

2017 STREET DIVISION ANNUAL REPORT



City of Lima

Street Division

Deputy Director II
Street Supervisor
Street Foreman

Warner Roach
John Beebe
Dwight Cole

Traffic Signal Supervisor
Traffic Signal Technician

Donald Long
Andrew Hubbard

Street Sign/Paint Supervisor
Street Sign/Paint Technician

Steve Hubbell
Darren Barnett

Garage Supervisor
Garage Mechanic
Parts Technician

Theodore Kaser, Jr.
John Sanford
Kevin Gerken

Construction and Maintenance II

Eric Beebe
Steve Campbell
Stevon Clemons
Michael Fox
Tim Hicks
Jeffrey McGee
Kenneth Miller, Sr.
Glen Sawmiller
Donald Staup
Jeffrey Wolfe

Construction and Maintenance I

Brandon Barnett
Shawn Benjamin
Wayne Bradley
Kristofer Brewer
David Condon
Gregorio Gonzales, Jr.
William Hedges
Tony Joiner
James Lee
Christopher Miller
Kenneth Miller, Jr.
LeQuory Seccession
Christopher Staup
Christopher Warthem

Account Clerk I

Anna Mustaine

In addition to Man Power hours devoted to each street division task, there are also materials that are imperative to the efficient, thorough end result, as well as the necessitation for removal of debris.

As every task varies in its materials and/or debris removal, a breakdown is provided below.

- ❖ Catch Basin Cleaning
 - 643.25 cubic yards of sludge and debris from catch basins.
- ❖ Catch Basin/Storm Line Repair
 - 63 bricks, 86 bags of cement, 25.5 cubic yards of Class “C” Concrete, 201.5 feet of pipe, 40 castings, grates and risers, 37.42 tons of stone, 10 feet of rebar, 2 bags of Calcium, 17 cubic yards of CDF and 13.3 tons of sand were used in 2017 for repairs to catch basins and storm lines.
- ❖ Tree Removal
 - 2047.5 cubic yards of trees, branches and limbs were removed from trees located within the curb lawns.
- ❖ Sweeper Loads
 - 2151.5 cubic yards of debris were swept away from our City streets.
- ❖ Berm Repair
 - 95.4 tons of stone were necessary to complete berm repair throughout the City.
- ❖ Crack Sealant
 - 63.5 gallons of crack sealer were utilized on City streets to seal cracks and edges of patched areas.
- ❖ Alley Repair
 - During 2017, 465.63 tons of stone were required to complete alley repair while 1020.5 cubic yards of debris and brush were hauled away from alleys.
- ❖ Concrete Repair (includes concrete repairs completed for Utilities)
 - 70.75 yards of “C” Concrete, 4.55 tons of stone, 418 feet of lumber and 2 gallons of concrete sealer were used for all concrete repairs
- ❖ Vegetation control
 - During 2017, 537 gallons of herbicide were used to control vegetation growth downtown and in right of ways.
- ❖ Sod Repair
 - 9 tons of top soil, 1 bale of straw and 32 pounds of grass seed were used to repair sod damage.

2017 C&M I and II Hours

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
Task													
Alley Maintenance	374.5	285	9		315.17	454	98	48.5			9	8	1601.2
Assist Electricians		15	13	52		6	3	8	16	35.5	20		168.5
Assist Signs										9	8		17.0
Assist Engineers												289	289.0
Assist Parks				34		48	20	8		5			115.0
Assist Utilites													0.0
Assist LFD/LPD					13								13.0
Barricades/Signs			8		35	4		4					51.0
Berm Repair	57	131	70	8	288	54	101	34	22	64	12	60	901.0
Bollards								9					9.0
Bridge Repair									16				16.0
Catch Basin Cleaning	748.75	344	417.75	280	391	262	419	372	167	270	74	128	3873.5
Catch Basin Rebuild			24										24.0
Catch Basin Repair	189.5	251	340	276	429.5	389	337.25	853.5	484	325	417	205	4496.8
Central Services Building	62	62	18	111	17	2	24	32	14	10	86	54	492.0
Concrete Repair		68	16	4	54	10	16	12		16			196.0
Crack Sealing								32	135	52			219.0
Curb/Sidewalk Repair													0.0
Ditch Clean Out													0.0
Drug Testing									1		2		3.0
Equipment	40	37.5	73	35	114	15	25	45	14	37	116	195	746.5
FSWD concrete Repair				211	13	208	177		189	586.5		22	1406.5
Full Depth Repair													0.0
Guardrail Repair	44	25	15										84.0
Haul out from CSB	40		6			14	29.5	3.5	18	2	8	14	135.0
Miscellaneous		3	15.5	11	23.5		6	40		12	21		132.0
Miscellaneous Meetings	9	14.5		10	10	9.5	25.5	122		1	10.5	1.25	213.3
Riverwalk/Bike Path							30	12					42.0
Remnant Leaf Removal												36	36.0
Sod Repair		16		22.5		4	4						46.5
Stockpile Stone				0.75	9.25	8	4						22.0
Stockpile Top Soil/Sand			4	0.75			2		6	2			14.8
Storm Damage	20	12	338.75	6	9	12	12			19.5	176	2	607.3
Street Grinding									12	94.5			106.5
Street Patching	372	479.75	659.5	393	322.5	354.5	166	222.5	298.25	380.25	209.5	297.5	4155.3
Street Sweeping	260.5	300.75	280.75	520	587	449	349.5	449.5	380	434.5	261	64	4336.5
Street Surveying													0.0
Tree Trimming/Removal	62	249	465	307	155	81	87	153	359	322	171	40	2451.0
Trouble Truck	28	28	63.5	19	34.5	61	40	48.5	35	24	17.5	12	411.0
Union Duties	8		8									1	17.0
Utility Patching				56	189	341	594	570.25	313.5	209	20		2292.8
	2315.25	2321.5	2844.75	2357	3009.42	2786	2569.75	3079.25	2479.75	2910.75	1638.5	1429	29740.67

TROUBLE TRUCK TASKS

There are tasks in the City of Lima that are completed daily by a group of individuals who work the “trouble truck.” Working three shifts a day, seven days per week, these men handle calls from residents and the Lima Police Department regarding dead animals, debris in the roadway, as well as calls “after-hours” for every situation that could equate trouble if left unchecked.

Below is a table listing the calls responded to by the Trouble Truck, arranged by month. Misc. includes “checking out” calls from residents reporting alleged trouble, picking up necessary items for day-to-day operations of the Street division, City Wide Pride Clean up days, as well as any other call which was responded to that was rare or unique in occurrence or nature.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
Glass/Debris in Street	33	45	53	33	33	31	38	21	36	50	44	45	462
Street Signs	6	4	8	1	2	3	7	9	3	0	2	7	52
Signs in Right of Way	60	24	32	53	33	87	133	115	68	57	18	2	682
Traffic Signals	0	5	9	3	8	2	8	1	5	1	0	3	45
Limbs	5	21	8	1	14	11	20	14	13	11	23	2	143
Check Bridges for Ice	16	12	8	2	0	0	0	0	0	0	2	16	56
Barricade Setup/Removal	8	16	32	53	60	35	81	82	79	57	38	9	550
Dead Animals	34	40	24	47	49	44	57	49	46	55	43	23	511
Miscellaneous Tasks	28	15	21	18	22	24	18	17	7	28	7	17	222
Street Sweeping	2	0	0	2	1	4	2	5	3	6	1	0	26
Catch Basins	22	6	5	9	14	1	5	7	0	4	45	1	119
Tires	0	5	0	1	12	5	1	1	7	4	2	4	42
Temporary Sign Placement	8	30	5	4	21	6	53	3	0	0	34	15	179
Check/Report Out Street Lights	16	15	26	10	20	12	24	41	21	28	48	59	320
H2O Leak	0	2	0	0	0	0	1	1	0	0	1	0	5
Oil Spill	0	0	3	2	0	1	3	1	1	1	1	0	13
Basketball Hoops	1	0	0	0	0	0	7	0	4	0	0	0	12



SNOW REMOVAL 2017



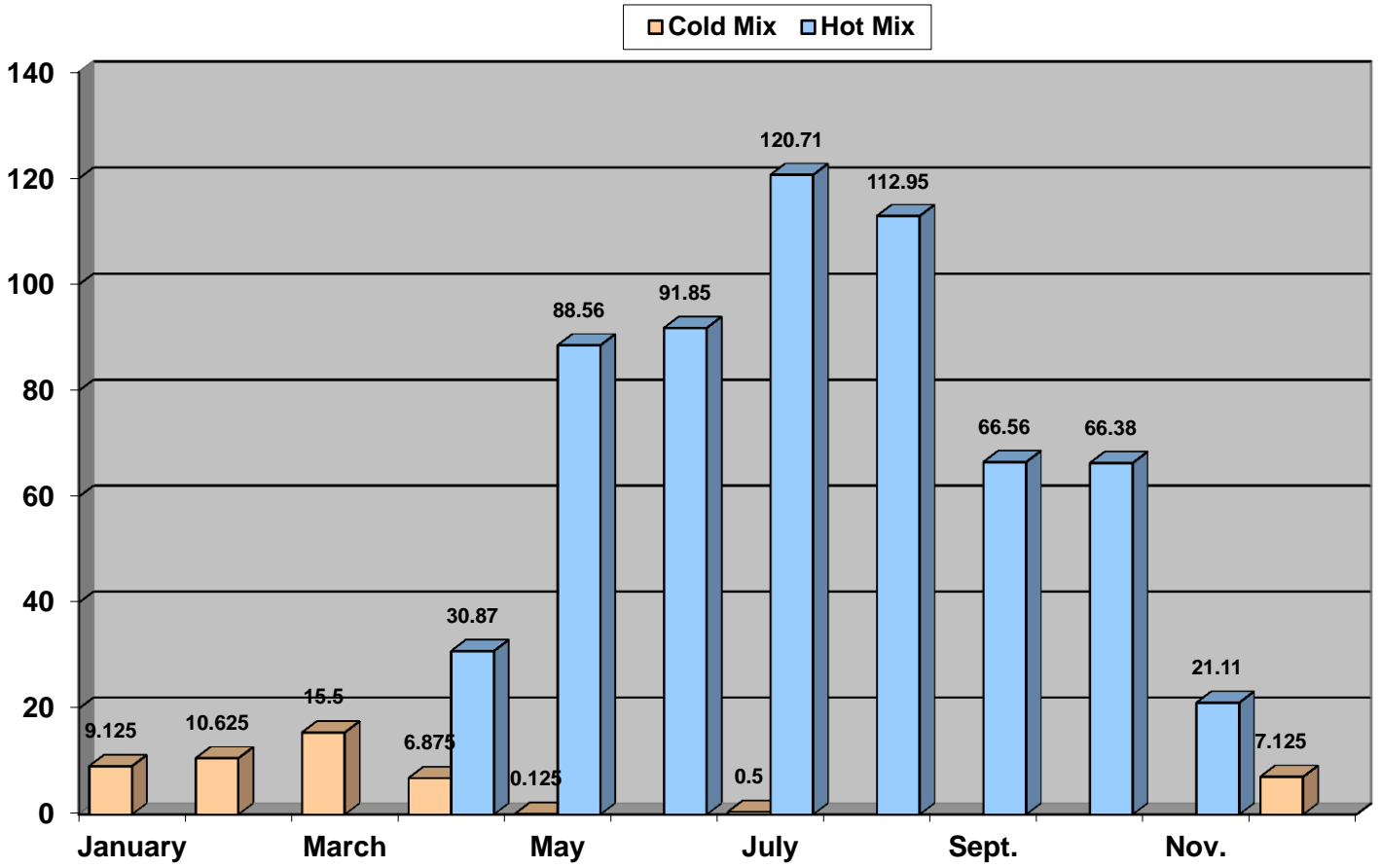
During the 2017 season the Street Division encountered 10 recordable winter storms with recorded snow accumulation of 12.25".

Storm #	Date	Inches	Tons of Salt	Labor Cost	Overtime Cost	Material/Equip Cost	Total Cost
#1-2017	01/04/17	1.0	158	5,743.77	2596.27	14,507.54	22,847.58
#2-2017	01/10/17	0.0*	48	3,382.46	0.00	4,603.35	7,985.81
#3-2017	02/08/17	1.0	107	600.00	2,999.75	9,016.95	12,616.70
#4-2017	03/13/17	1.75	66.5	3,112.32	763.24	6,111.76	9,987.32
#5-2017	03/17/17	0.5	32	1,682.14	0.00	2,937.85	4,619.99
#6-2017	12/09/17	0.5	73	600.00	1870.06	6216.45	8686.51
#7-2017	12/14/17	1.5	84	5715.04	196.91	7765.39	13677.34
#8-2017	12/23/17	1.5	178.5	3233.34	7425.33	15758.71	26417.38
#9-2017	12/27/17	1.5	52	4062.64	0.0	5065.58	9128.22
#10-2017	12/29/17	3.0	134.5	777.40	3454.24	11800.65	16032.29
TOTALS		12.25	933.5	28,909.11	19,305.8	83,784.23	131,999.140

*freezing rain, sleet and/or drizzle

2017 Temporary Maintenance Hours

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CSB Maintenance	12	7	11.75	3	2.5	6	17.5	1.5	0.5	3			64.75
Downtown	185	215.5	182.5	150	147	120.5	99.5	75.5	60.5	75	152	111	1574
Litter Pickup	50	34	66	38	35.5	48	40.5	14	29.25	12		28	395.25
Maintain Right of Ways				73	56	39.25	16	47	27	12.5	8	4	282.75
Equipment Maint			28						0.75				28.75
Salting Cross Walks/ Snow Removal												34.5	34.5
MISC		0.5	1	1		8	1	6.5				4	22
Spray Weeds				15	52	46.25	50.25	17	8.5				189
Catch Basins	39	4	14	20	22.5	14	8			4		4	129.5



AMOUNTS (IN TONS) OF ASPHALT USED IN STREET AND UTILITY PATCHING.

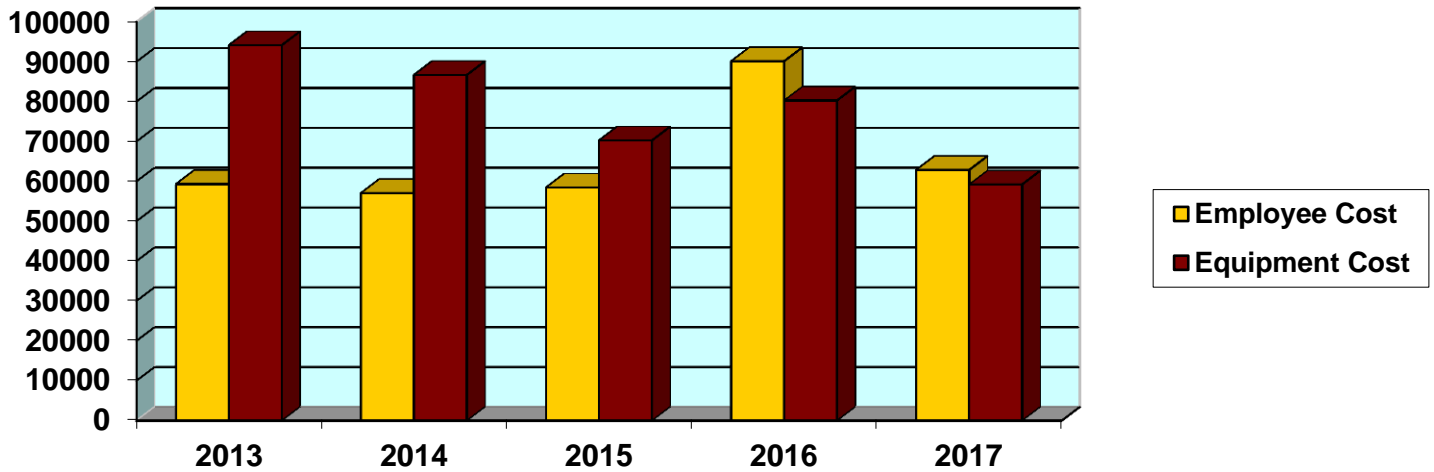
598.99 TONS TOTAL **HOT MIX**

49.875 TONS TOTAL **COLD MIX**



Leaf Pickup Comparison

YEAR	START DATE	END DATE	REGULAR HOURS	OVERTIME HOURS	TOTAL LOADS	TOTAL CUBIC YDS.	EQUIP. HOURS	TOTAL COST
2013	Nov. 11	Dec. 5	2598.5	0	338	3997.5	1793.5	154,429.23
2014	Nov. 10	Dec. 11	2144.25	0	414	3860.50	1899.75	144,591.91
2015	Nov. 9	Dec. 2	1994	0	328	3937	1462.75	131,022.19
2016	Nov. 14	Dec. 9	3136.25	0	361	3855.5	2164.75	174,415.73
2017	Nov. 13	Dec 8	2402.75	0	208	2812.50	1559.50	140,728.88



2017 Year End Report

Traffic Signal Department

During 2017, we had nine reported accidents with a total cost of \$21,242. We also had unreported or hit skip accidents of approximately \$19,000.

Included in the 2017 list of accomplishments, we replaced all of the remaining street lighting with LED bulbs, which included 230 lights on Market Street and Bellefontaine Avenue. We also replaced the signal heads, poles, wiring, and controller at the intersection of Fourth Street and Reese Avenue which eliminated the City's last mechanical controller.

Traffic Signal Supervisor – Dong Long

Traffic Signal Technician – Andy Hubbard



Andy Hubbard makes necessary repairs to a street light

2017 Year End Report

Traffic Signs & Pavement Marking

This year the Traffic Sign Department responded to 165 work orders and complaints for maintaining approximately 10,000 traffic and street signs throughout the City.

For the Star- Spangled Spectacular, we erected 1,000 feet of safety fence, established parking areas, and installed advertising banners – all of which had to be removed after the holiday.

Our duties also included:

- Assisting other departments with erecting signs, electrical work, and mechanical work
- Painting approximately 50 miles of centerline stripes and edge lines on the roadways
- Replace all regulatory signs with more durable and reflective high intensity sign facings as mandated by the FHWA
- Replace pavement markings at the intersections including crosswalks, stop bars, and turn lane arrows using preformed thermoplastic
- Continuing a street name sign replacement program with all signs made within our shop, making over 200 signs
- Installed bike racks in the square at the Hall of Justice and at Met Housing

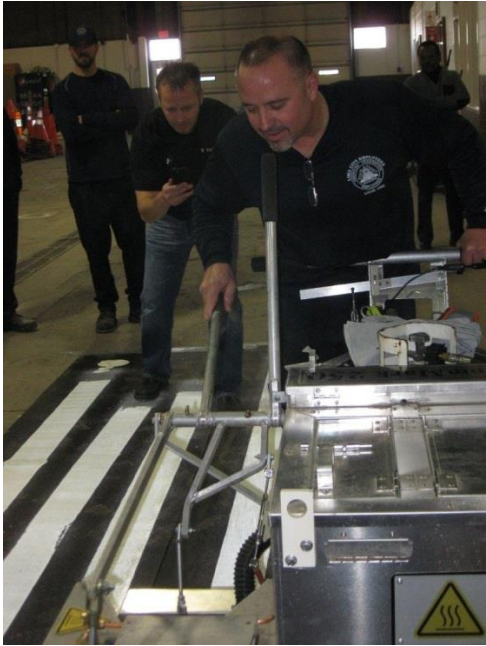
Additionally, we purchased a new piece equipment that will allow us to inlay thermoplastic (grinder) and install bulk thermoplastic more efficiently (thermoliner and pre-melter).

Traffic Signs	1650 hours
Street Signs	738 hours
Street Painting	239 hours
Pavement Marking	251 hours
Maintenance	176 hours
Parks	111 hours
Assisting Other departments	56 hours

Street Sign/Paint Supervisor – Steve Hubbell
 Street Sign/Paint Technician – Darren Barnett



Darren Barnett using the hand propelled grinder to remove traffic control



Street Division employees receiving training on the Thermo Mark 250

In 2017 the Street Division added a New Thermo Mark 250 hand propelled thermoplastic pavement marking applicator outfitted with application dies, beader and a model 650 fastmelt heating kettle. The Sign Crew consists of a two-man crew. In recent years, contractors have applied pavement marking at intersections, crosswalks, schools, handicap areas as well as on streets using thermoplastic technology. Prior to this recent purchase, the crew had to paint the aforementioned applications using an airless spray system and small applications of thermoplastic forms that had to be heated with a hand torch and hand applied to the pavement surface. The airless paint applications utilized by the City only last four to six months in standard traffic situations, even less in high traffic areas. The Thermomark applicator applies a heated liquid thermoplastic that knits into the pavement for durability and high quality reflective properties which have a life span of five to ten years.

The applicator allows for lowered labor time as well as lowered potential employee injury/accident ratio while keeping exposure time to the traveling public at a greatly reduced rate. In turn, this allows for a two man crew to maintain a larger geographic area of the City. Applying pavement markings using the applicator also saves the City money. For instance, a 12 inch wide line, 320 feet long costs the City \$36.00 in materials only. The same line applied with the Thermomark applicator costs the City \$3.15, again in materials only.

Below are photographs of the hand propelled applicator as well as the kettle and beader:

