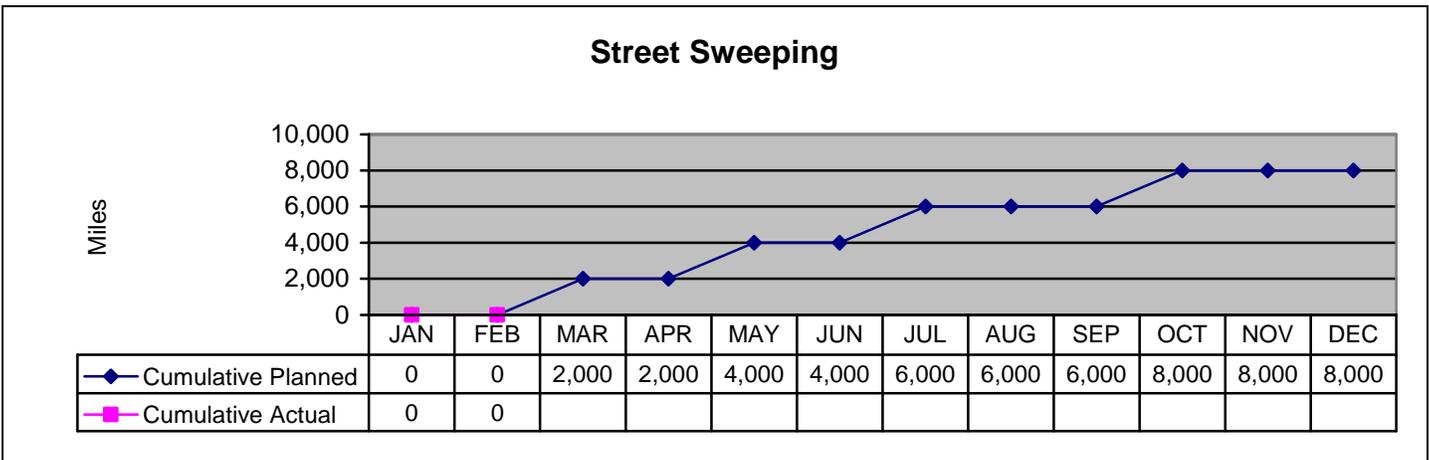
### Curb and Gutter



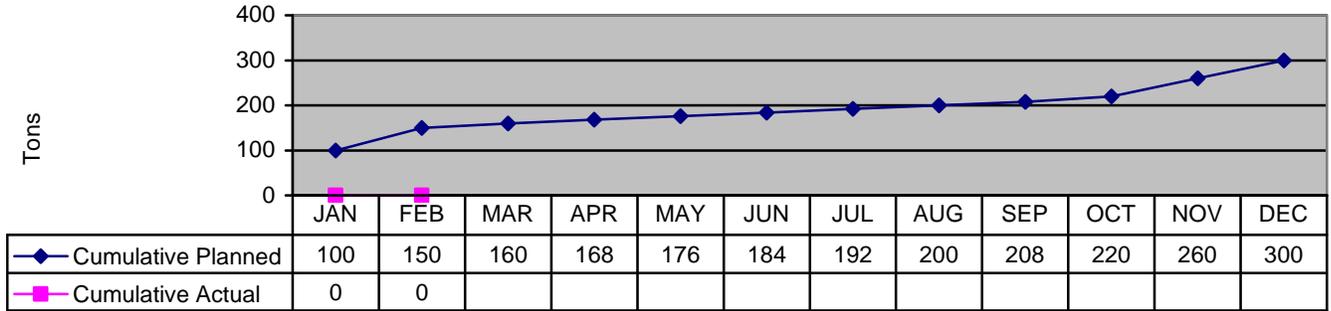
## Mowing, Debris and Weed Control



## Street Sweeping and Gravel Maintenance

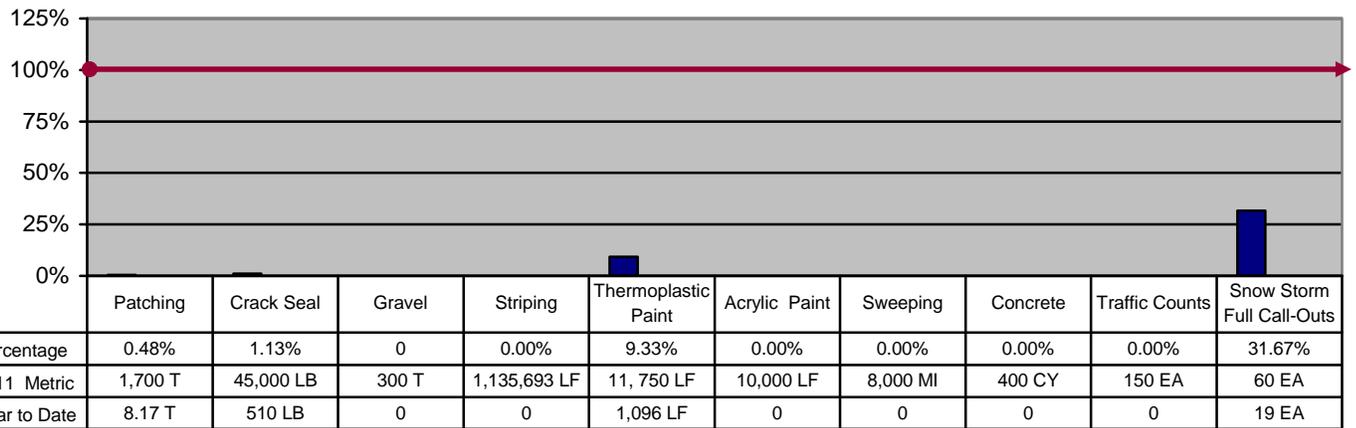


### Gravel Maintenance



### 2011 Performance Measures

#### Percentage of Metric



Tons = T

Pounds = LB

Linear Feet = LF

Square Feet = SF

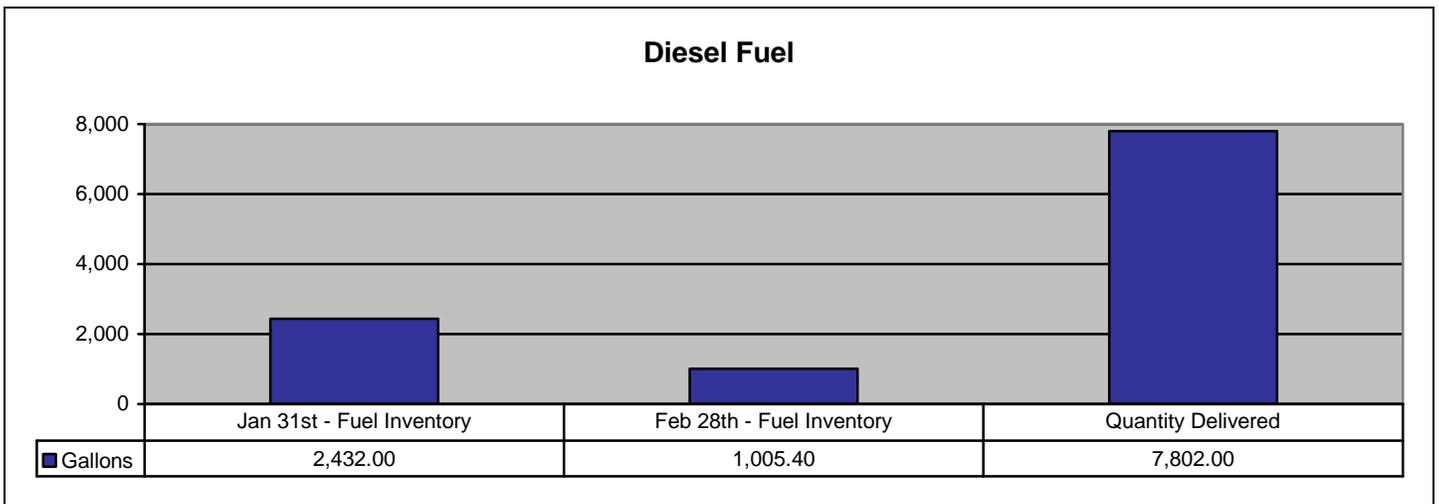
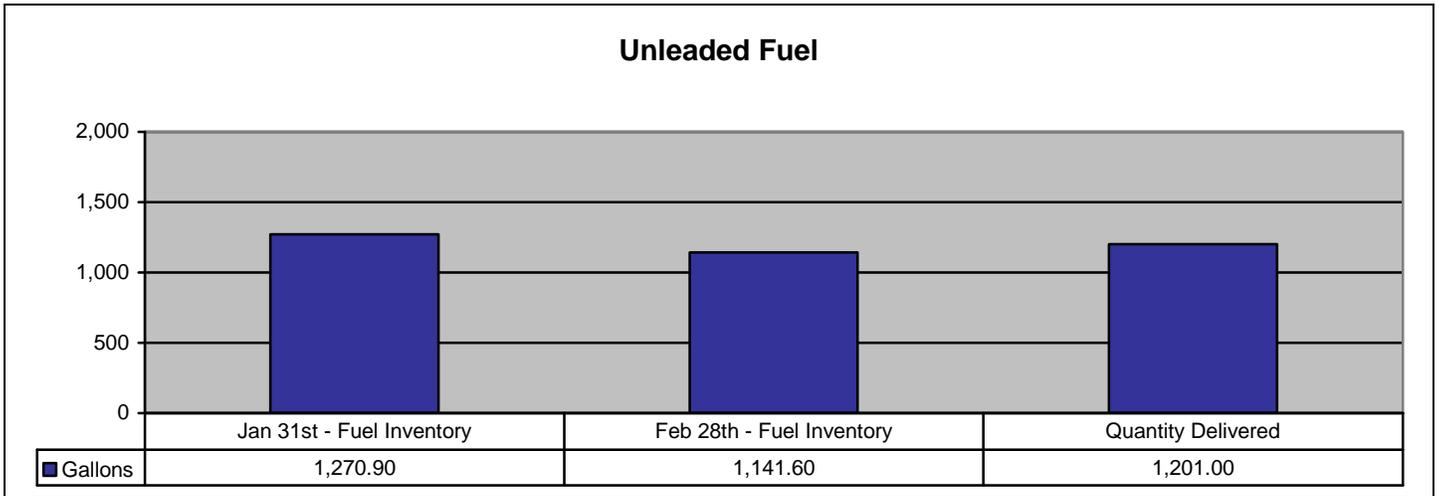
Miles = MI

Cubic Yards = CY

Each - EA

## Fuel Inventory

Fuel volume will change approximately .5% for every 10 degrees Fahrenheit change in fuel temperature. Fuel dips are completed on Monday mornings.



**Vehicle Use and Efficiency  
Period 2/1/11 to 2/28/11**

Vehicle #	Fuel Type	Description	MPG	Miles
1127	DIESEL	1982 IHC 5 yd dump	3.70	252
2063	DIESEL	1983 IHC 5 yd dump	2.50	364
2202	DIESEL	1984 IHC 5 yd dump	3.60	1,080
3347	DIESEL	1998 IHC T/A dump	4.30	3,227
3348	DIESEL	1999 IHC T/A dump	3.60	2,298
7759	DIESEL	1997 Freightliner S/A dump	6.50	2,233
7792	DIESEL	1998 IHC T/A dump	3.50	2,136
7800	DIESEL	1998 IHC T/A dump	4.70	2,757
7801	DIESEL	1999 IHC T/A dump	5.42	2,334
7802	DIESEL	1998 IHC T/A dump	3.10	2,064
7850	DIESEL	1997 IHC T/A dump	3.80	1,670
7919	DIESEL	2000 IHC T/A dump	5.40	1,581
7920	DIESEL	2000 IHC T/A dump	2.70	1,320
	DIESEL	Honen Front End Loader	1.20	261
			<b>DIESEL Total</b>	<b>23,577</b>
1597	UNLEADED	1997 ford F-250 4wd	14.30	231
2161	UNLEADED	1999 Ford F-250 4wd Super cab	8.50	338
2165	UNLEADED	1999 Ford F-250 4wd Super cab	10.00	512
2189	UNLEADED	1999 Ford F-350 2wd dump body	5.10	413
2396	UNLEADED	2000 Ford F-350 2wd	12.30	575
2398	UNLEADED	200 Ford F-250 2wd	13.50	584
2693	UNLEADED	2001 Ford F-250 4wd	10.80	937
3396	UNLEADED	2002 Ford F-250 4wd	15.30	826
5993	UNLEADED	Ford F-150	13.30	519
5994	UNLEADED	Ford F-150	13.80	1,355
5995	UNLEADED	Ford F-150	12.40	1,567
5996	UNLEADED	Ford F-150	12.00	699
9032	UNLEADED	Ford F-150	16.50	1,688
898	UNLEADED	Chevy Equinox	18.50	301
			<b>UNLEADED Total</b>	<b>10,545</b>
			<b>Grand Total</b>	<b>34,122</b>

## Snow Material Inventory Period 2/1/11 to 2/28/11

	Beginning Inventory	Delivered	Used	Ending Inventory
Liquid Material				
APEX (MgCl)	13,211.00	13,412.00	(6,950.00)	19,673.00
Solid Material				
Deicer (Salt & Ice Slicer)	1,723.84	1,574.98	(1,399.91)	1,898.91
Anti Skid (Sand/Salt Mix)	309.00	0.00	0.00	309.00
<b>Total</b>	<b>2,032.84</b>	<b>1,574.98</b>	<b>(1,399.91)</b>	<b>2,207.91</b>

### City Budgets

Invoice totals will be deducted from City budget amounts below, based on the invoice date, if the invoice has been received. If there is a discrepancy on an invoice, the amount will not be deducted until the correct invoice has been received.

	2011 Budget	2011 Contract/PO Amount	Previous Balance	Invoice Amount Received	Remaining Balance
Animal Cremation Disposal (Pet Cremation Services)	\$ 4,000.00	\$ 3,000.00	\$ 2,870.00	\$ -	\$ 2,870.00
Asphalt/Coldmix Material	\$ 90,000.00	\$ 90,000.00	\$ 90,000.00	\$ (1,500.75)	\$ 88,499.25
Large Deceased Animal Pick-Up (Animal & Pest Control)	\$ 3,000.00	\$ 3,000.00	\$ 2,650.00	\$ -	\$ 2,650.00
Fuel	\$ 137,000.00	\$ 137,000.00	\$ 122,100.77	\$ (30,856.66)	\$ 91,244.11
Mosquito Control	\$ 34,460.00	\$ 34,460.00	\$ 34,460.00	\$ -	\$ 34,460.00
Snow Removal Materials	\$ 311,000.00	\$ 311,000.00	\$ 217,997.45	\$ (112,197.29)	\$ 105,800.16
Signal (Pole) Maintenance	\$ 75,000.00	\$ 75,000.00	\$ 75,000.00	\$ -	\$ 75,000.00
Signal Additions/Repairs	\$ 174,590.00	\$ 174,590.00	\$ 174,590.00	\$ (11,191.14)	\$ 163,398.86