CITY OF
WADSWORTH
SINCE 1814

WATER & WASTE WATER DISTRIBUTION

2013

ANNUAL REPORT

TABLE OF CONTENTS

ORGANIZATIONAL CHART.....W-1

EMPLOYEE YEARS OF SERVICE.....W-2

WATER DISTRIBUTION MAIN AND VALVE REPORT.....W-3

WATER MAIN FAILURES (date).....W-4

WATER MAIN FAILURES (alphabetical).....W-5

BREAKS BY MONTH CHART.....W-6

BREAK COST PERCENTAGE CHART.....W-7

BREAKS BY YEAR CHART.....W-8

ENGINEERING BREAKS PER YEAR CHART.....W-9

VALVE REPLACEMENTS/REPAIRS CHART.....W-10

FIRE HYDRANT REPORT.....W-11 to W-12

WATER SERVICE REPORT.....W-13 to W-15

WATER SERVICE WORK ORDERS BY MONTH CHART.....W-16

WATER SERVICE NEW/REPAIR BY YEAR CHART.....W-17

SANITARY SEWER REPORT.....W-18 to W-19

SANITARY SEWER TROUBLE CALLS.....W-20

SANITARY SEWER CALL COMPARISION CHART.....W-21

SANITARY SEWER CALLS BY YEAR CHART.....W-22

FEET OF SANITARY SEWER CLEANED BY YEAR CHART.....W-23

FEET OF SANITARY SEWER TELEVISED BY YEAR CHART.....W-24

MANHOLE INSPECTIONS BY YEAR CHART.....W-25

LIFTSTATION REPORT.....W-26

TABLE OF CONTENTS

BROOKWOOD CHARTS.....W-27 to W-28

CROSSINGS CHARTS.....W-29 to W-30

STERLING OAKS CHARTS.....W-31 to W-32

WEATHERSTONE CHARTS.....W-33 to W-34

WEBER CHARTS.....W-35 to W-36

EMERGENCY CALLOUT REPORT.....W-37

CALLOUTS CHART.....W-38

CALLOUTS BY MONTH CHART.....W-39

CALLOUTS BY YEAR CHART.....W-40

OUPS REPORT.....W-41

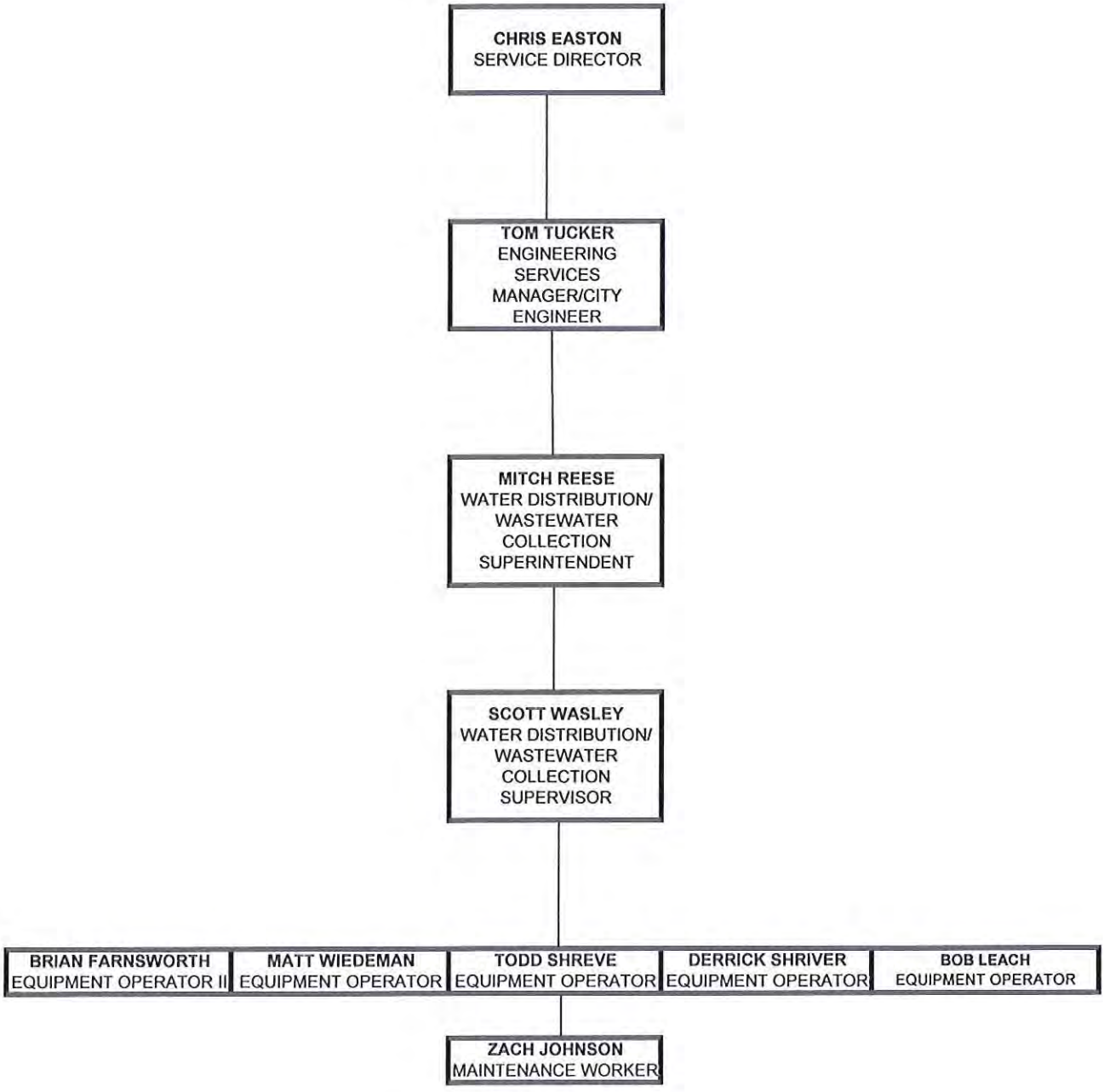
OUPS BY YEAR CHART.....W-42

EQUIPMENT LIST.....W-43 to W-47

LABOR REPORT.....W-48 to W-49

LABOR BY YEAR CHART.....W-50

ORGANIZATIONAL CHART
PUBLIC SERVICE DEPARTMENT
ENGINEERING SERVICES DIVISION
WATER DISTRIBUTION/WASTEWATER COLLECTION



TODD SHREVE TRANSFERRED TO THE STREET DEPT. IN AUG. ZACH JOHNSON STARTED IN THE WATER DEPT. IN SEPT.

2013
WATER DISTRIBUTION/WASTEWATER COLLECTION
EMPLOYEE YEARS OF SERVICE

NAME	TITLE	DATE OF HIRE	PRESENT POSITION	YEARS OF SERVICE
Mitch Reese	Superintendent	12/23/85	01/27/99	28
Scott Wasley	Supervisor	07/24/95	12/27/09	18
Brian Farnsworth	Equipment Operator II	03/29/99	12/27/09	14
Todd Shreve	Equipment Operator Transferred to Street Dept. August of 2013	06/20/00	07/07/02	13
Matt Wiedeman	Equipment Operator	06/24/98	03/27/05	15
Zach Johnson	Maintenance Worker	3/27/05	9/16/13	08
Derrick Shriver	Equipment Operator	08/14/06	12/27/09	07
Bob Leach	Equipment Operator	01/26/10	02/6/12	03
Alex Laubaugh	Summer Help			
Matt Baldwin	Summer Help			

WATER DISTRIBUTION
WATER MAIN & VALVE REPORT

OVERVIEW: This department has the responsibility to conduct emergency repairs, preventative maintenance, and assist in the planning and inspection of new water mains, system control valves, fire hydrants, and water services.

EMERGENCY REPAIR: The emergency repair of water mains consists of locating main breaks and repairing them. A list with the costs of such repairs has been provided on the following pages.

MAIN BREAKS: 32 (2012-50)(2011-39)

LEAK SURVEY: The Water Department has the goal of conducting an in house leak survey every year on the entire water distribution system. In **2013,** the crew listened to 465 fire hydrants on the low side. No leaks were found.

TESTING: In **2013,** water main testing and inspections were conducted at the following locations:

WADSWORTH HIGH SCHOOL/OUTDOOR POOL

323 HIGH	338 WEATHERSTONE ALTITUDE VALVE
ART WRIGHT STADIUM	1061 REIMER RD APARTMENTS
1001 AMBASSADOR DR.	TIBERON PHASE (III)

VALVE MAINTENANCE: During the past year we replaced/repaired 62 valves or valve boxes.(2012-38)(2011-69)

Our department is also responsible for making grade adjustments to the valve boxes and sanitary sewer manholes on streets to be paved. The following is a list of streets where such adjustments were made.

E.BOYER	E.NORTH
SEVILLE RD.	WINDING WAY
N.LYMAN	WOLF
SUNSET	

2013 WATER MAIN FAILURES

(date)

DATE		LOCATION	LABOR COST	MATERIAL COST	EQUIPMENT COST	TOTAL COST
1/3/2013	142	GOOD E.	$544	$141	$720	**$1,405**
1/8/2013		RAINBOW@MILL	$510	$186	$690	**$1,386**
1/9/2013	415	ROSALIND	$612	$390	$460	**$1,462**
1/26/2013	188	FRANKS*	$1,341	$576	$620	**$2,537**
1/26/2013	214	HIGH*	$1,897	$247	$1,620	**$3,764**
2/6/2013	414	SPRINGDALE	$630	$181	$735	**$1,546**
2/6/2013	420	S.BLVD	$432	$289	$420	**$1,141**
2/6/2013	185	WESTVIEW*	$1,490	$138	$730	**$2,358**
2/11/2013	159	GOOD W.	$1,836	$619	$1,860	**$4,315**
2/13/2013		KNOLLWOOD@ORCHARD	$666	$52	$820	**$1,538**
2/15/2013		HIGH@BROUSE	$612	$198	$460	**$1,270**
2/28/2013	109	WADSWORTH RD*	$2,035	$193	$1,035	**$3,263**
3/20/2013	900	STATE ST.	$252	$391	$330	**$973**
3/30/2013	414	OAKWOOD*	$1,809	$222	$1,030	**$3,061**
5/13/2013		KYLE@COLLEGE*	$1,949	$435	$1,185	**$3,569**
5/23/2013		OAK@SUMMIT FM	$1,404	$557	$1,495	**$3,456**
7/3/2013	245	W.GOOD	$612	$576	$1,195	**$2,383**
8/15/2013	223	LONGVIEW*	$1,080	$368	$455	**$1,903**
9/2/2013	215	WESTVIEW*	$1,472	$223	$665	**$2,360**
9/4/2013	205	WESTVIEW*	$1,400	$285	$570	**$2,255**
9/12/2013	250	SMOKERISE	$666	$155	$390	**$1,211**
10/2/2013	460	HIGHLAND	$504	$375	$460	**$1,339**
10/7/2013	227	WESTGATE	$432	$307	$540	**$1,279**
10/11/2013	236	TOLBERT	$252	$409	$420	**$1,081**
10/12/2013		ROSALIND@STRATFORD*	$1,548	$721	$550	**$2,819**
11/18/2013	218	PARKVIEW	$504	$137	$590	**$1,231**
11/27/2013	440	WOODLAND	$972	$269	$755	**$1,996**
11/28/2013	191	FIRST*	$2,142	$1,923	$790	**$4,855**
12/4/2013	799	HIGH	$1,080	$394	$1,855	**$3,329**
12/14/2013	163	SIMCOX*	$1,613	$241	$420	**$2,274**
12/14/2013	206	WOLF (REPAIRED/SIMCOX)	$945	$301	$440	**$1,686**
12/18/2013	5	STOVER CT	$1,008	$284	$1,125	**$2,417**
12/23/2013	717	SEVILLE*	$1,764			**$1,764**
		TOTALS	**$36,013**	**$11,783**	**$25,430**	***$73,226***

TOTAL MAINBREAKS 32 **(2012-50) (2011-39)**
BROOKWOOD FORCE MAIN BREAKS 1
TOTAL CALL-OUTS TO REPAIR MAIN BREAKS 13 **(2012-15) (2011-19)**
*** DENOTES CALL-OUTS**
AVERAGE COST TO REPAIR A WATER MAIN BREAK $2288.00
THIS TOTAL DOES NOT INCLUDE SITE RESTORATION COSTS
(IE CONCRETE, ASPHALT AND LANDSCAPING)

2013 WATER MAIN FAILURES

(alphabetical)

DATE		LOCATION	LABOR COST	MATERIAL COST	EQUIPMENT COST	TOTAL COST
11/28/2013	191	FIRST*	$2,142	$1,923	$790	**$4,855**
1/26/2013	188	FRANKS*	$1,341	$576	$620	**$2,537**
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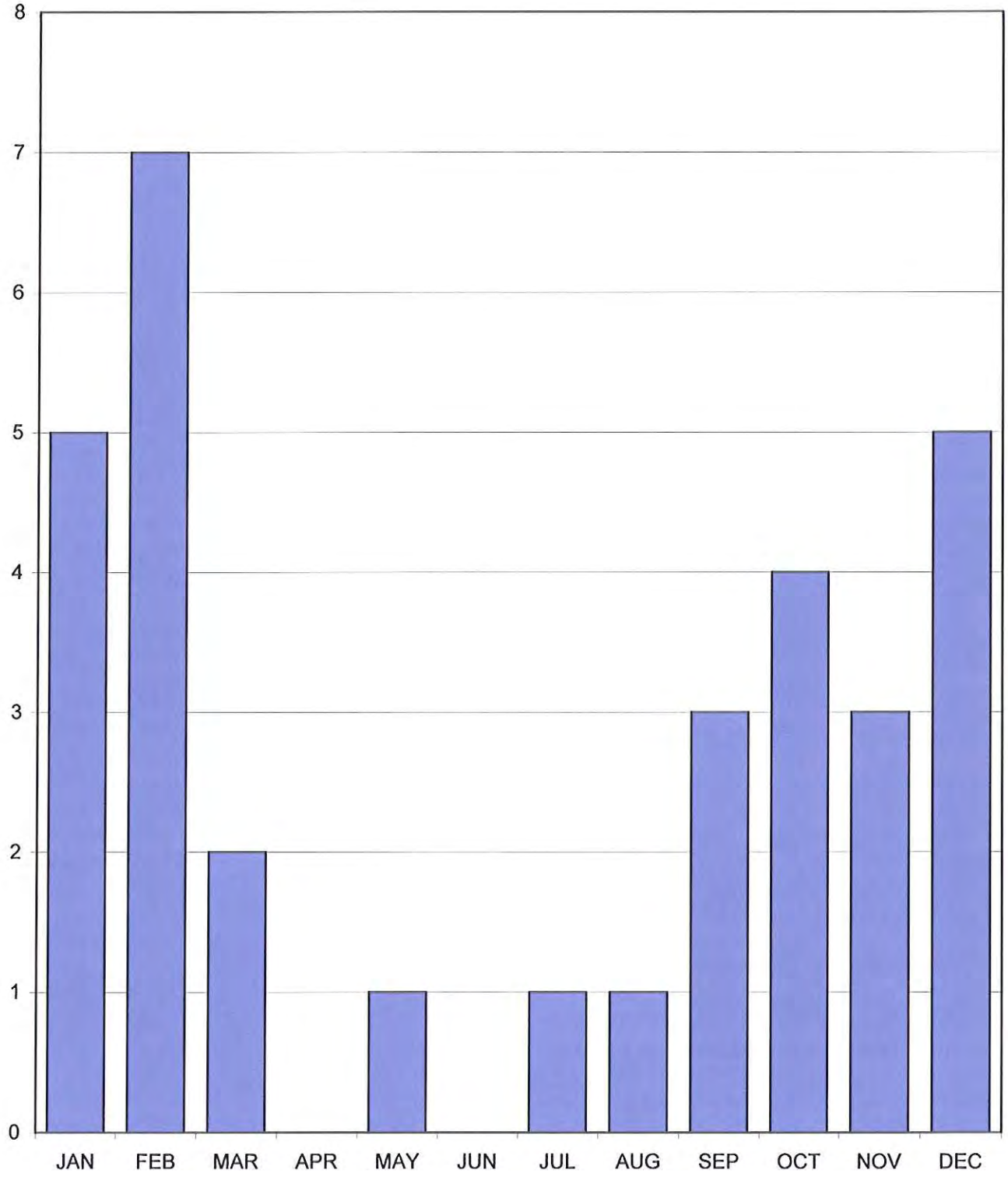
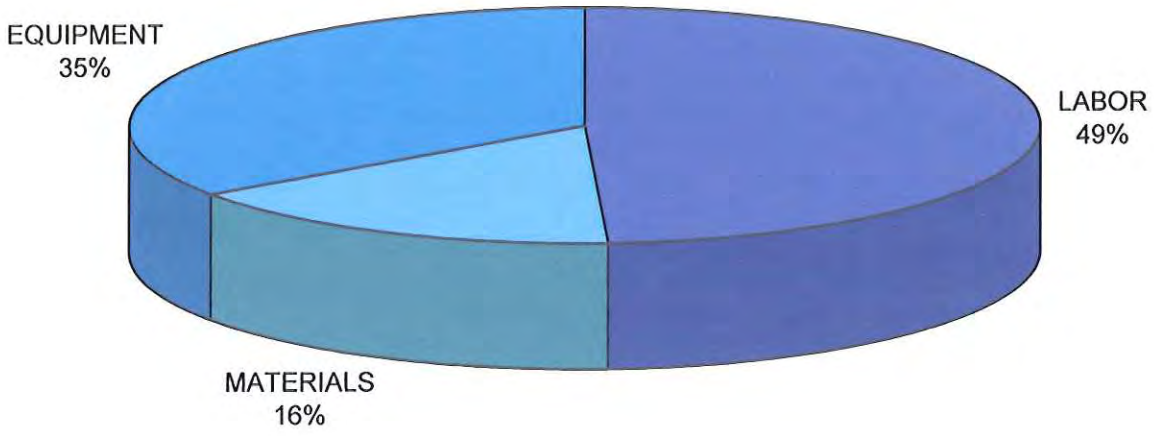
TOTAL MAINBREAKS 32 (2012-50) (2011-39)
BROOKWOOD FORCE MAIN BREAKS 1
TOTAL CALL-OUTS 13 (2012-15) (2011-19)
*** DENOTES CALL-OUTS**
AVERAGE COST TO REPAIR A WATER MAIN BREAK $2288.00
THIS TOTAL DOES NOT INCLUDE SITE RESTORATION COSTS.
(IE CONCRETE, ASPHALT AND LANDSCAPING)

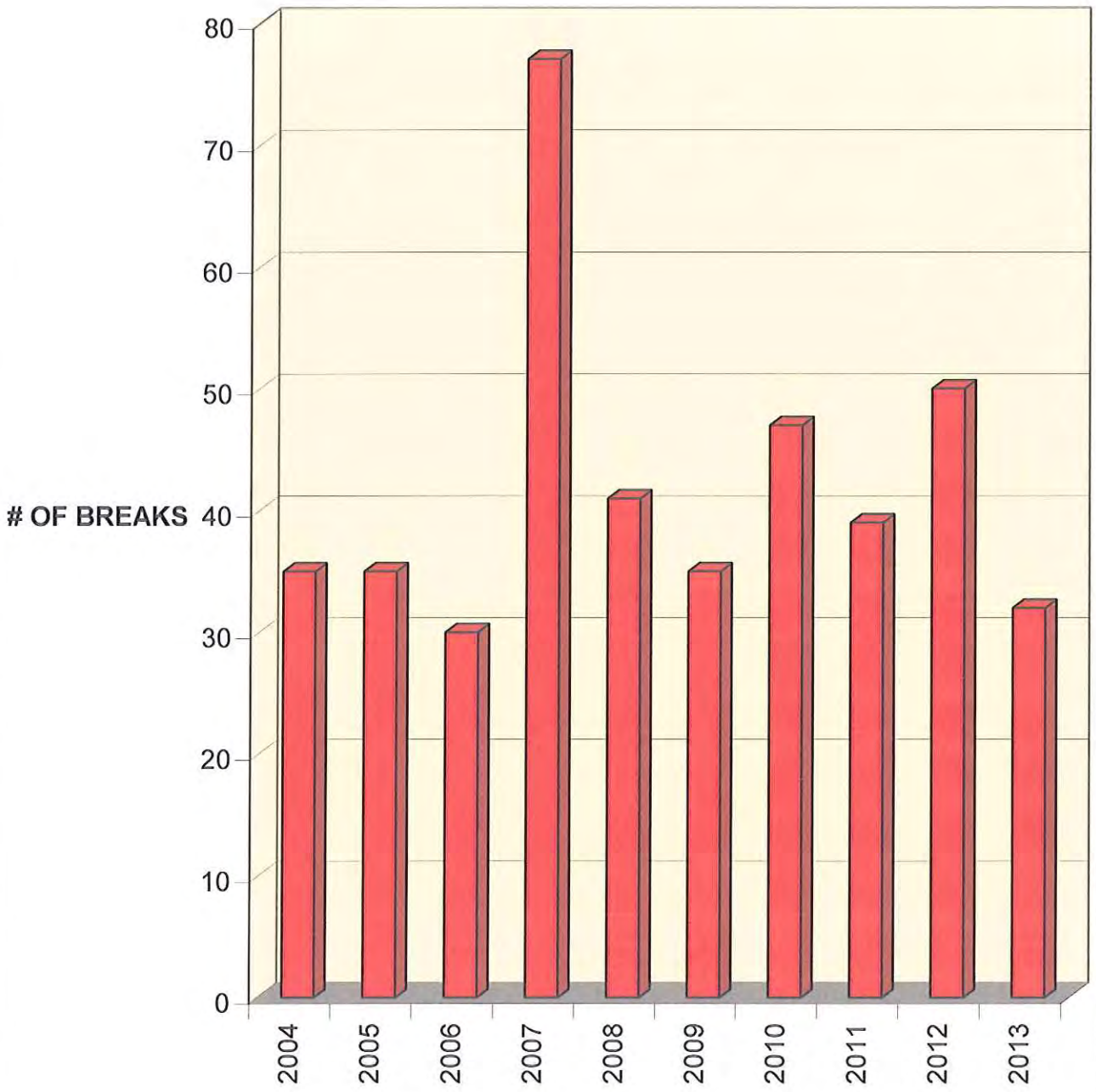
2013 WATER MAIN BREAKS BY MONTH



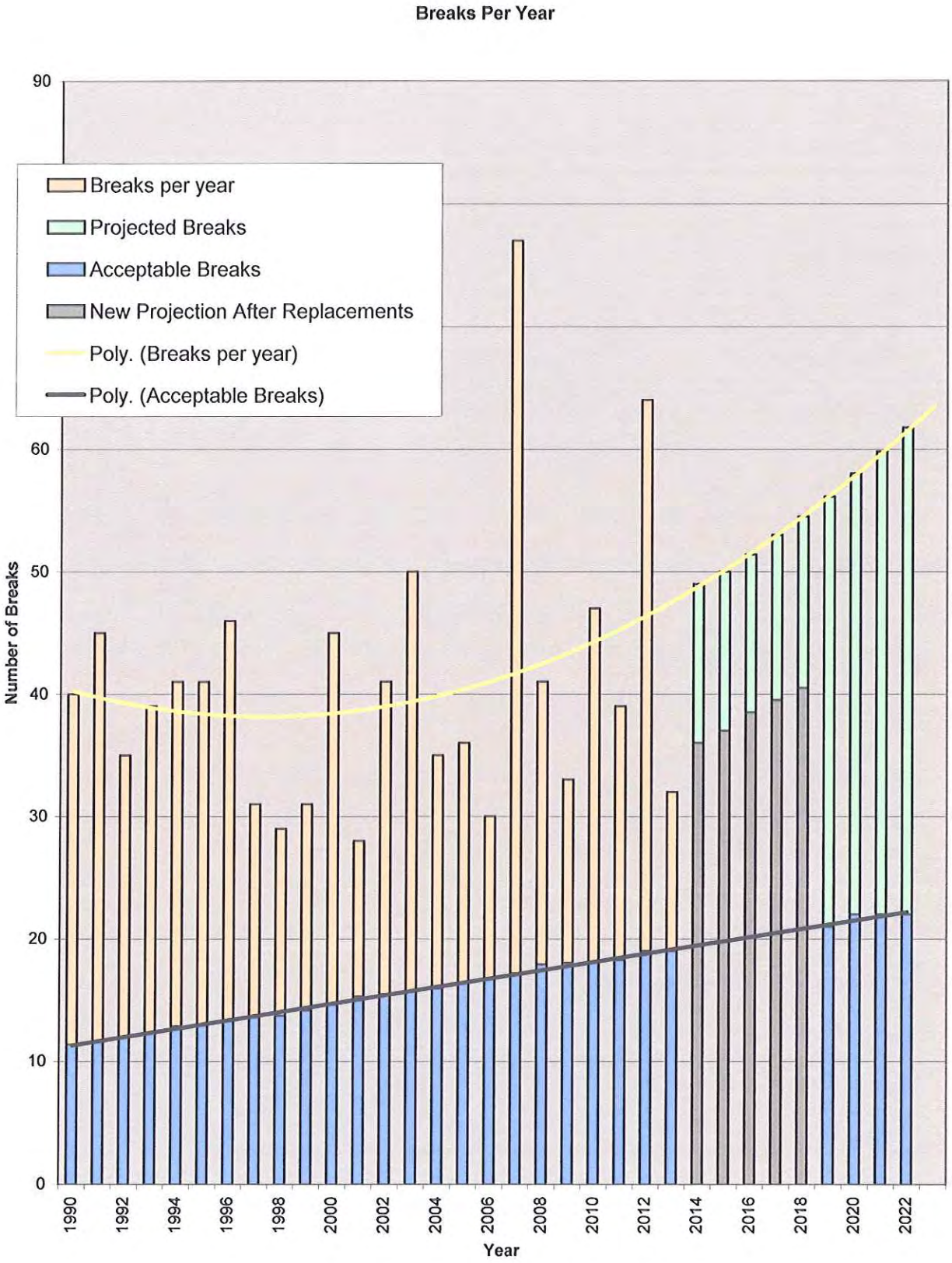
2013 WATER MAIN BREAK COST BY PERCENTAGE

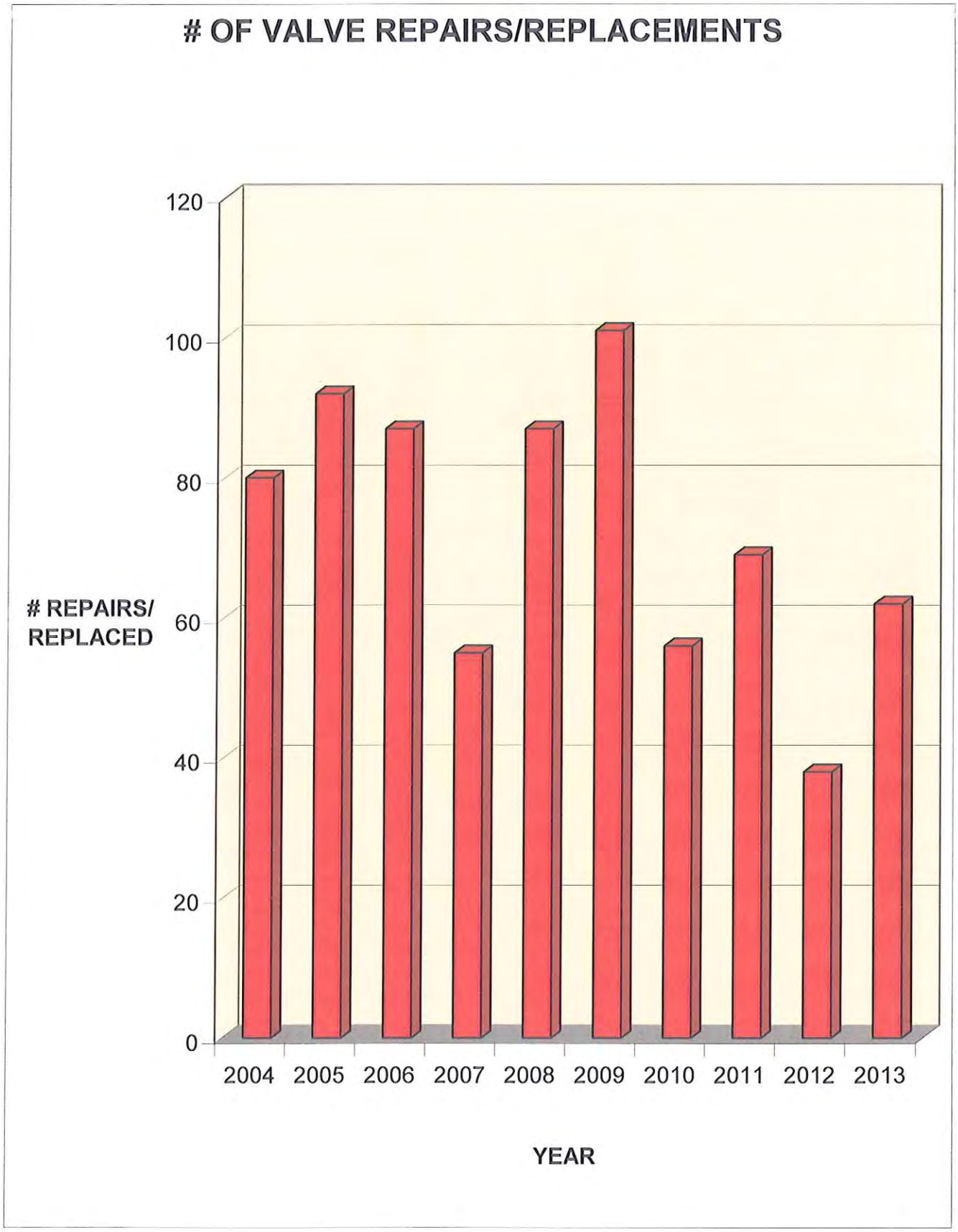


OF BREAKS BY YEAR



We are averaging approximately 42 main breaks/100miles/yr over the last 10yrs. Industry average is approximately 10-15 main breaks/100 miles/yr.


Breaks Per Year
Breaks per year
Projected Breaks
Acceptable Breaks
New Projection After Replacements
Poly. (Breaks per year)
Poly. (Acceptable Breaks)
Number of Breaks
Year
0
10
20
30
40
50
60
90
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
2022


OF VALVE REPAIRS/REPLACEMENTS
REPAIRS/ REPLACED
120
100
80
60
40
20
0
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
YEAR

WATER DISTRIBUTION
HYDRANT REPORT

OVERVIEW: The Water Distribution Department is responsible for the maintenance to the City's 1400+ fire hydrants. Our department works closely with Fire Chief Carl Rommel and his staff, in evaluating the condition of our hydrants. Each year based on available money, time, personnel and the Chief's priorities, we put a plan in place to maintain and improve our system.

1. FIRE HYDRANT FLUSHING PROGRAM: Each year, the Water Department conducts a systematic flushing of the City's water system. Although it is called a Hydrant Flushing Program, its main purpose is to flush the water mains.

Flushing the water mains allow us to remove iron and manganese deposits that accumulate on the inside of the pipes. These deposits are responsible for "red water" and for some odors. If not flushed out, they also cause the inside diameter of the pipes to become smaller, and therefore the pipes loose some of their capacity. The flushing of the water mains helps us to maintain the inside diameter of the pipes and to help provide a more palatable drinking water.

Our flushing program allows us the opportunity to conduct important basic maintenance on our fire hydrants. Fire hydrants are normally seen but not used, so flushing allows us to determine the overall condition of our hydrants. A properly working fire hydrant can be the difference between the saving or loosing of life and property.

During our flushing we collect flow and pressure data at every fire hydrant that we use. The Fire Department uses this information for fire fighting planning. Flow amounts also give us indicators that we can use to assess what condition valves and other parts of system are in.

(flushing program continued)

Flow and pressure data can have a considerable impact on the fire insurance rates that Wadsworth residents must pay. The more reliable the water system is, the lower the rates for residential and commercial fire insurance in the City.

In **2013**, we conducted our flushing program during the month May. The flushing program took 8 days to complete. This year all of the **low** side was flushed. There were also various hydrants flushed during main line maintenance activities that are accounted for in the number below.

HYDRANTS FLUSHED: 482 (2012-1131)(2011-497)

2. **HYDRANT MAINTENANCE:** During the summer months, when the department has additional Summer Help, we schedule important maintenance on the City's hydrants. The Summer Help paint, check for missing parts, and where needed remove weeds from around the fire hydrants. This past year we accomplished the following:

Removal of Weeds:	274	HYDRANTS (2012-244)(2011-210)
Hydrant Painting:	499	HYDRANTS (2012-344)(2011-532)
Repair Work Orders:	49	HYDRANTS (2012-97) (2011-62)

3. HYDRANT REPLACEMENT/NEW HYDRANTS: Based on the Fire Departments priorities and or the result of a hydrant that is beyond repair, the department replaced hydrants at the following locations:

398 MAIN

Rt. 94 WATER TOWER

TOTAL HYDRANTS REPLACED: 2 (2012-7)(2011-2)

WATER SERVICE REPORT

SCOPE: Water services are the portion of the water system that feeds from the main directly into a home or building. The City maintains services from the water main to the shut off box (normally located in the tree lawn). The homeowner is responsible for the service line from the service box to the house.

INSPECTIONS: The City inspects all new water services that are installed in the City.

1. NEW ALLOTMENTS INITIAL INSPECTIONS: In new allotments the initial inspection is conducted by the Engineering Dept. The inspector checks for the use of correct materials, proper depth and location.

2. NEW ALLOTMENT FINAL INSPECTIONS: Final inspections are normally conducted by the Meter Dept. This inspection is to insure that the shut off valve can be operated properly from above ground and makes a final check for the correct depth and conducts a pressure test to insure that there are no leaks. Our Department assists as necessary in these inspections.

REPLACEMENTS/REPAIRS: Our Department is responsible for all repairs and maintenance of water services in the City. Our responsibility is from the water main to the curb stop.

GOALS: It is the goal of this Department that all services are in proper working order and that all services can be located, operated, are in the proper location, and at the proper elevation.

During the past year we installed or repaired water services at the following locations.

REPAIR:		**NEW:**	
216 Water	?	467 Sparrow Way (II)	1"
165 Mills	?	764 College St.	1"
168 High	1"		
170 Main	¾"		
266 E.Good	?		
130 Euclid	?		
170 Main	¾"		
151 Southpark	¾"		

(water service report continued)

REPAIR:

202 Overlook	¾"
197 Maylawn	?
275 Brookwood	¾"
813 Highland	¾"
385 N.Avon	?
346 N.Avon	?
168 Fairlawn	?
212 Durling	?
142 First	¾"
177 Simcox	¾"
314 Broad	¾"
166 Franks	?
432 N.Lyman	¾"
176 Broad	?
191 Gordon	¾"
147 Franks	¾"
453 Farr	¾"
S.Lyman@Wright Dr.	?
286 Durling	?
139 Tolbert	¾"
395 Sunset	?
323 Tanglewood	?
190 Fairlawn	¾"
Across from 133 Fairlawn	Abandon
740 Thelma	?
313 Tanglewood	?
299 East	¾"
197 Wolf	¾"
650 Red Rock	?
184 Wolf	¾"
168 Euclid	¾"
145 E.Boyer	¾"
139 Beck	¾"
274 East	¾"
660 Silvercreek	?
366 Barrenwood	¾"
430 Durling	?
268 Durling	¾"
276 Durling	¾"
116 First	¾"
278 High	?
230 E.Walnut	?
138 Fairlawn	?
135 Park	?
802 High abandon	1"
241 State abandon	1"

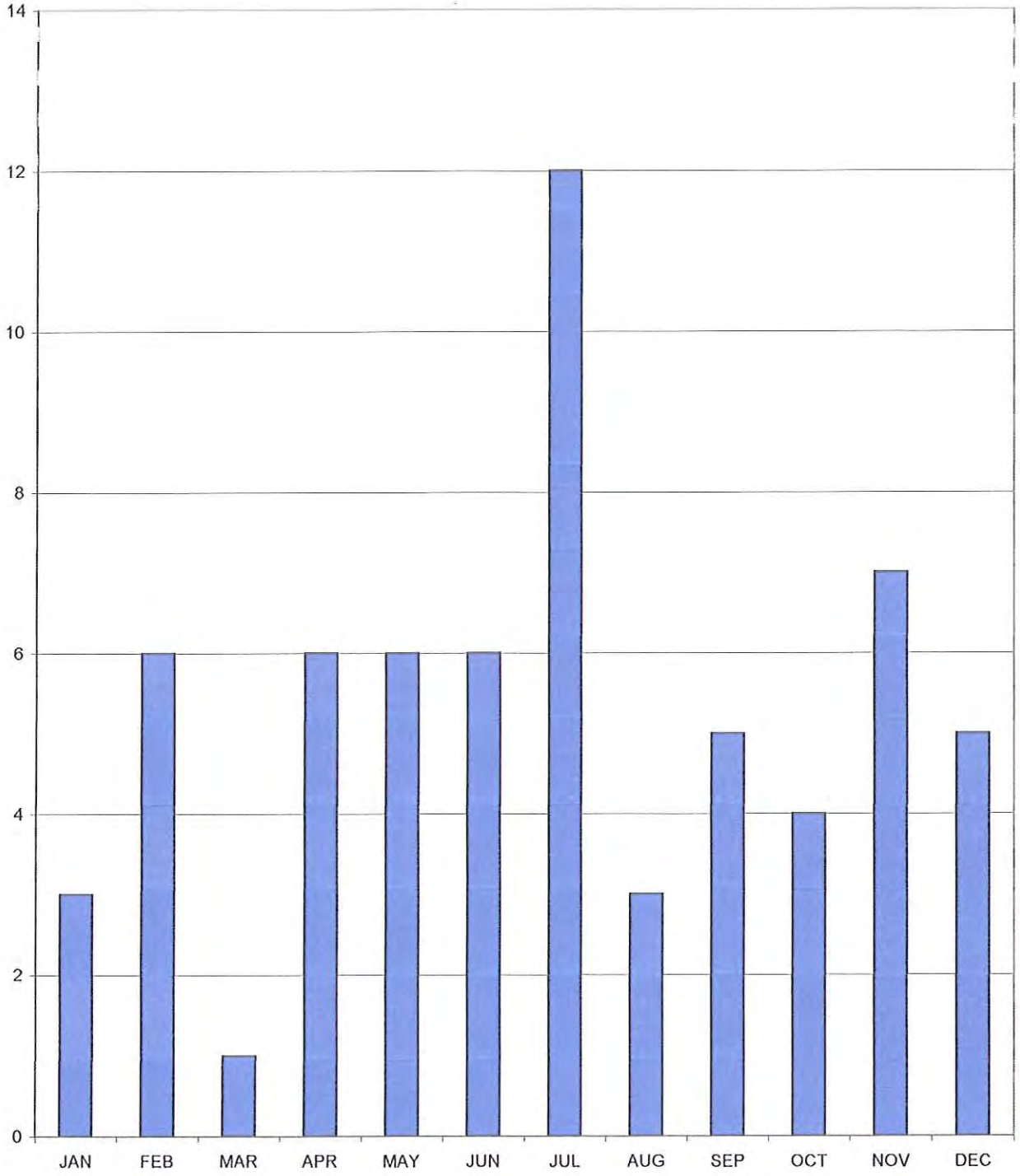
(water service report continued)

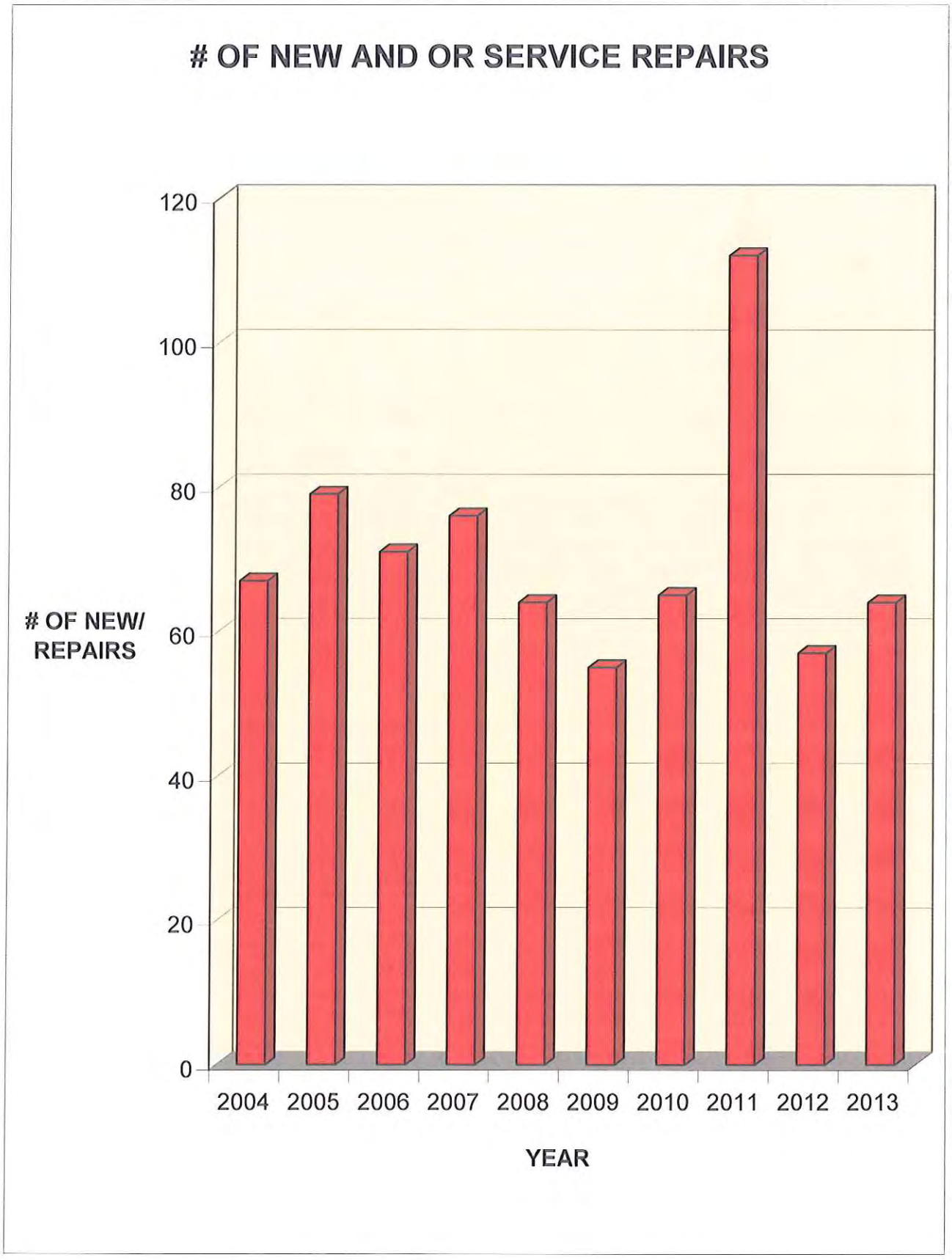
REPAIR:

Art Wight Stadium abandon	2"
781 Hiddenvalley	?
542 Broad	1"
138 HIGH	?
282 N.PARDEE	?
243-245 WATER	¾"
454 SPRINDALE	?

TOTAL NEW SERVICES:3 (2012-9)(2011-5)
TOTAL REPAIRS:61 (2012-48)(2011-107)

SERVICELINE WORK ORDER REQUEST BY MONTH
(NEW SERVICES AND REPAIRS)




OF NEW AND OR SERVICE REPAIRS
OF NEW/ REPAIRS
120
100
80
60
40
20
0
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
YEAR

WASTEWATER COLLECTION
SANITARY SEWER & MANHOLE REPORT

1. SEWER CLEANING: The City of Wadsworth is responsible for the repair and cleaning of sanitary sewer main lines and manholes.

In **2013** there were **64,177' (12 miles)** of sanitary sewer cleaned. (2012-57,454' (11 miles)) (2011-107,137' (20 miles))

Trouble spots went from being cleaned every month to every other month in 2012.

2. SEWER TELEVISING: This department televises sanitary sewers as part of an on going program to televise the entire system.

In **2013** there were **29,623' (6 miles)** of sanitary sewer televised (2012-35,516' (7 miles)) (2011-49,707' (9 miles)).

In **2013** Redzone televised **144,000'** (27 miles) of sanitary sewer as part of their program.

3. SEWER ROOT TREATING: In **2013** a contractor applied **5657' (1 mile)** of tree root control chemical. (2012-7854' (2 miles)) (2011-6589' (1 mile)) Root treating is scheduled as a result of televising sewer mains to determine the condition of the main. In order to prevent a blockage, the roots are killed with a chemical agent. Applying root control chemicals is a temporary repair to delay the damage that will eventually be caused by the roots. The areas where roots are identified should be replaced with plastic pipe or lined with a cip liner.

4. MANHOLE OVERVIEW: Sanitary manholes provide the access point needed for the inspection and maintenance of the entire sanitary sewer system. Over time traffic and weather changes take their toll on sanitary manholes. Most of our older manholes are located in the center of our streets and if not properly taken care of can cause serious damage to automobiles and possibly their drivers.

(sewer/manhole report continued)

5. MANHOLE REPAIRS: This past year we made repairs to **124** manholes.(2012-33)(2011-44)

The increase in repairs is due the start of the Redzone project in 2013.

6. MANHOLE INSPECTIONS In **2013** we inspected/located **2386** sanitary sewer manholes. (2012-762)

The increase of inspections/locations is due to the manhole numbering and locating project for Redzone.

7. SANITARY SEWER TROUBLE CALLS: The goal of this department is to eliminate all sanitary sewer trouble calls that are the result of a blockage in the sanitary mains. The trouble calls that we responded to this year are on the following pages, along with a chart representing the different trouble call categories and the percentages for each category.

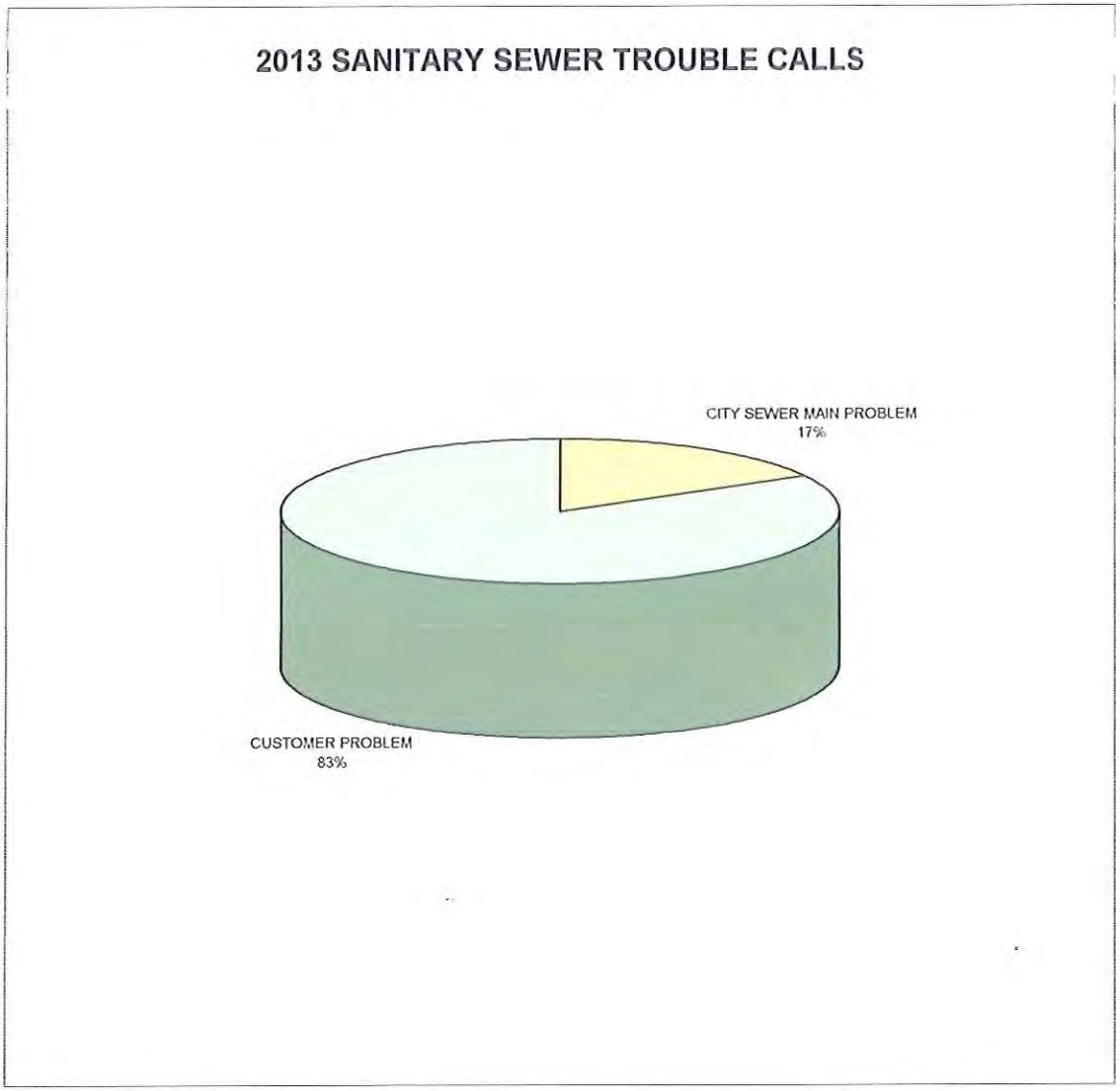
WATER DEPARTMENT

SANITARY SEWER TROUBLE CALLS

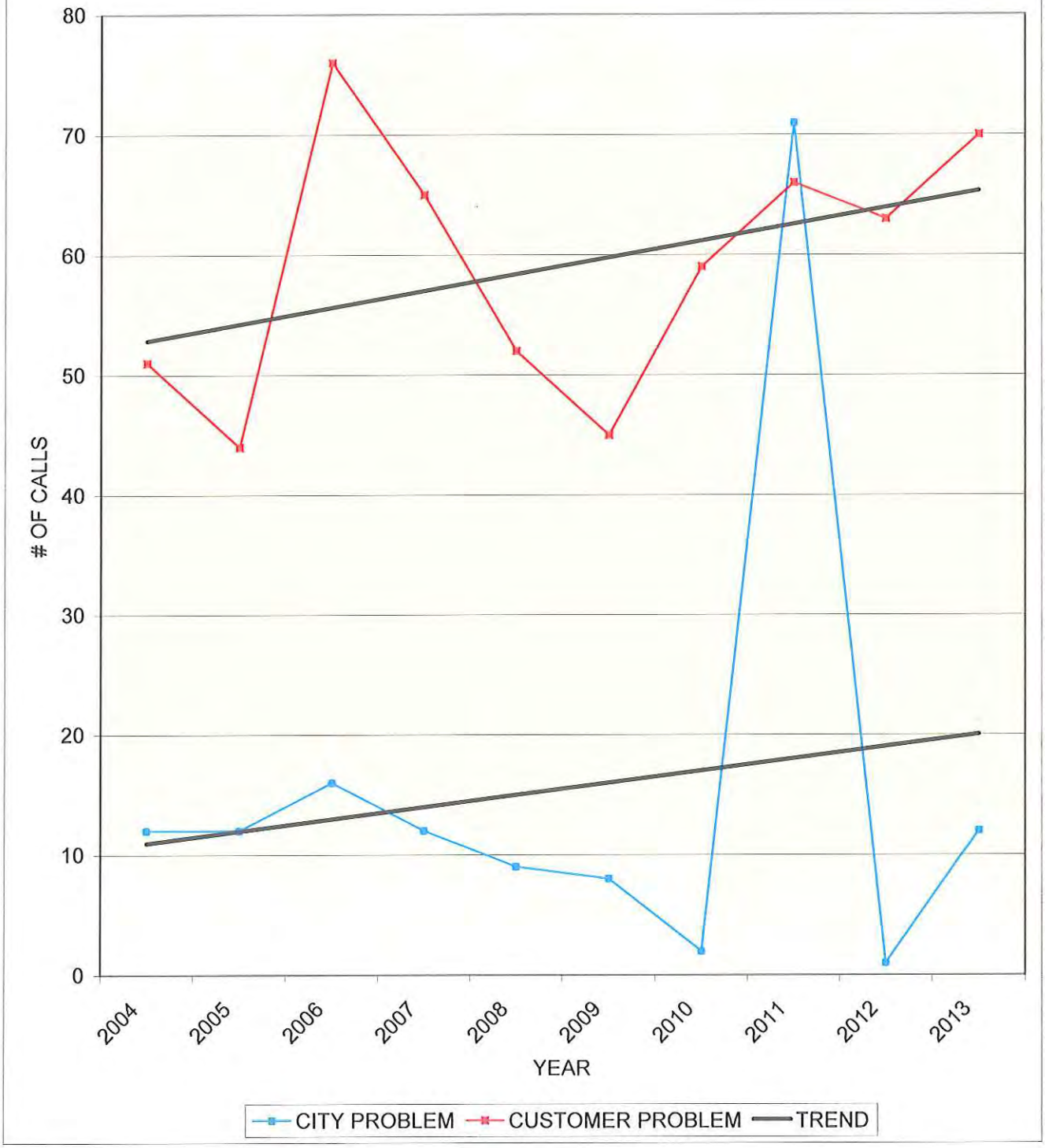
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CITY SEWER MAIN PROBLEM	0	2	2	2	1	0	7	0	0	0	0	0	14
CUSTOMER PROBLEM	14	5	5	4	6	10	5	1	5	3	2	8	68

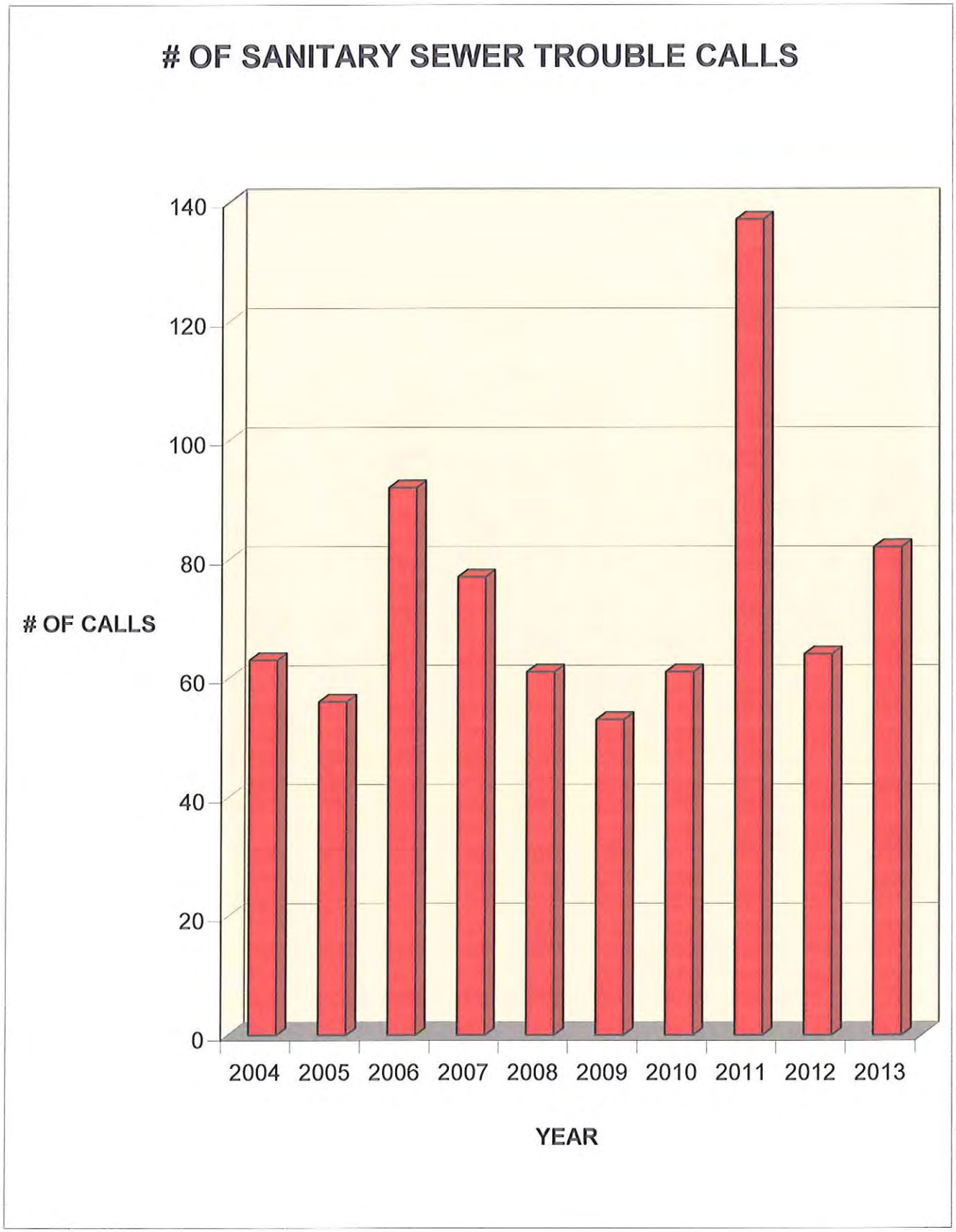
TOTALS ***82***

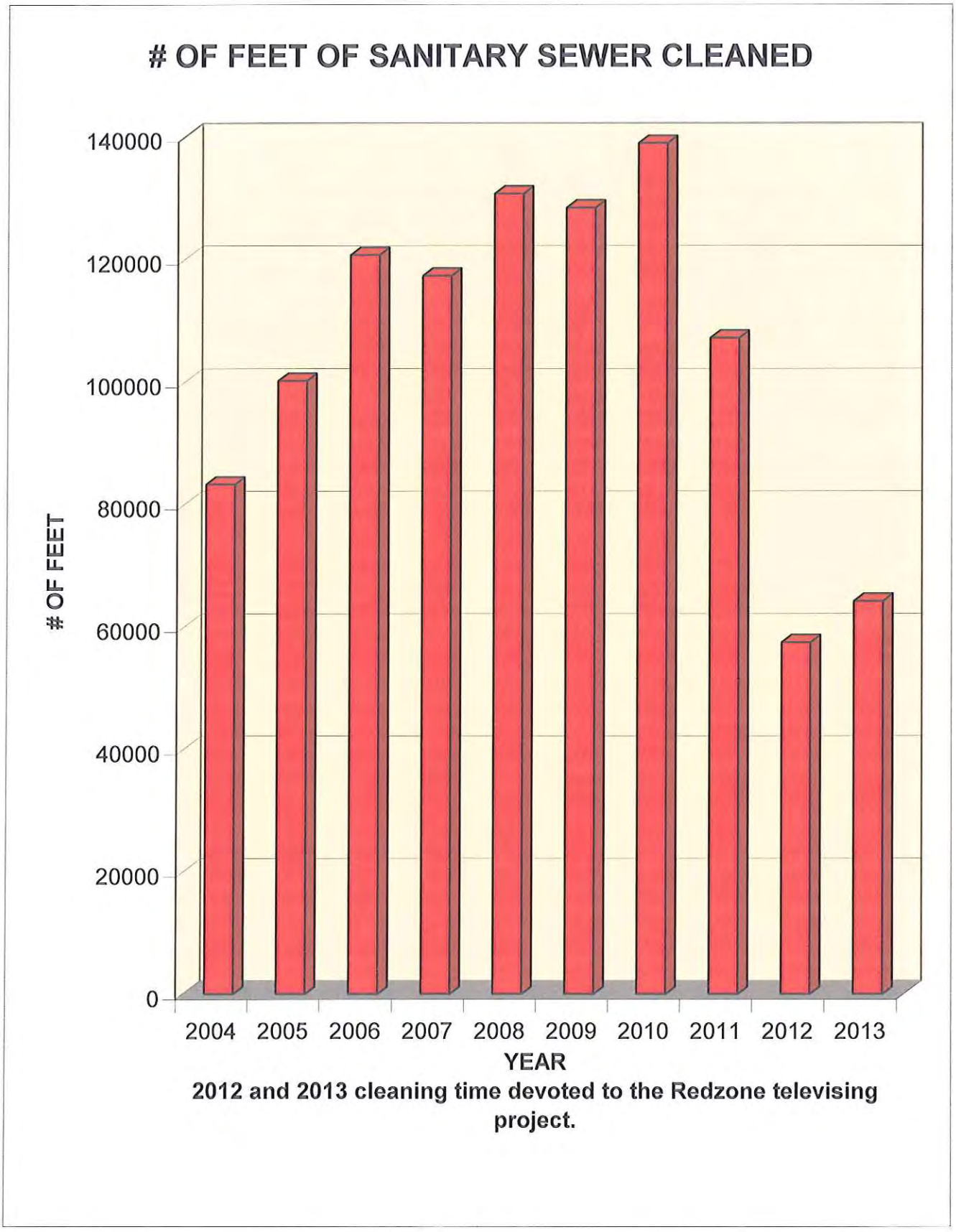
(2012-64) (2011-137)



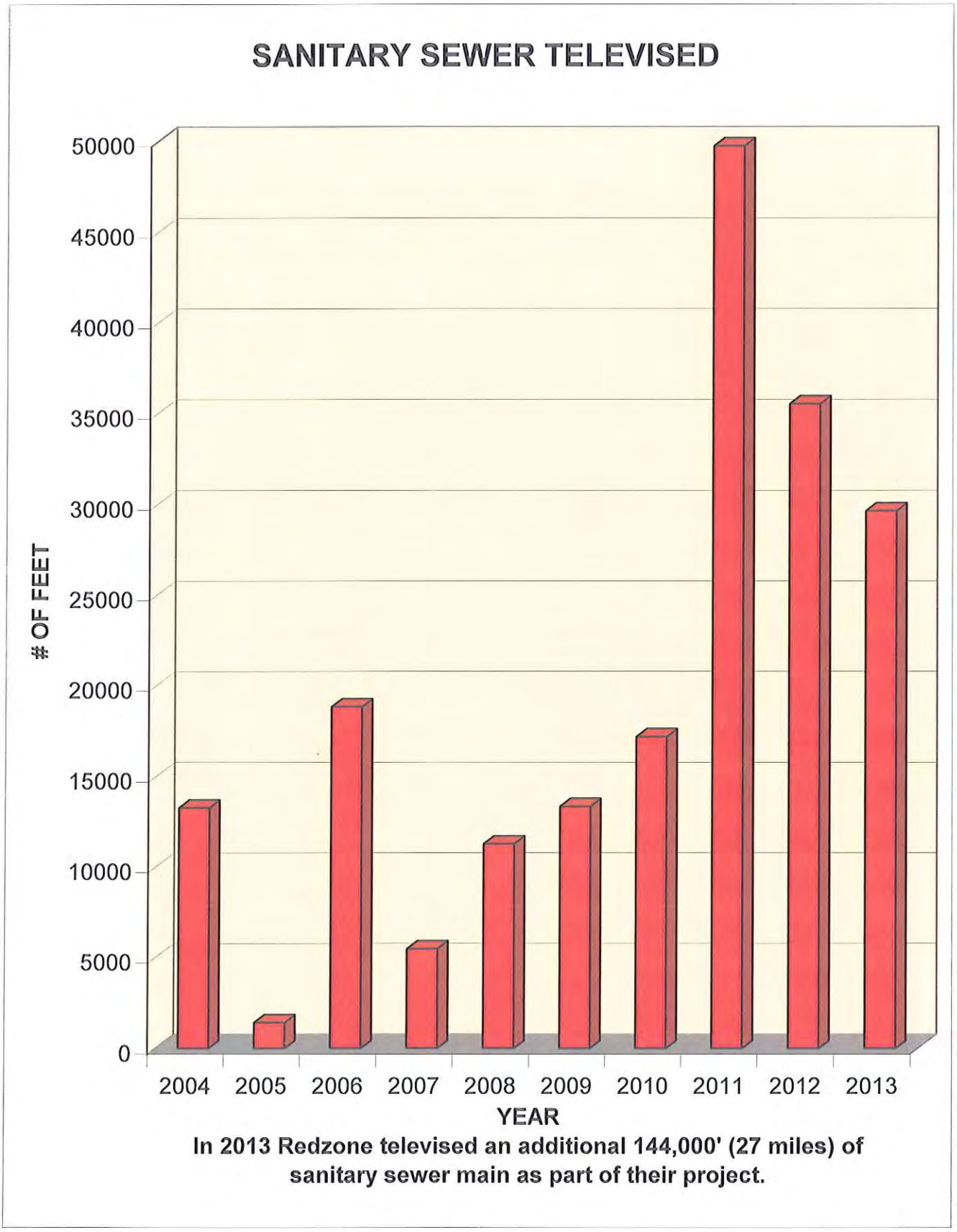
SANITARY SEWER CALLS COMPARISION



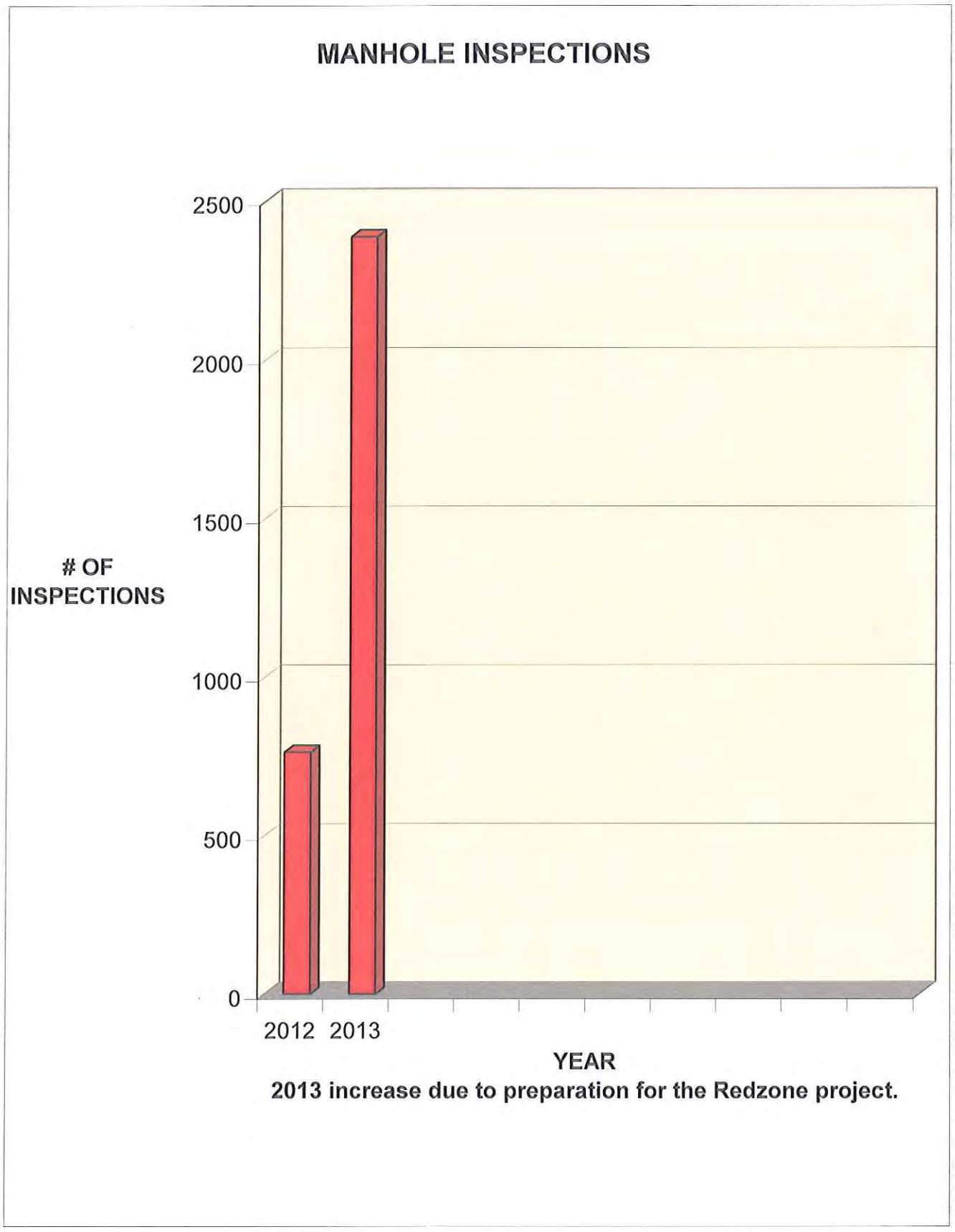

OF SANITARY SEWER TROUBLE CALLS
OF CALLS
140
120
100
80
60
40
20
0
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
YEAR



2012 and 2013 cleaning time devoted to the Redzone televising project.



In 2013 Redzone televised an additional 144,000' (27 miles) of sanitary sewer main as part of their project.


MANHOLE INSPECTIONS
2500
2000
1500
1000
500
0
OF INSPECTIONS
2012
2013
YEAR
2013 increase due to preparation for the Redzone project.

Lift Stations

The City of Wadsworth owns and operates four lift stations. They are located on Brookwood Ave., Reimer Rd. the Weatherstone development, Rt.261 at the Crossings and Great Oaks Tr. the Sterling Oaks development.

A lift station is used to pump sewage from a low area that cannot be serviced by a gravity flow sewer to an area that is served with a gravity flow sewer. Each station has two pumps that under normal conditions operate in an alternating manner with only one pump running at a time. The second pump is there for a backup and in some high flow situations the pump station may need to run both pumps at the same time.

The lift stations are checked each day. These checks are necessary to insure that the stations are operating properly and no backups are occurring. Because these stations cannot be shut down it is critical that the proper maintenance be performed on the pumps and motors. Some of this maintenance is performed during these daily checks. As the areas these lift stations service continue to grow, so does the demand put on the pump stations.

In 2005, all of the City owned lift stations had remote monitoring systems installed. This allows all of the stations to be monitored 24/7. The installation of this monitoring system has eliminated the need for evening visits to the stations by maintenance personnel. Morning checks are still performed.

In **2013,** the City spent **$15,520** repairing and maintaining the four stations. (2012-$26,517) (2011-$53,176) These costs do not include the labor or electricity needed to run the stations. Also in 2011, the two manholes that the Crossings lift station and the Weatherstone lift station force mains empty in to were lined by an outside contractor. These two concrete manholes were deteriorating due to hydrogen sulfide. The lining will protect the concrete surfaces from the effects of the hydrogen sulfide. In 2013 the new Brookwood force main and lift station project began and will be put in service replacing the existing lift station in 2014.

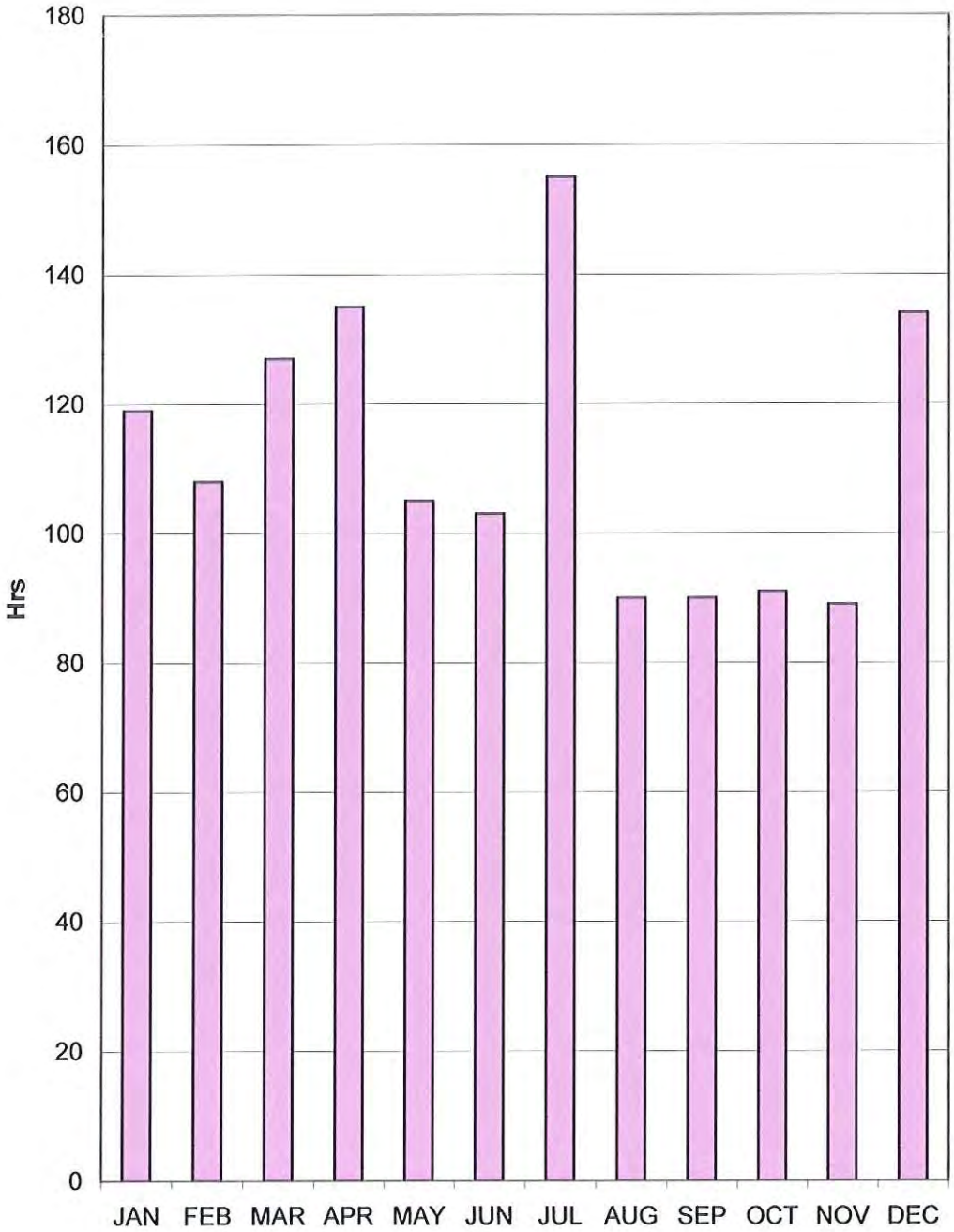
*The Weatherstone station was not the City's responsibility until 12/31/10.

* The Weber Dr. lift station was taken out of service 2/20/13. A new gravity sanitary sewer was installed on Weber Dr. allowing for the abandonment of the existing station.

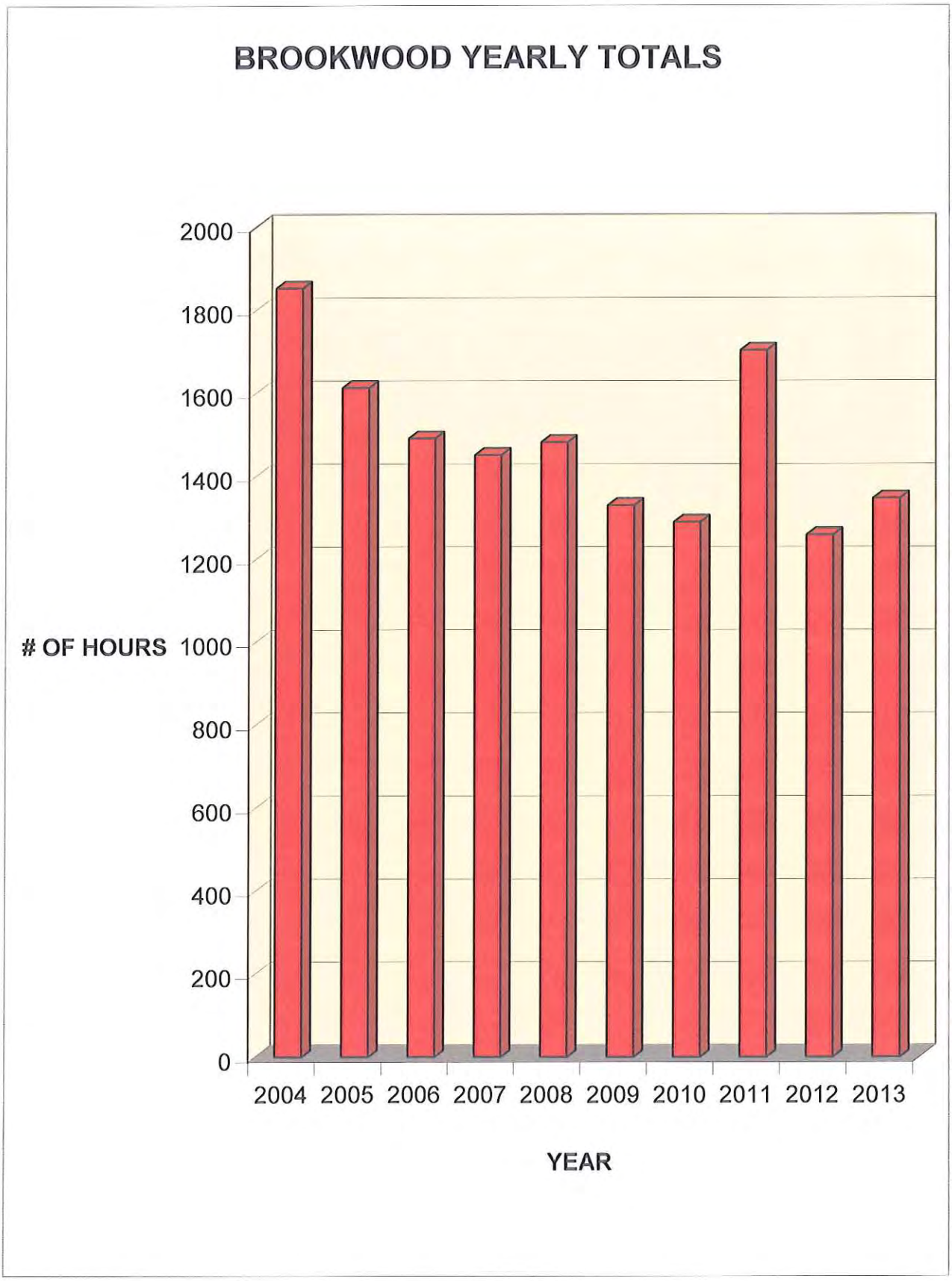
The yearly pumping totals (in hours) for all four stations are as follows:

2013 Brookwood
Monthly Hours of Operation

Total Hours **1346** (2012-1258) (2011-1702)



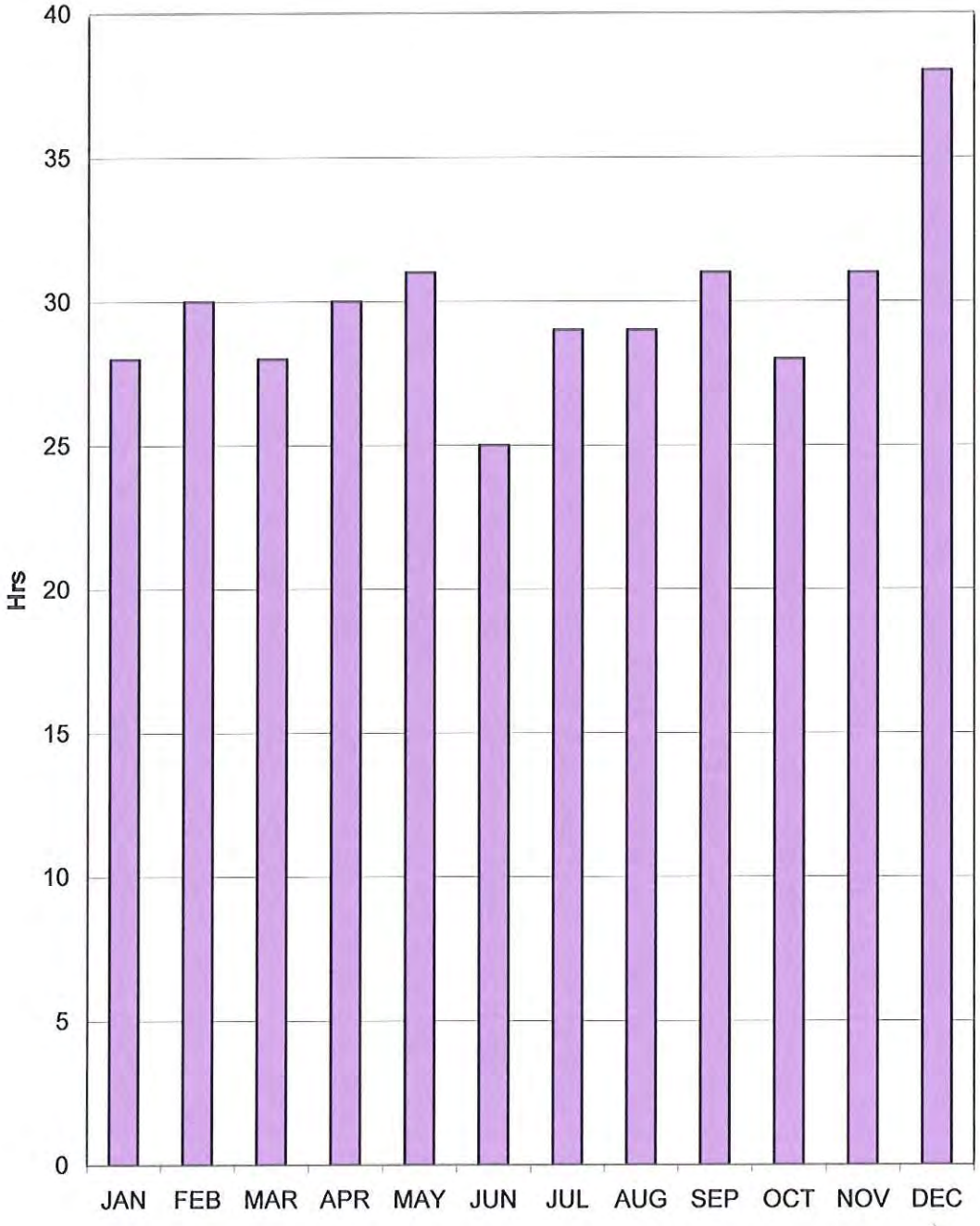
PEAKS DUE TO I AND I


BROOKWOOD YEARLY TOTALS
OF HOURS
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
YEAR

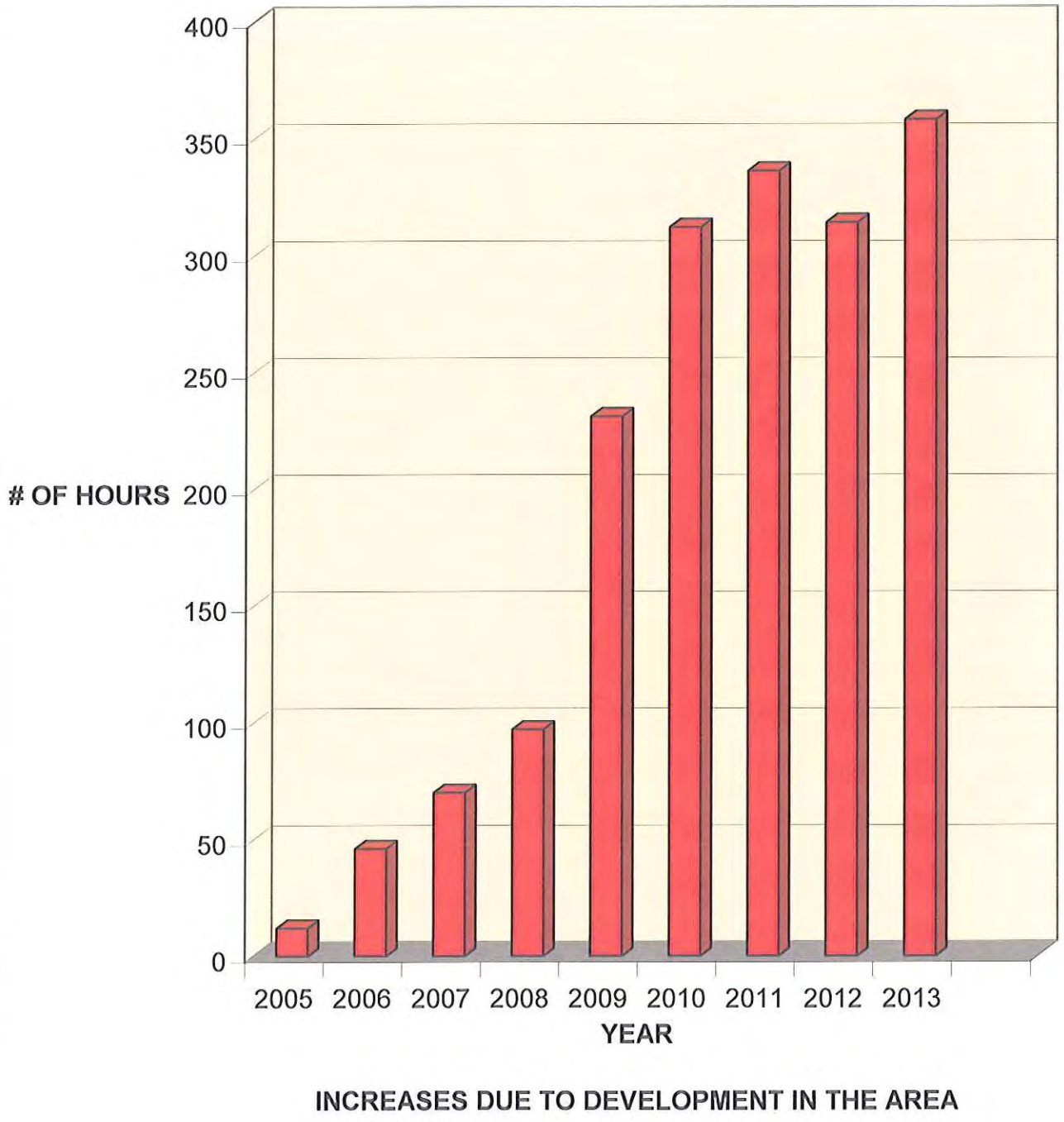
2013 CROSSINGS

Monthly Hours of Operation

Total Hours **358** (2012-314)(2011-336)



CROSSINGS YEARLY TOTALS

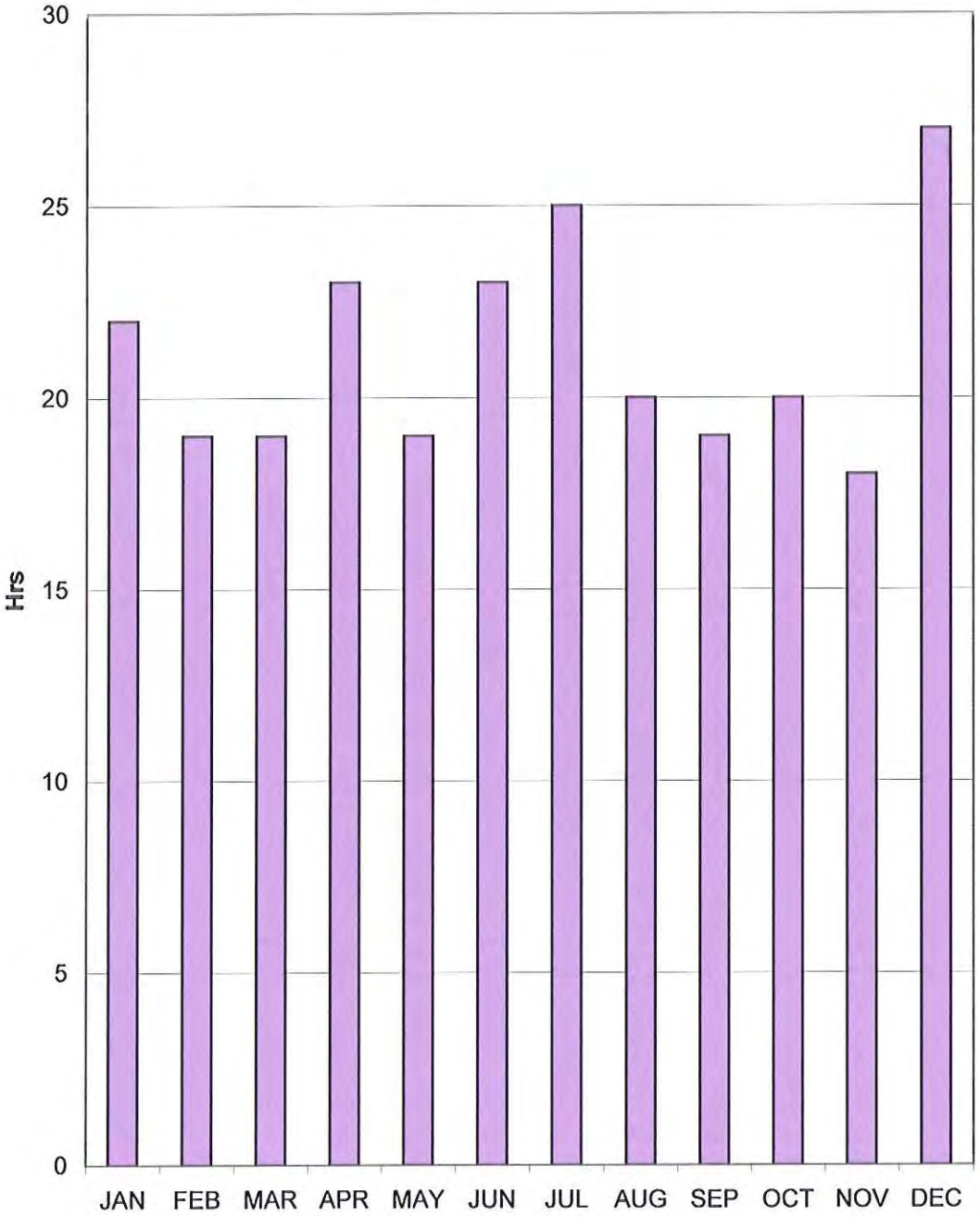


INCREASES DUE TO DEVELOPMENT IN THE AREA

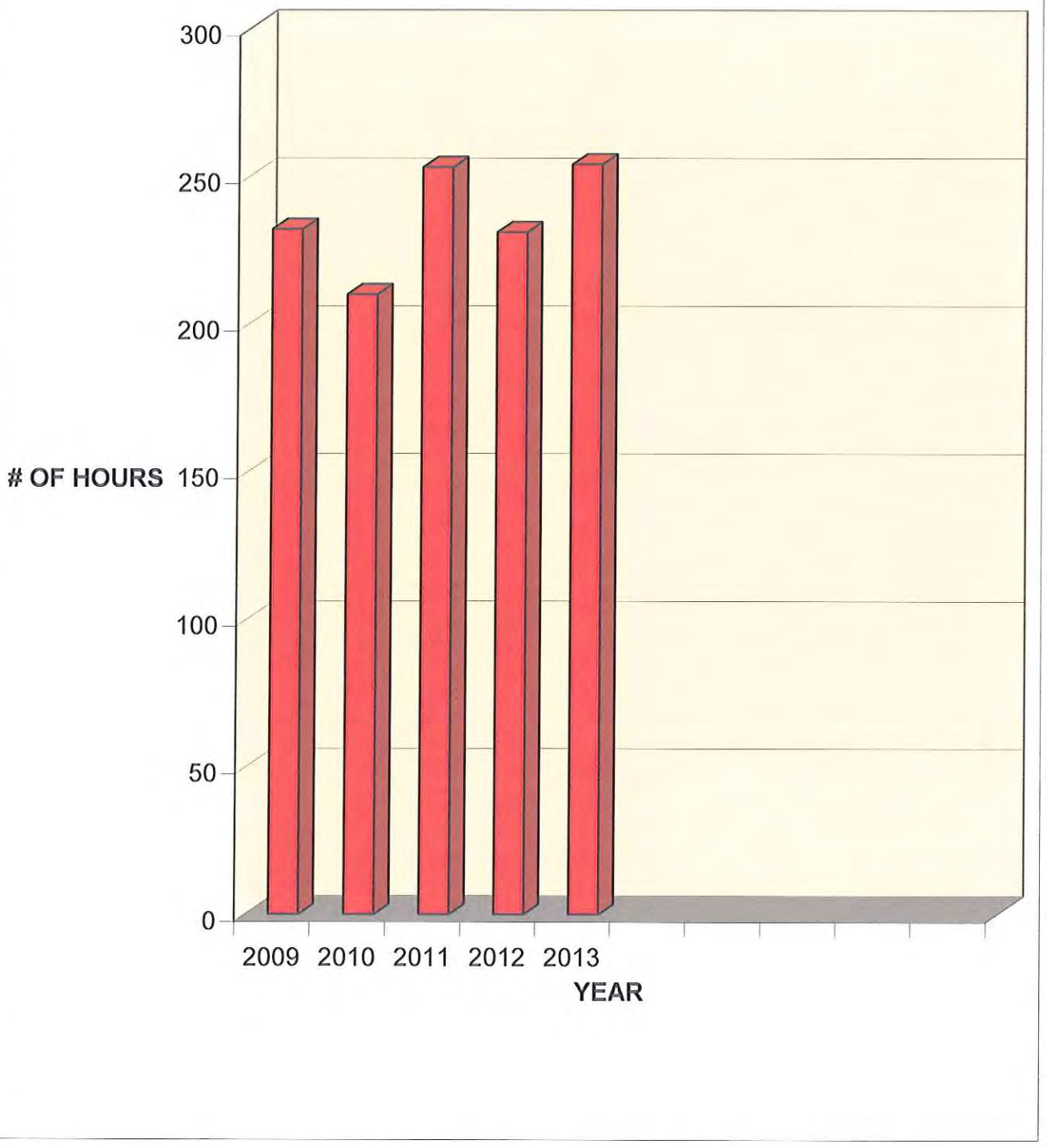
2013 Sterling Oaks

Monthly Hours of Operation

Total Hours **254** (2012-231)(2011-253)

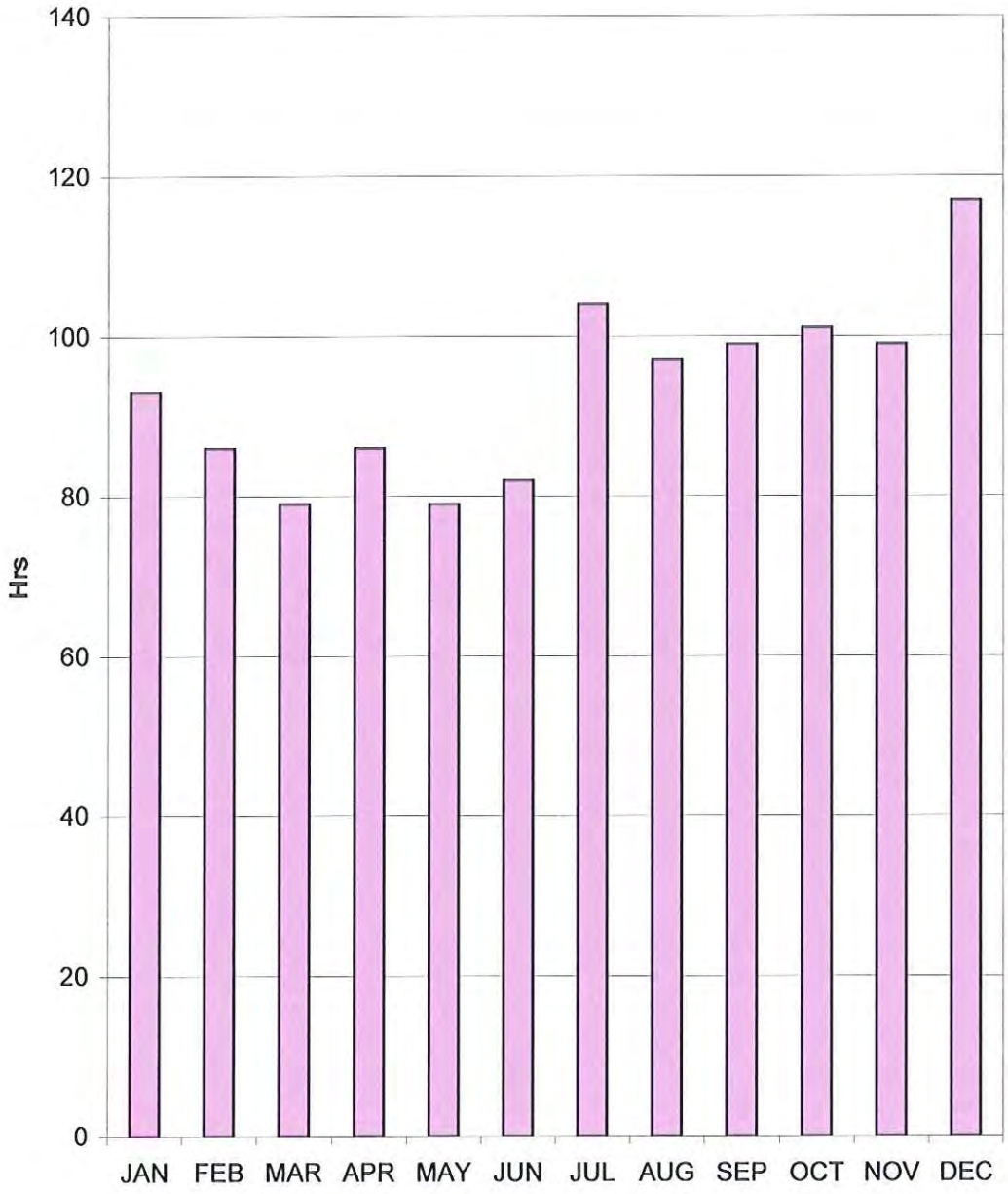


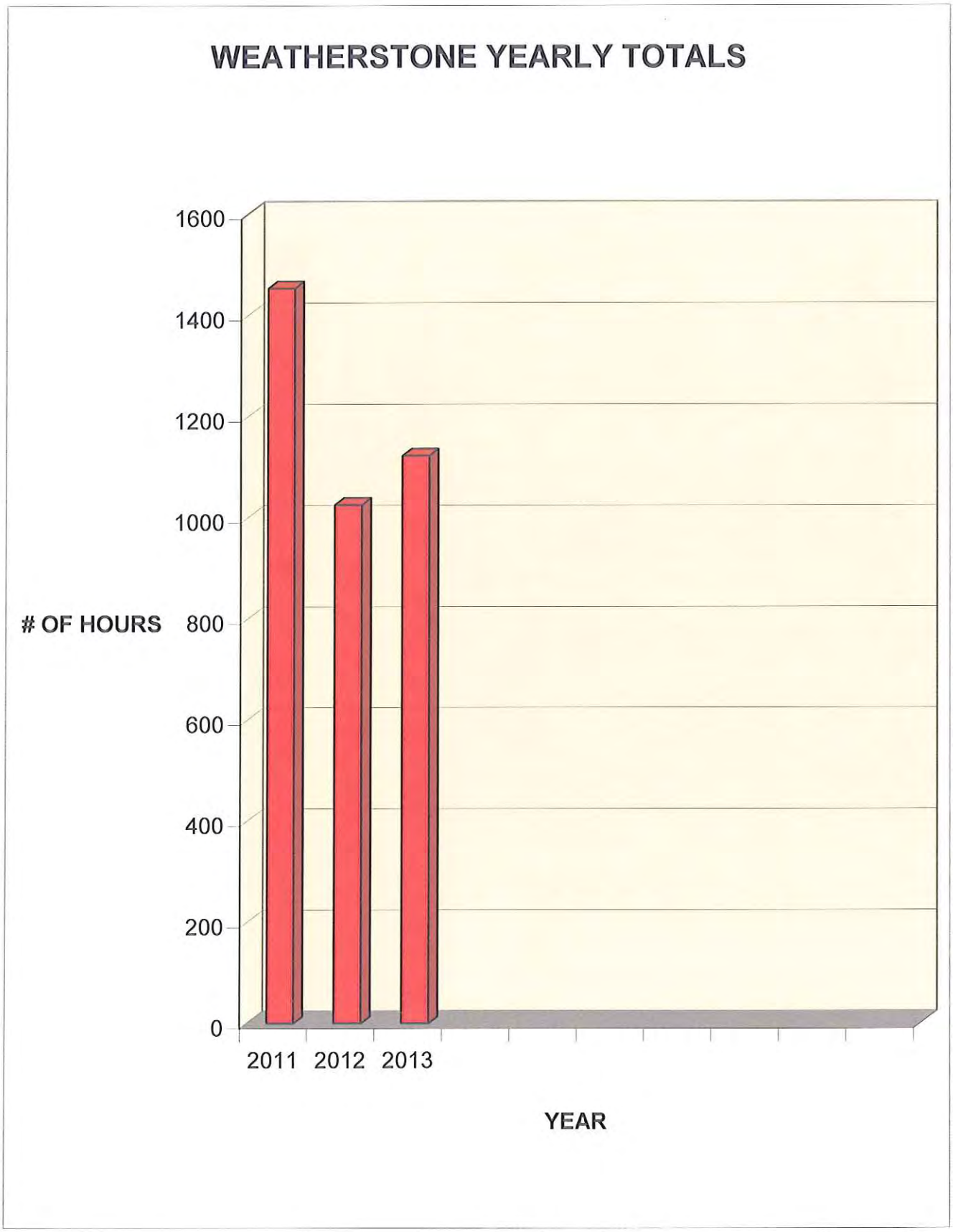
STERLING OAKS YEARLY TOTALS



2013 Weatherstone
Monthly Hours of Operation

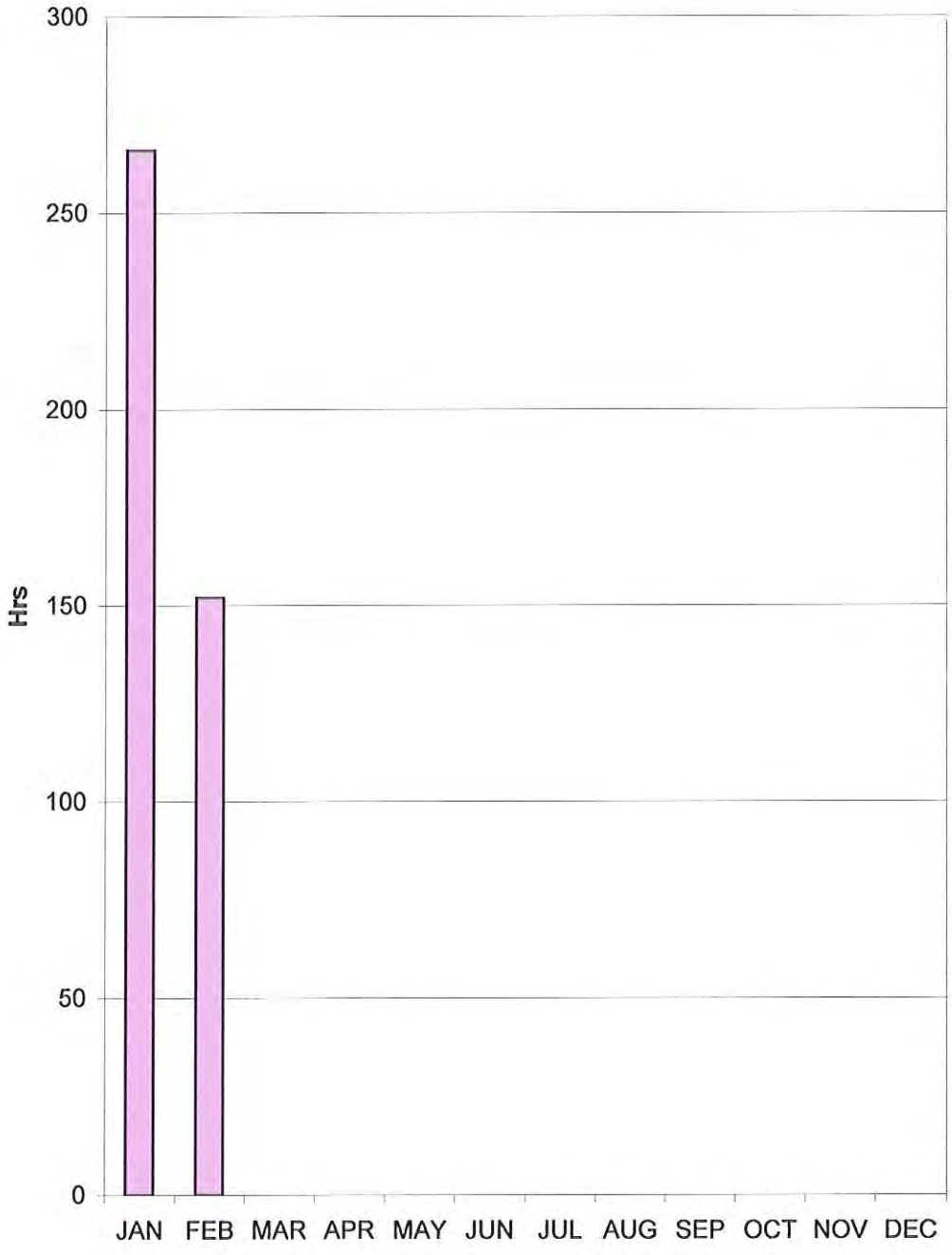
Total Hours **1122** (2012-1025) (2011-1453)

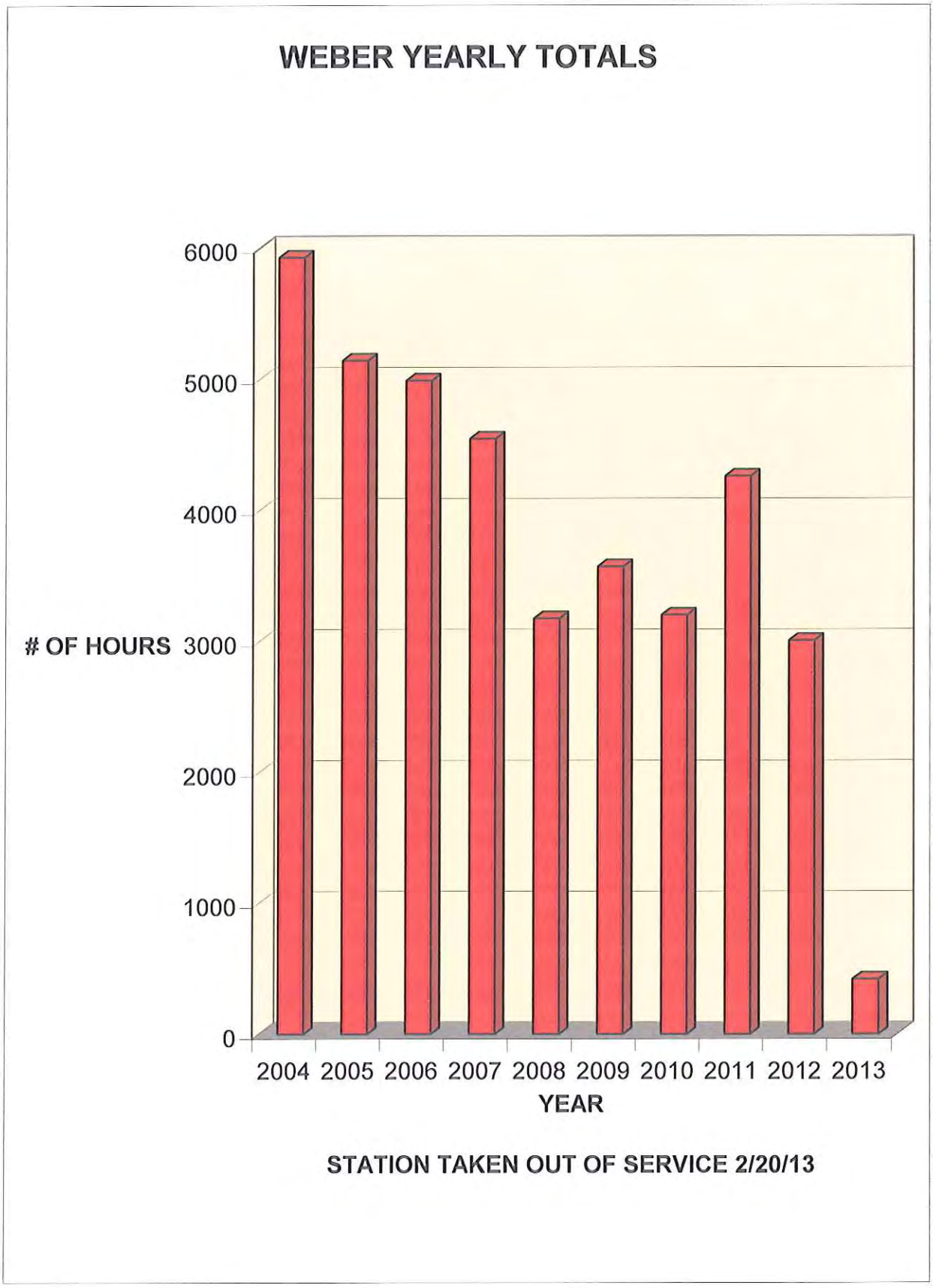



WEATHERSTONE YEARLY TOTALS
OF HOURS
1600
1400
1200
1000
800
600
400
200
0
2011
2012
2013
YEAR

2013 Weber
Monthly Hours of Operation

Total Hours **418** (2012-3003) (2011-4258)
Taken Out of Service 2/20/13




WEBER YEARLY TOTALS
6000
5000
4000
3000
2000
1000
0
OF HOURS
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013
YEAR
STATION TAKEN OUT OF SERVICE 2/20/13

WATER DISTRIBUTION AND WASTEWATER COLLECTION
2013 EMERGENCY CALLOUTS

EMERGENCY CALLOUT OVERVIEW:

This department maintains a two man, 24/7 standby list for emergency callout situations. Emergency callouts are times, other than regular working hours, when someone or some thing needs the attention or services of this department.

EMERGENCY CALLOUT CATEGORIES:

The emergencies that we respond to are categorized as follows:

WATER MAINS	FIRE HYDRANTS
SANITARY SEWERS	WATER SERVICES
STORM DAMAGE	OTHER CITY EMERGENCIES AS NEEDED

STANDBY PERSONNEL:

Two employees are on standby for this department 24 hours a day, every day of the year. These two people can handle most emergency situations(except for water main failures).

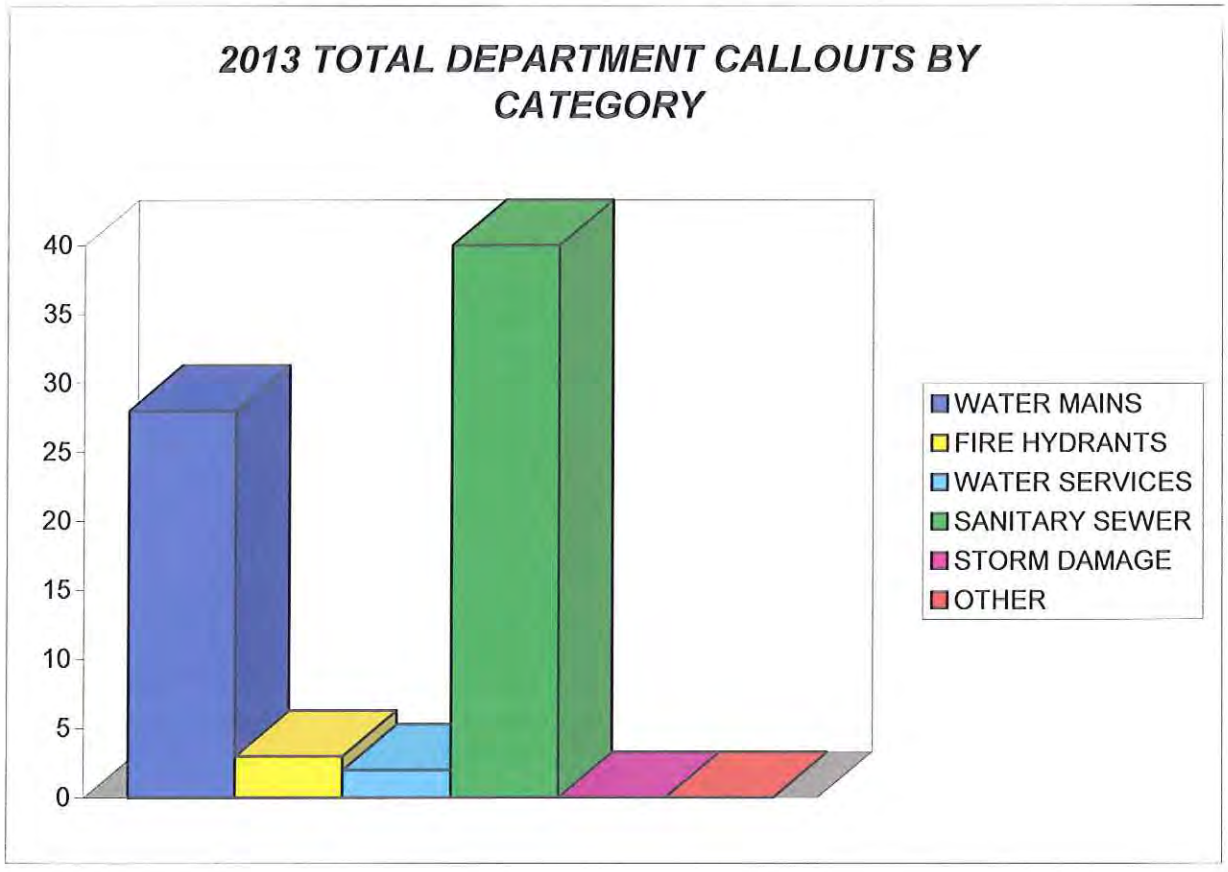
2013 EMERGENCY CALLOUTS:

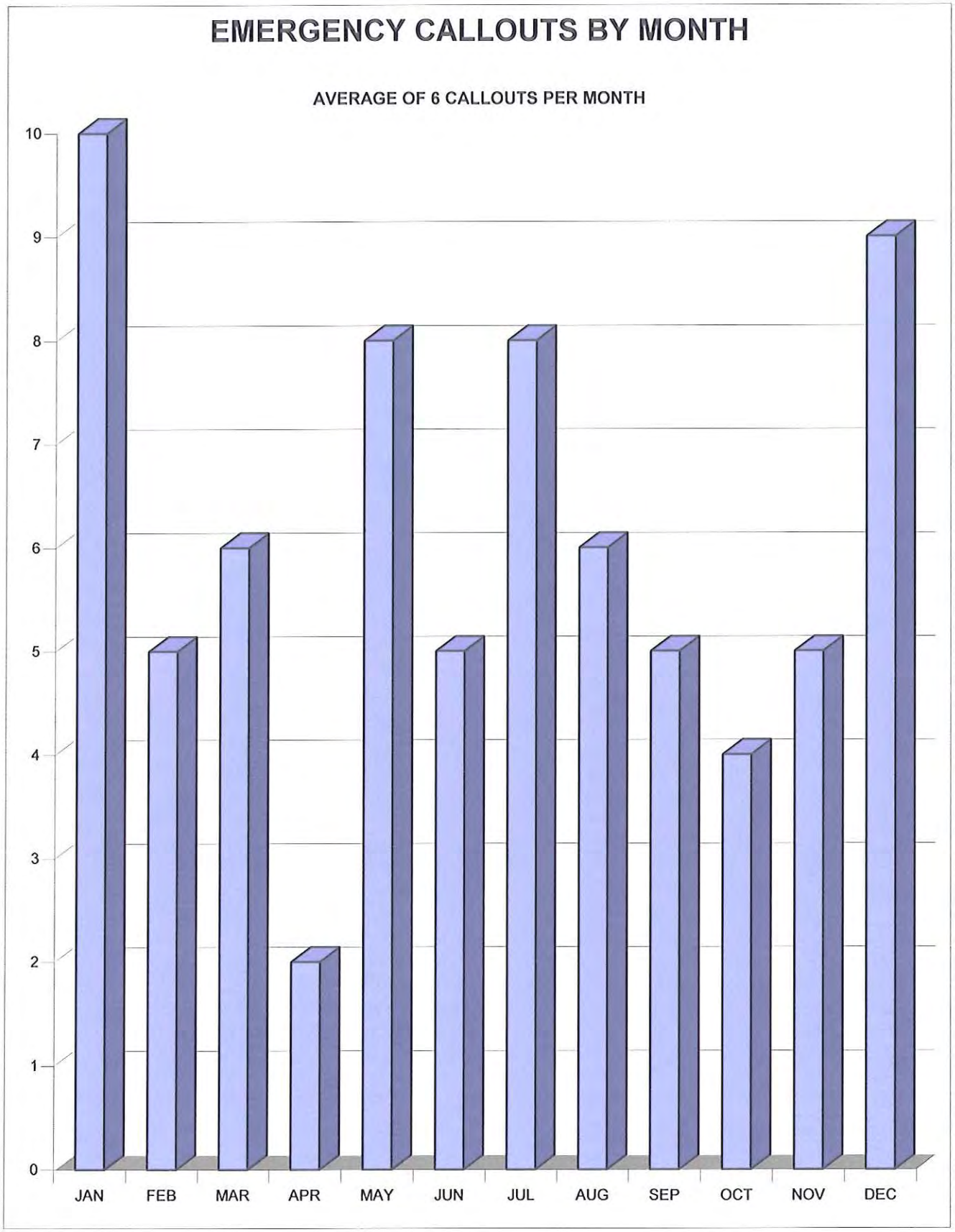
The following charts show by category and month the number of callouts for the year, along with the total number of callouts by category for the year. In **2013** we responded to a total of 73 callouts. (2012-56)(2011-69)

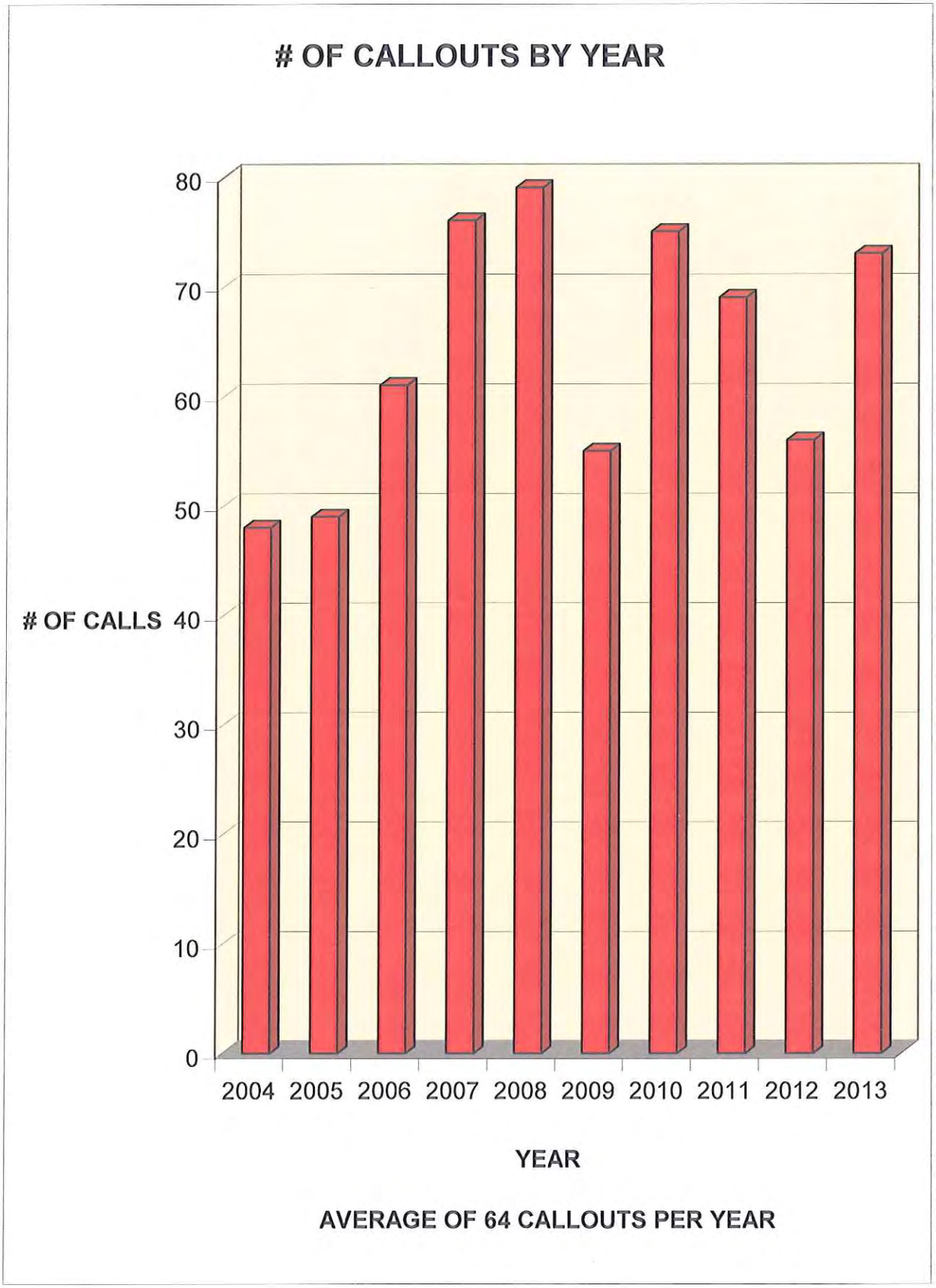
2013
DEPARTMENT CALLOUT TOTALS

DESCRIPTIONS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
WATER MAINS	5	2	2	1	2	1	2	2	3	3	4	1	28
FIRE HYDRANTS							1		1			1	3
WATER SERVICES	1											1	2
SANITARY SEWER	4	3	4	1	6	4	5	4	1	1	1	6	40
STORM DAMAGE													0
OTHER													0
TOTALS	***10***	***5***	***6***	***2***	***8***	***5***	***8***	***6***	***5***	***4***	***5***	***9***	***73***

(2012-56) (2011-69)




EMERGENCY CALLOUTS BY MONTH
AVERAGE OF 6 CALLOUTS PER MONTH
10
9
8
7
6
5
4
3
2
1
0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC


OF CALLOUTS BY YEAR
OF CALLS
80
70
60
50
40
30
20
10
0
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
YEAR
AVERAGE OF 64 CALLOUTS PER YEAR

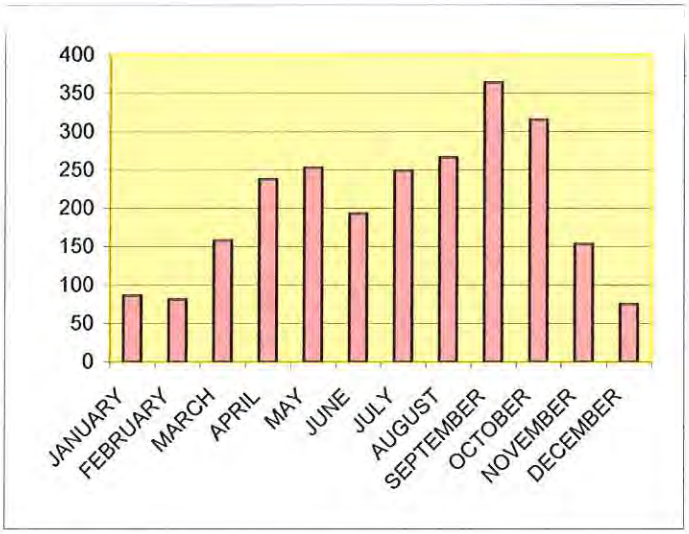
2013 OUPS MARKINGS

OUPS (Ohio Utility Protection Service) is an organization that was formed to notify all companies with underground utilities before any excavation work, so a company can mark the locations of its' utilities. For example, someone in Wadsworth is planning to build a new house, before the excavator comes to the site to dig the basement he would call 1-800-362-2764. This call would need to be made 48hrs in advance of the dig. After the call is made the City of Wadsworth is notified and an order for marking is sent out to all departments in the City that have underground utilities.

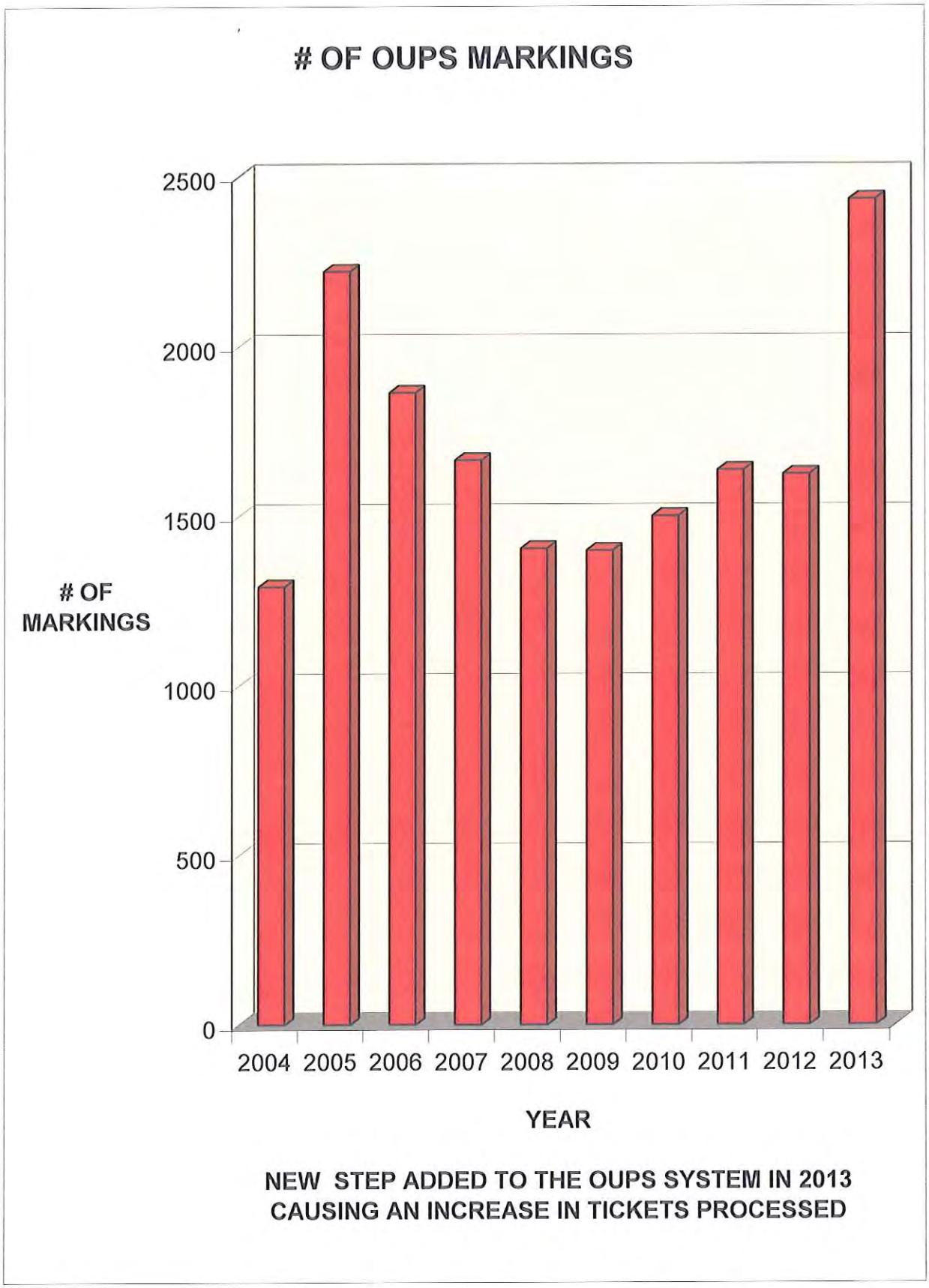
The Water department is responsible for marking all of the water and sanitary sewer mains which can become a very time consuming task when you consider the travel time to get to each site plus the time spent on locating and marking the utilities. This time period will increase dramatically if, for example, the employee sent to do the marking is in an area of a development he is not familiar with. Because accuracy is a must when marking these utilities, this employee may have to make a trip to city hall to pull a print for the area to be marked. If the employee marks the utility incorrectly and the contractor hits it, then the repair cost is shouldered by the city. Often when a repair has to be made there is a disruption to service not only at the building site but also to other customers in the immediate area. To avoid such a situation, it is necessary to take anywhere from 15 minutes to an hour or more to accurately complete one OUPS marking.

The following is a monthly breakdown of the number of completed OUPS markings for 2013.

JANUARY	86
FEBRUARY	81
MARCH	158
APRIL	238
MAY	253
JUNE	193
JULY	249
AUGUST	266
SEPTEMBER	364
OCTOBER	315
NOVEMBER	153
DECEMBER	75



TOTAL 2431 (2012-1623) (2011-1635)


OF OUPS MARKINGS
2500
2000
1500
1000
500
0
OF MARKINGS
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013
YEAR
NEW STEP ADDED TO THE OUPS SYSTEM IN 2013
CAUSING AN INCREASE IN TICKETS PROCESSED

WATER DISTRIBUTION AND WASTEWATER COLLECTION EQUIPMENT LIST

VEHICLES

5-114-87	AIR COMPRESSOR-DIESEL
5-115-95	4" EMERGENCY PUMP-GAS
5-116-96	HUDSON SHORING TRAILER
5-120-97	INTERNATIONAL 4900 DUMP TRUCK-DIESEL
5-102-00	1-TON CHEVY SERVICE TRUCK-DIESEL
5-103-00	FORD PICKUP-GAS
5-110-01	LB 110 BACKHOE-DIESEL
5-111-02	LB 110 BACKHOE-DIESEL
5-101-02	FORD PICKUP-GAS
5-107-04	INTERNATIONAL 7400 DUMP TRUCK-DIESEL
5-104-04	FORD PICKUP-GAS
5-131-06	SEWER EASEMENT MACHINE
5-130-08	VACTOR SEWER JET/VAC
5-112-08	C4500 CHEVY SERVICE TRUCK-GAS
5-109-12	F-450 1 TON DUMP TRUCK-GAS

(equipment continued)

EQUIPMENT

(1)	PRIOR 1977	GENERATOR-100V-GAS
(1)	" "	CORE DRILL-ELECTRIC
(1)	" "	PARTNER CUT-OFF SAW-2CYCLE-GAS
(1)	" "	TAPPING DRILL-ELECTRIC
(1)	" "	GRINDER-ELECTRIC
(1)	" "	½" DRILL PRESS-ELECTRIC
(1)	1977	6"-8" PIPE CUTTER
(1)	1980	WEED EATER-2CYCLE-GAS
(1)	1980	HOLE HOG
(1)	1981	10"-14" PIPE CUTTER
(1)	1984	MUELLER TAPPING MACHINE
(1)	1989	TAMPER-2CYCLE-GAS
(1)	1989	SHOP VACUUM-ELECTRIC
(1)	1990	SAWSALL-ELECTRIC
(1)	1992	HOLE HOG
(1)	1992	MAN LIFT (TRIPOD)
(1)	1992	3/8" ELECTRIC DRILL
(1)	1992	HUSQVARNA CHAINSAW
(1)	1992	ROOT CUTTER
(2)	1993	PIPE CLAMP

(equipment continued)

(1)	1993	INDUSTRIAL SCIEN. AIR MONITOR
(1)	1993	MANHOLE VENTILATOR
(1)	1993	STIHL CUTOFF SAW-GAS
(1)	1994	3" MUD PUMP
(1)	1994	PROTECTIVE SHORING (SHARED WITH ST.DEPT)
(1)	1995	PROTECTIVE SHORING
(1)	1995	½" HAMMER DRILL
(1)	1996	LEAK DETECTOR
(1)	1996	½" CORDLESS DRILL
(1)	1997	STREET CUTTING STIHL SAW
(1)	1997	CRAFTSMAN AIR COMPRESSOR
(1)	1997	HUSQVARNA CHAIN SAW
(1)	1997	HYDRAULIC TAMPER (SHARED WITH ST.DEPT)
(1)	1998	BATTERY CHARGER
(1)	1998	HYDRANT DIFFUSER
(1)	1998	GENERATOR
(2)	1998	MAC-51BX LOCATOR
(1)	1998	MAKITA CIRCULAR SAW
(1)	1999	GORMAN-RUPP PUMP-2"-GAS
(2)	2000	HYDRANT DIFFUSER
(1)	2000	MAC-51BX LOCATOR
(1)	2000	RIDGID SERVICE FREEZER

(equipment continued)

(1)	2000	TANAKA WEED EATER
(1)	2000	KENWOOD WALKIE TALKIE
(1)	2001	DEWALT DEMOLITION HAMMER
(1)	2001	HYDRAULIC IMPACTOR (KENT)
(2)	2002	KENWOOD WALKIE TALKIE
(1)	2002	BACKHOE FORKS
(1)	2002	90LB JACK HAMMER
(1)	2003	GORMAN-RUPP PUMP-2"-GAS
(1)	2003	SUBSURFACE LINE TRACER
(1)	2003	LD-12 LEAK LOCATOR
(1)	2003	TAMPER-2-CYCLE-GAS
(1)	2003	GATEWAY COMPUTER
(1)	2004	18" STREET SAW
(1)	2004	HONDA HYDRANT PUMP
(1)	2005	NISSAN 35 FORKLIFT (1/2 STREET DEPT.)
(1)	2005	LC-2500 LEAK CORRELATOR
(1)	2005	8X8 SHORING BOX
(1)	2005	CORDLESS SAWZALL
(1)	2005	STIHL TS 400 CUTOFF SAW
(8)	2005	4X8 GROUND MATS
(1)	2005	MAGNATRAK 102 LOCATOR
(3)	2005	PITOT GAUGE SET

(equipment continued)

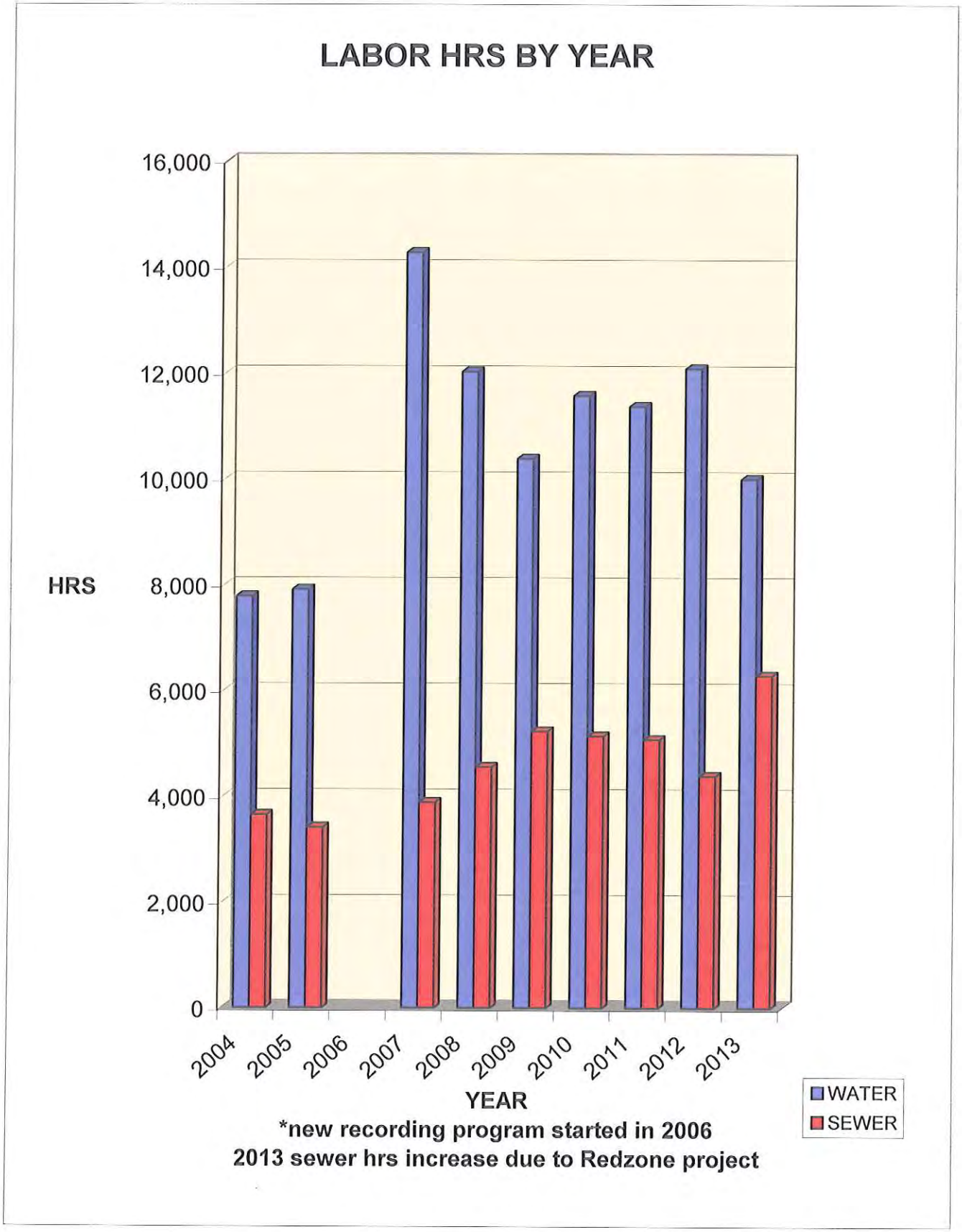
(1)	2006	RIDGE 1450 TEST PUMP
(1)	2006	CONFINED SPACE WINCH
(1)	2006	4"-6" RIDGE CAST CUTTER
(1)	2006	SERVICE LINE PULLER
(1)	2006	11/4'-2" TAPPING MACHINE
(1)	2007	41/2" HOSE BRIDGE SYSTEM
(1)	2007	STIHL TS 700 CUTOFF SAW/CART
(1)	2007	200 GALLON PLASTIC WATER TANK
(1)	2007	HOSE BRIDGE
(1)	2008	3" HOSE CLAMP
(1)	2008	3" HONDA PUMP
(1)	2008	55LB ROCK DRILL
(1)	2009	MUELLER B-101 TAPPING MACHINE
(1)	2009	MAGNA TRACK 202 LOCATOR
(1)	2009	LPD ALU. HYDRANT DIFFUSER
(1)	2009	ARIES SEWER CAMERA
(1)	2010	ICS DUCTILE CHAIN SAW
(2)	2010	TYPE III ROAD CLOSED BARRICADE
(2)	2011	2" HONDA PUMP-GAS
(1)	2011	STIHL WEED EATER
(4)	2011	DIGITAL CAMERA
(1)	2012	LPD ALU. HYDRANT DIFFUSER
(1)	2013	16' EXTENSION LADDER

Water Dept. Hours and Percentage by Job Number

1/1/13 to 12/31/13

Job Number	*Hrs*	*%*
1 Engineering Dept Total:	3.50	0.02%
15 Utility Dept Total:	1.50	0.01%
21 Electric Dept Total:	146.50	0.90%
24 Sanitary Sewer Dept Total:	2,541.57	15.62%
26 Storm Sewer Dept Total:	8.50	0.05%
27 Street Dept Total:	42.50	0.26%
28 Wastewater Treatment Dept. Total:	13.00	0.08%
29 Water Dept Total:	8,926.65	54.84%
95 Water Dept. Buildings Total:	21.50	0.13%
126 Aerial Water Tank-Akron Road Total:	4.50	0.03%
127 Aerial Water Tank-Broad St. Total:	1.00	0.01%
128 Aerial Water Tank-High St. Total:	37.50	0.23%
129 Aerial Water Tank-Overlook Ave. Total:	15.50	0.10%
147 Raw Water Pump House #16 Total:	1.00	0.01%
156 Pumping Station, Brookwood Ave. Total:	206.87	1.27%
158 Pumping Station, Weber Dr. Total:	15.00	0.09%
159 Pumping Station, West Bergey St. Total:	3.50	0.02%
160 Pumping Station, Williams Reserve Total:	281.95	1.73%
161 Pumping Station, Great Oaks Trail Total:	227.50	1.40%
162 Pumping Station, Weatherstone Total:	249.02	1.53%
254 Annual Hydrant Flushing Total:	517.43	3.18%
270 Street Program Total:	20.00	0.12%
2002560 Fieldcrest Subdivision (N. Side of Johnson Rd) Total:	0.50	0.00%
2005600 Rogues Hollow Waterline Total:	3.50	0.02%
2006320 High Street Ph. 2 Road Widening Total:	3.50	0.02%
2006500 Briarthorn Phase IV (Reserves of) Total:	25.50	0.16%
2007416 Brookwood Lift Station Total:	186.48	1.15%
2007460 Storm Sewer Investigation Total:	2.50	0.02%
2008730 Wadsworth High School Rebuild Total:	25.50	0.16%
2008760 Restored Church of God Total:	13.00	0.08%
2009442 Weber Drive Waterline Total:	31.00	0.19%
2010730 Remington Products Office Addition Total:	1.50	0.01%
2010731 Valleyview School Rebuild Total:	3.50	0.02%
2010732 Overlook School Rebuild Total:	4.00	0.02%
2010733 Isham School Rebuild Total:	5.00	0.03%
2011404 Community Pool Total:	24.00	0.15%
2011907 Corwin Apartments (Reimer Rd) Total:	0.50	0.00%

Job Number	Hrs	%
2012445 SR 94 Tower Altitude Valve Total:	230.92	1.42%
2012702 WCS-Art Wright Stadium Upgrades Total:	35.50	0.22%
2012792 Caplea Architects-323 High--Medical Total:	5.50	0.03%
2013270 2013 Street Improvement Program Total:	87.17	0.54%
2013456 Sewer System GIS Total:	2,225.30	13.67%
2013583 Tiberon Trace Phase III Total:	60.00	0.37%
2013762 Restored Church of God-Media Center Total:	16.00	0.10%
Grand Total	16,276.35	100.00%


LABOR HRS BY YEAR
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
HRS
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
YEAR
WATER
SEWER
*new recording program started in 2006
2013 sewer hrs increase due to Redzone project