



JCPSTM JEFFERSON COUNTY
PUBLIC SCHOOLS

**SAFETY & ENVIRONMENTAL
SERVICES**

MISSION

Our mission is to provide a safe and healthy environment for all JCPS students and staff.



SAFETY/ENVIRONMENTAL STAFF

- **SAFETY**: One (1) Safety Director
 - Two (2) Safety Inspectors
 - Fire Extinguishers: One (1) Fire Extinguisher Inspector
 - First Aid/CPR: One (1) First Aid/CPR trainer (Vacant position)
 - One (1) Contractor Badging clerk
- **ENVIRONMENTAL**: One (1) Environmental Coordinator
 - Pest Control: Four (4) Utility Workers
 - Energy Conservation: One (1) Energy Auditor
 - Asbestos: Two (2) Asbestos Inspectors
- **ADMINISTRATIVE**: Two (2) Administrative staff

WHAT DO WE DO?

SAFETY

- OSHA 300 Injury/Illness Record Keeping
- Fire Marshall Inspections
- Pressure Vessel Certifications
- District Emergency Response (adverse weather, power outages, fires, chemical release, etc.)
- Student/Employee Accident Investigations
- Traffic Studies
- District CPR/First Aid/AED Training
- OSHA Compliance/Consultation
- Safety Training
- Safety/Emergency Procedures planning
- Facility Compliance Manual planning
- Contractor Badging/Background Checks
- Fire Extinguisher Inspections
- Site visit inspections

ENVIRONMENTAL

- District Drug/Alcohol Testing
- Pest Control
- Asbestos Investigation/Abatement
- Lead Water Testing
- Waste/Recycling/Composting
- Indoor Air Quality Investigations
- Hazardous Waste Pick-up/Disposal
- Tier II Reporting – Annual UST Testing
- EPA Compliance/Consultation
- EPA Inspections
- Health Department Compliance
- Environmental Training
- Utility Consumption Monitoring/Tracking

Fred Bright, MS, CSP, OHST, CHST

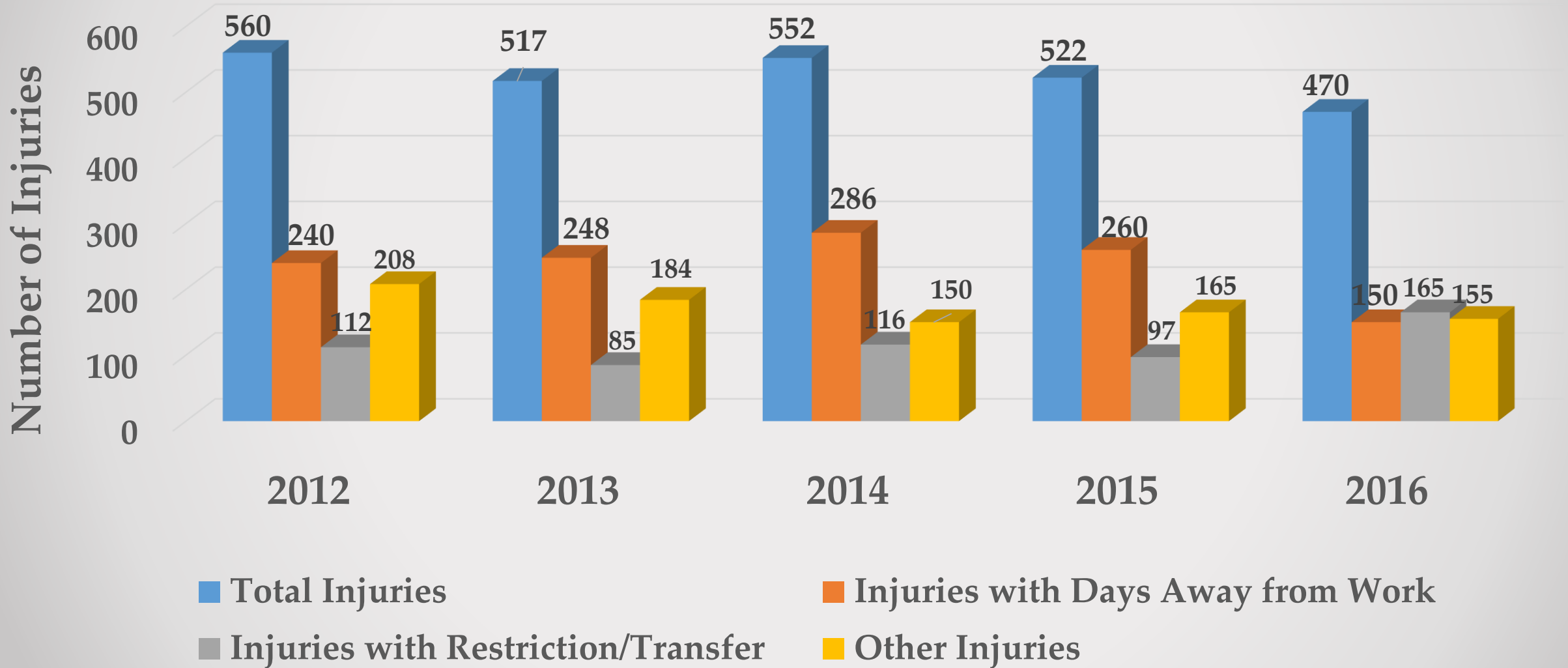
Safety Inspector

Safety & Environmental Services

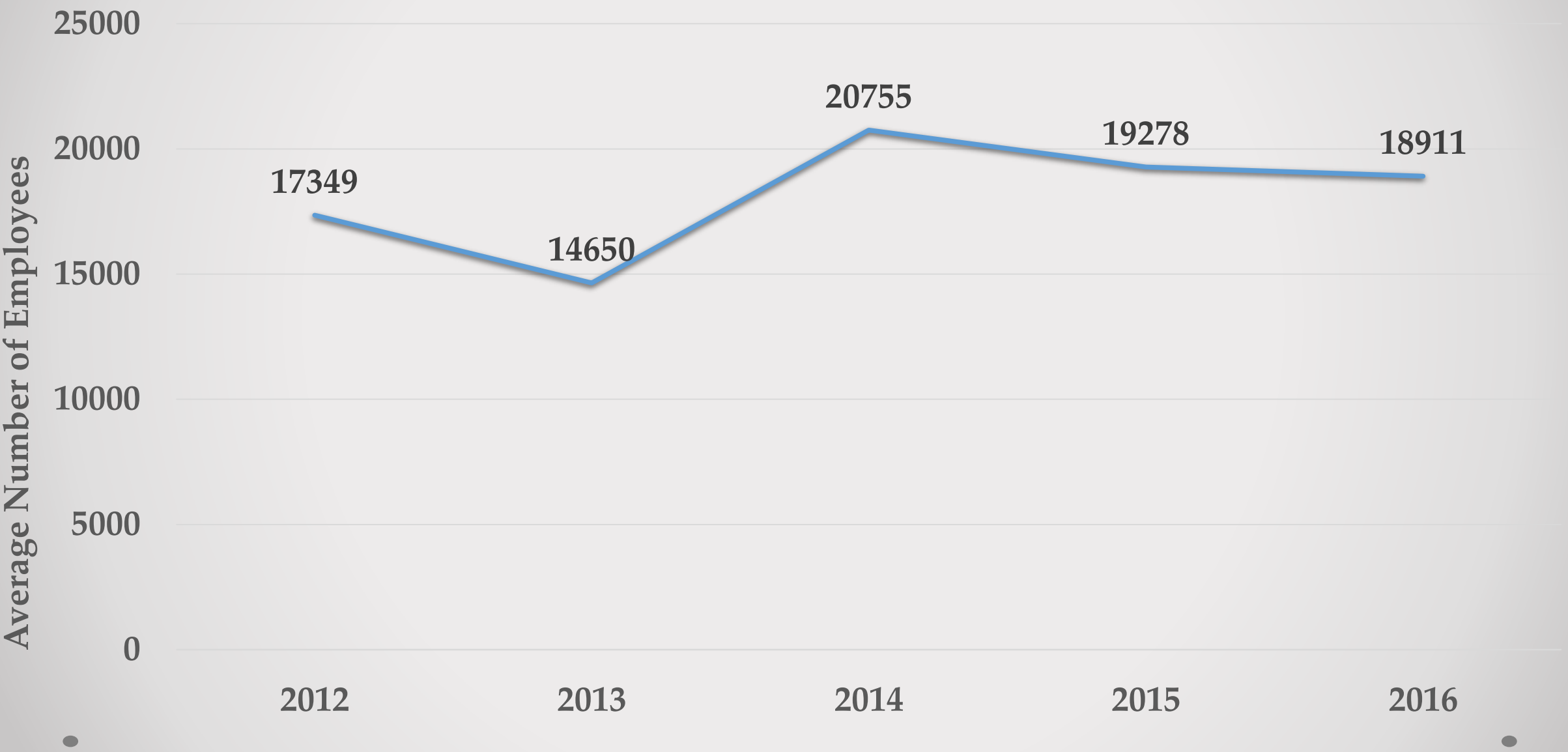
frederick.bright@jefferson.kyschools.us

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OSHA RECORDABLE INJURIES



AVERAGE NUMBER OF EMPLOYEES



OSHA Recordable Injury & Illness Incident Rate (IR)

This is the most well-known rate, and the one that provides the most common comparison. It shows you how many employees per 100 employees have been injured or suffered an illness that had to be recorded under OSHA rules within the specified time period.

$$\text{IR} = \frac{\text{Number of OSHA Recordable Cases X 200,000}}{\text{Number of Employee labor hours worked}}$$

Average rate across the U.S. = 3.3 (2015), Kentucky = 3.5 (2015)
Educational Services = 3.0 (2015)

The DART rate

Days Away, Restriction or Transfer. It looks at the amount of time an injured employee is away from his or her regular job.

$$\text{DART Rate} = \frac{\text{Total Number of DART incidents x 200,000}}{\text{Number of Employee Labor Hours Worked}}$$

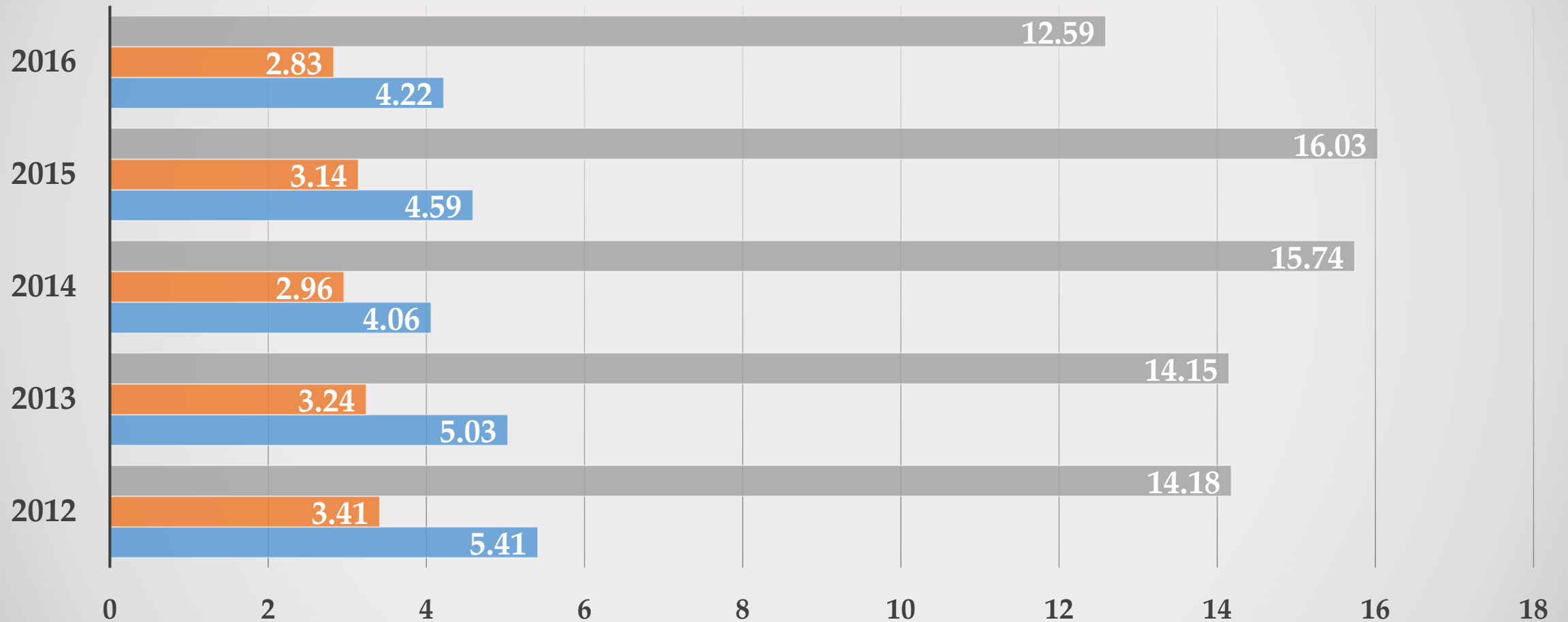
Severity Rate (SR)

The severity rate is a calculation that gives a company an average of the number of lost days per recordable incident.

$$\text{SR} = \frac{\text{Total number lost workdays}}{\text{Total number of recordable incidents}}$$

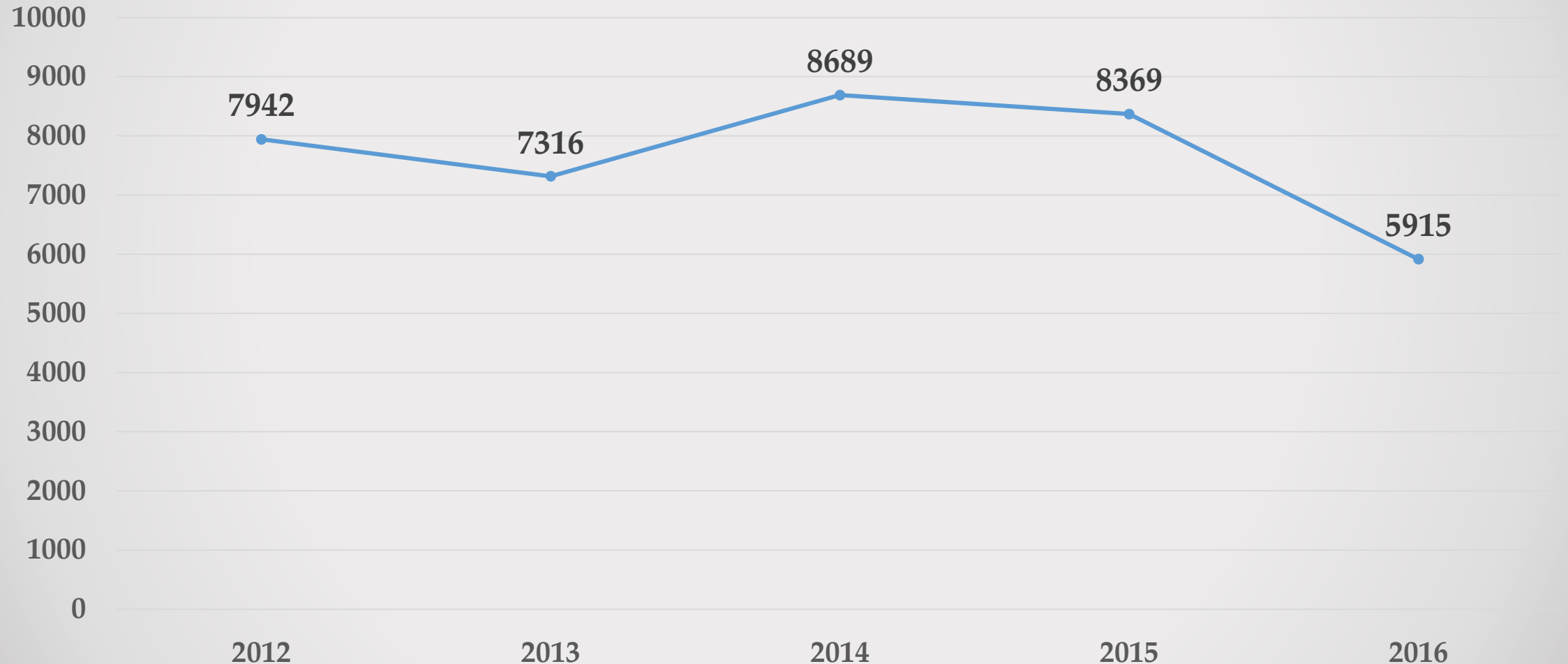
INJURY/ILLNESS RATES

OSHA INJURY RATES



● ■ Severity Rate (SR) ■ Days Away & Restriction/Transfer (DART) Rate ■ Injury & Illness Incident Rate (IR) ●

OSHA Recordable Injuries/Illnesses Days Away From Work



JCPS EMPLOYEE INJURIES

1) Injuries attributed to students

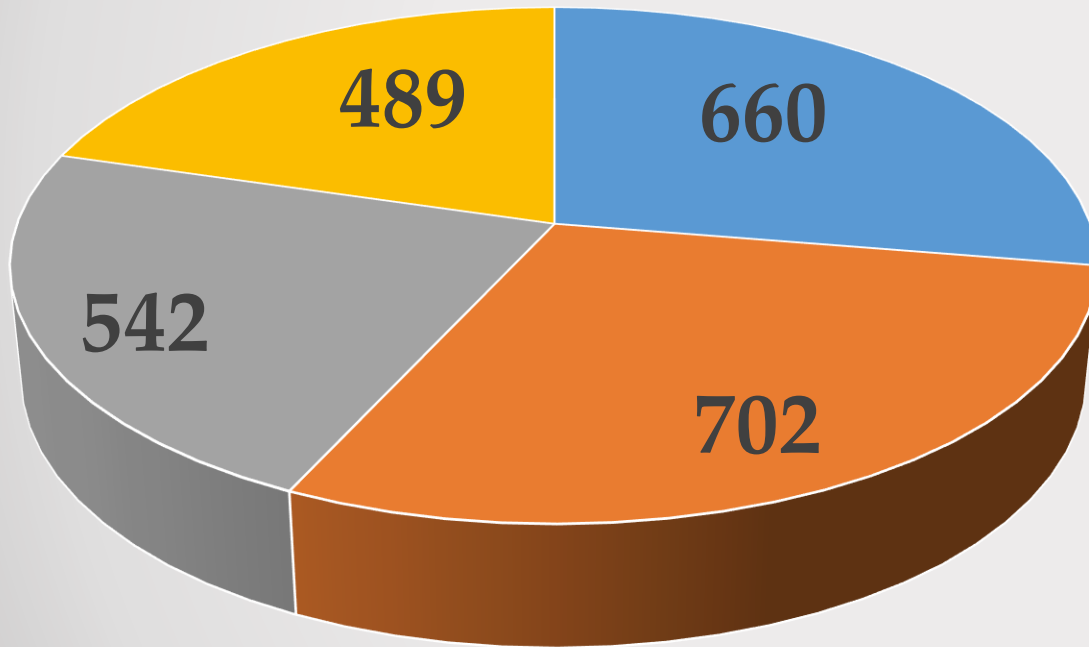
- Bites
- Scratches
- Punches
- Kicks
- Head butting
- Restraining students
- Breaking up fights
- Throwing objects

2) Slips/Trips/Falls

3) Ergonomic (bending, twisting, lifting) and Repetitive Motion

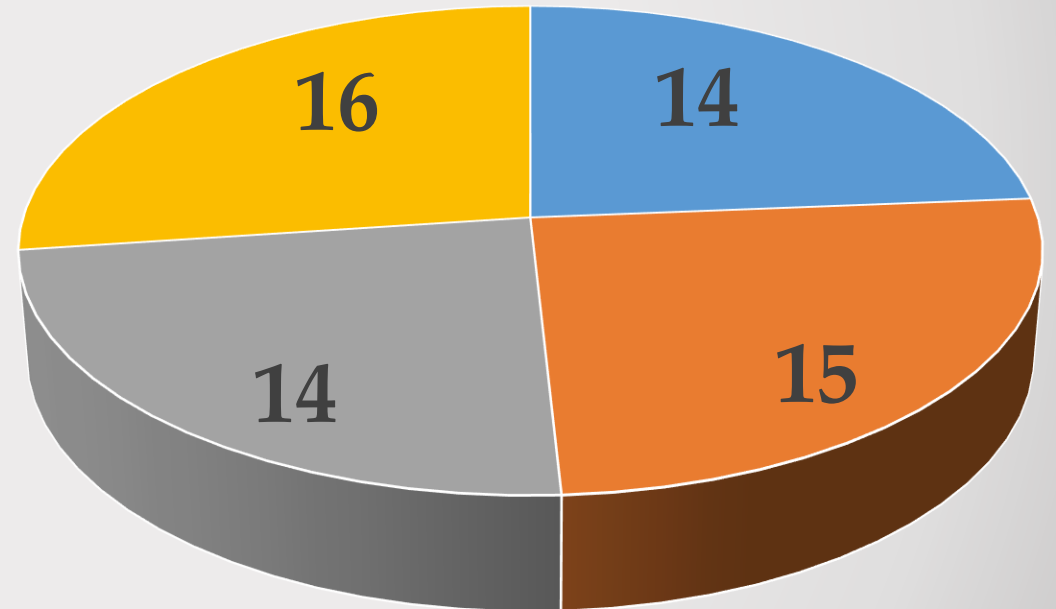
NEW EMPLOYEE ORIENTATION (NEO) SAFETY TRAINING

Employees Trained



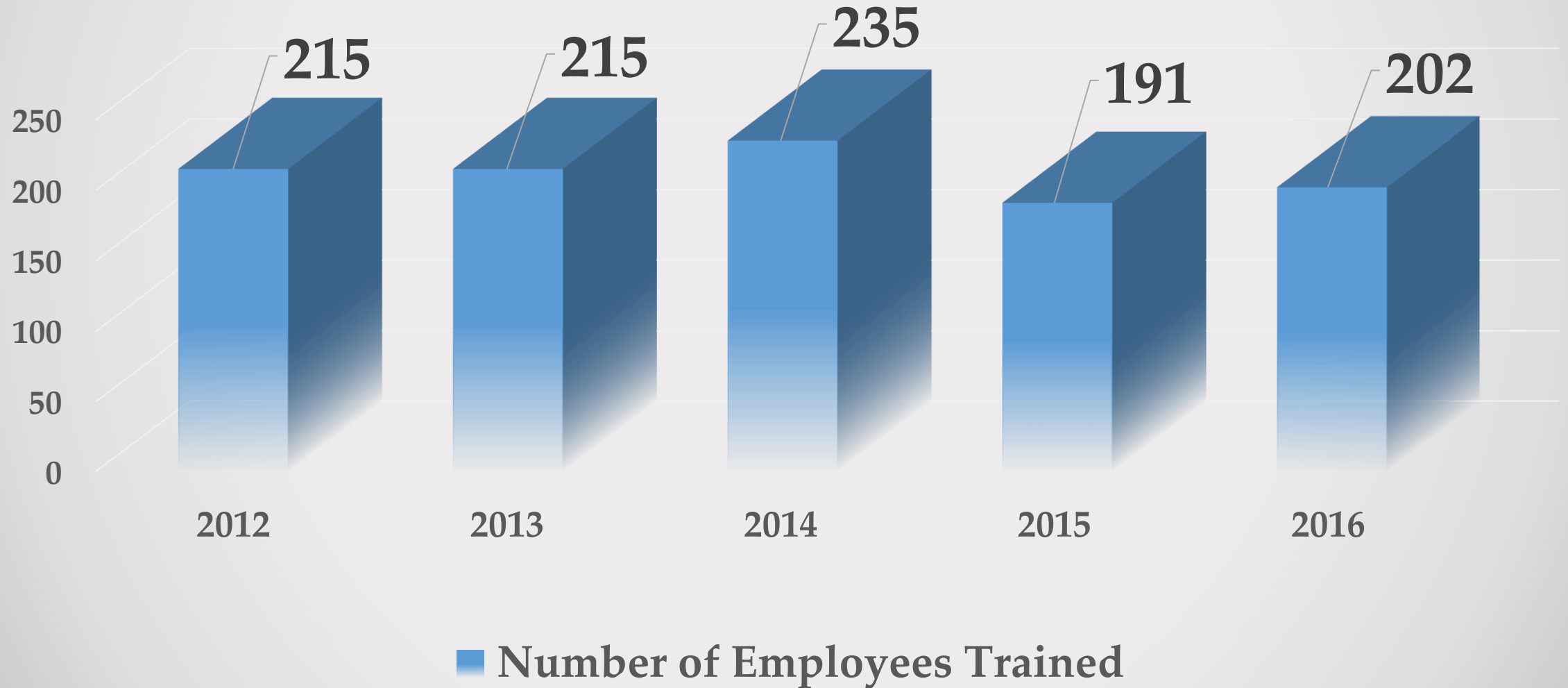
■ 2016 ■ 2015 ■ 2014 ■ 2013

Number of Trainings

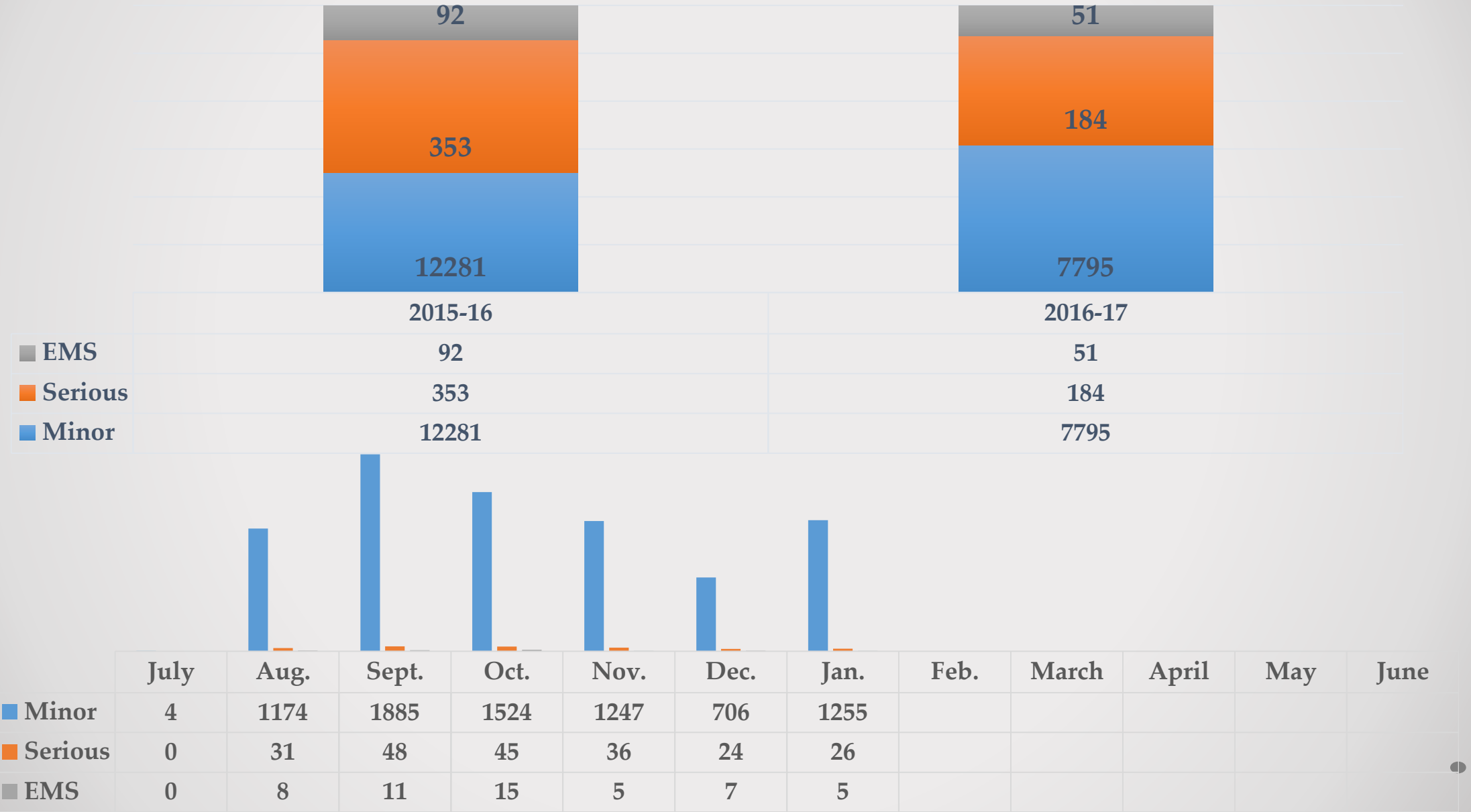


■ 2016 ■ 2015 ■ 2014 ■ 2013

SUMMER INSTITUTE SAFETY TRAINING



STUDENT ACCIDENTS



OSHA INSPECTIONS

- **2016**: Two (2) Inspections – Two (2) citations with a penalty of \$3,000.00 reduced to \$1,950.00. One (1) citation resulted in Zero (\$0).
- **2015**: Zero (0) Inspections – Zero (0) citations
- **2014**: One (1) Inspection – One (1) citation with a penalty of \$5,000.00 reduced to \$500.00
- **2013**: Zero (0) Inspections – Zero (0) citations
- **2012**: Zero (0) Inspections – Zero (0) citations



Chris Noe, BS, KJM

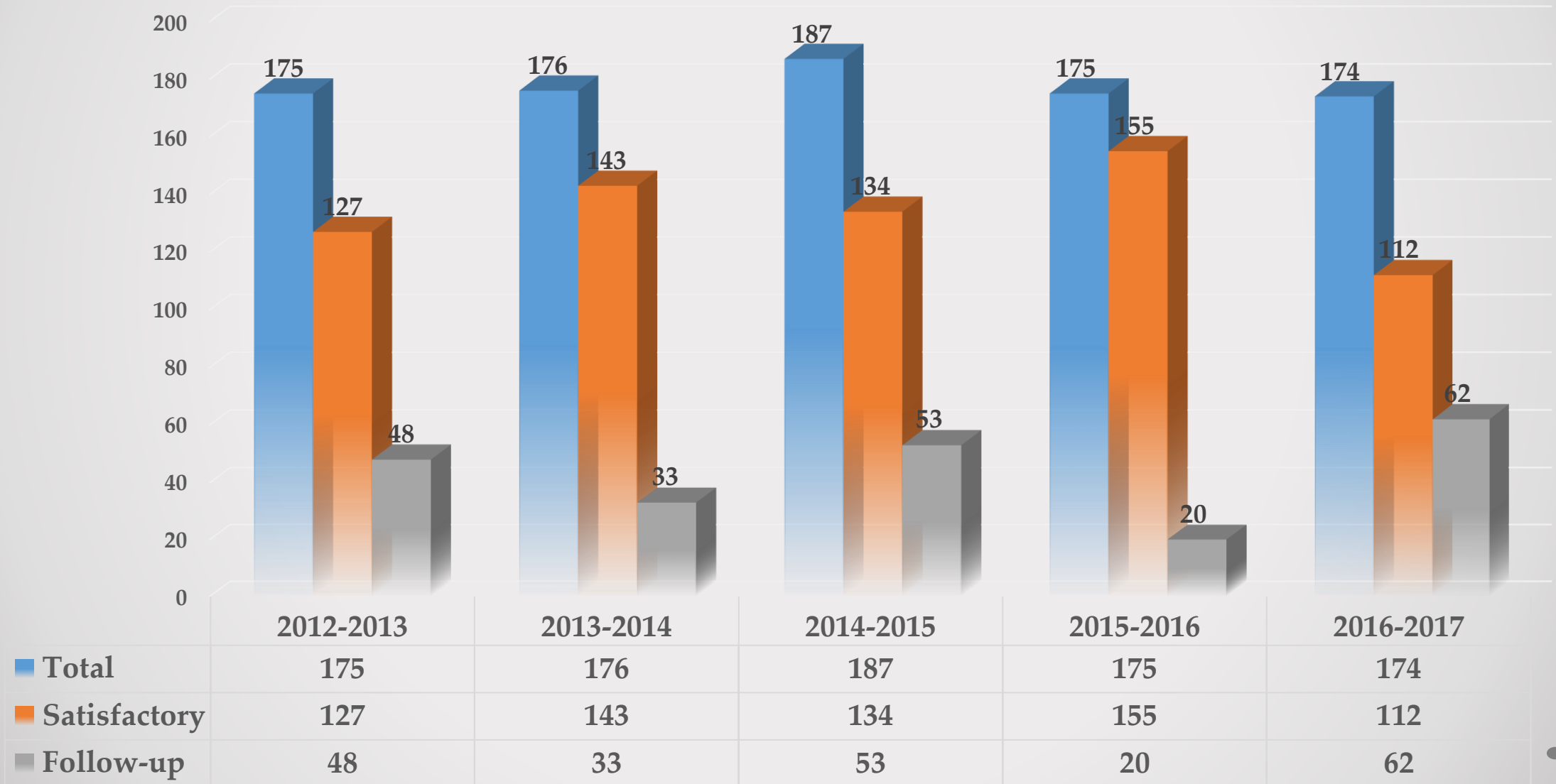
Safety Inspector

Safety & Environmental Services

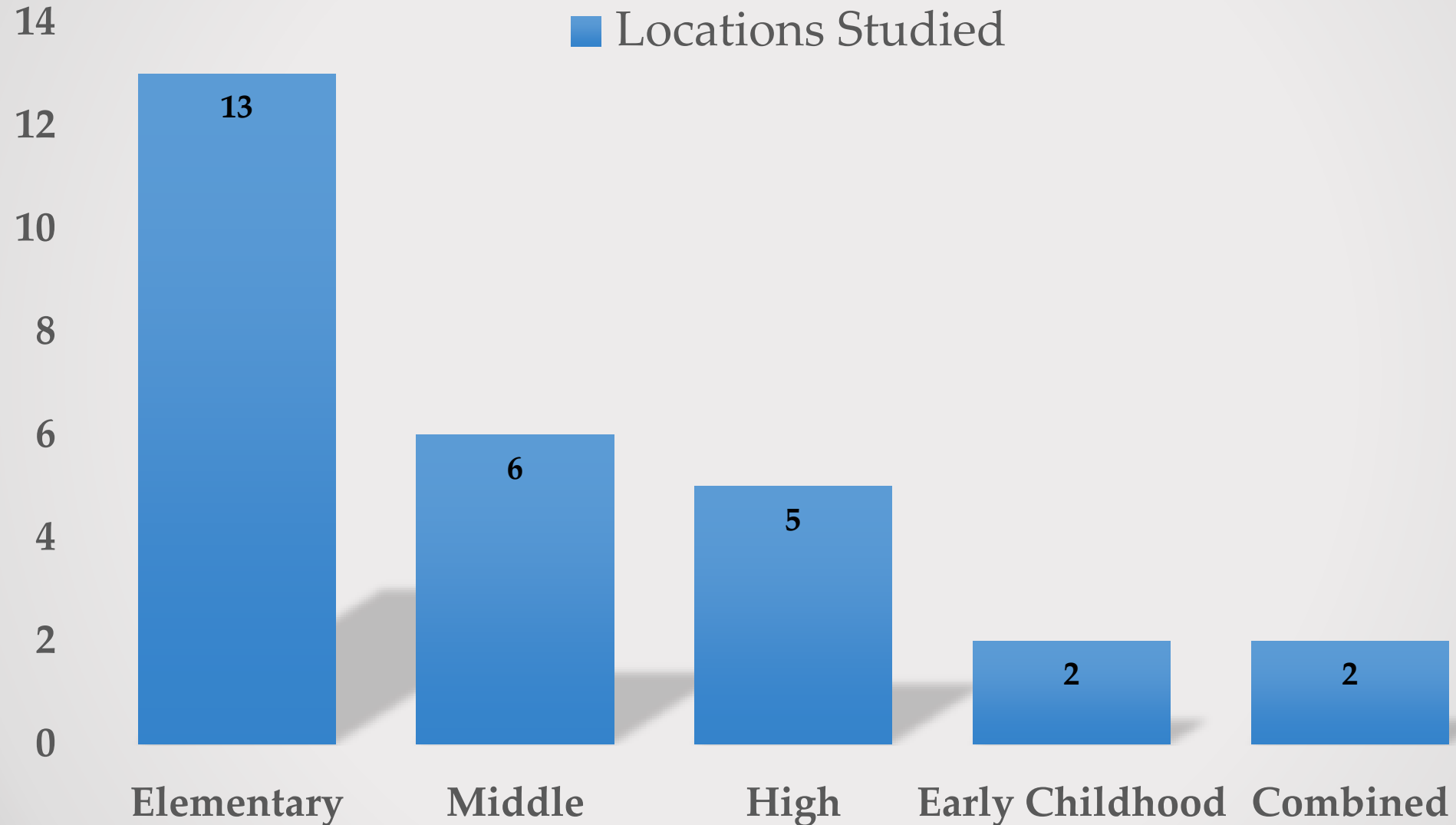
christopher.noe@jefferson.kyschools.us

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FIRE MARSHAL INSPECTIONS

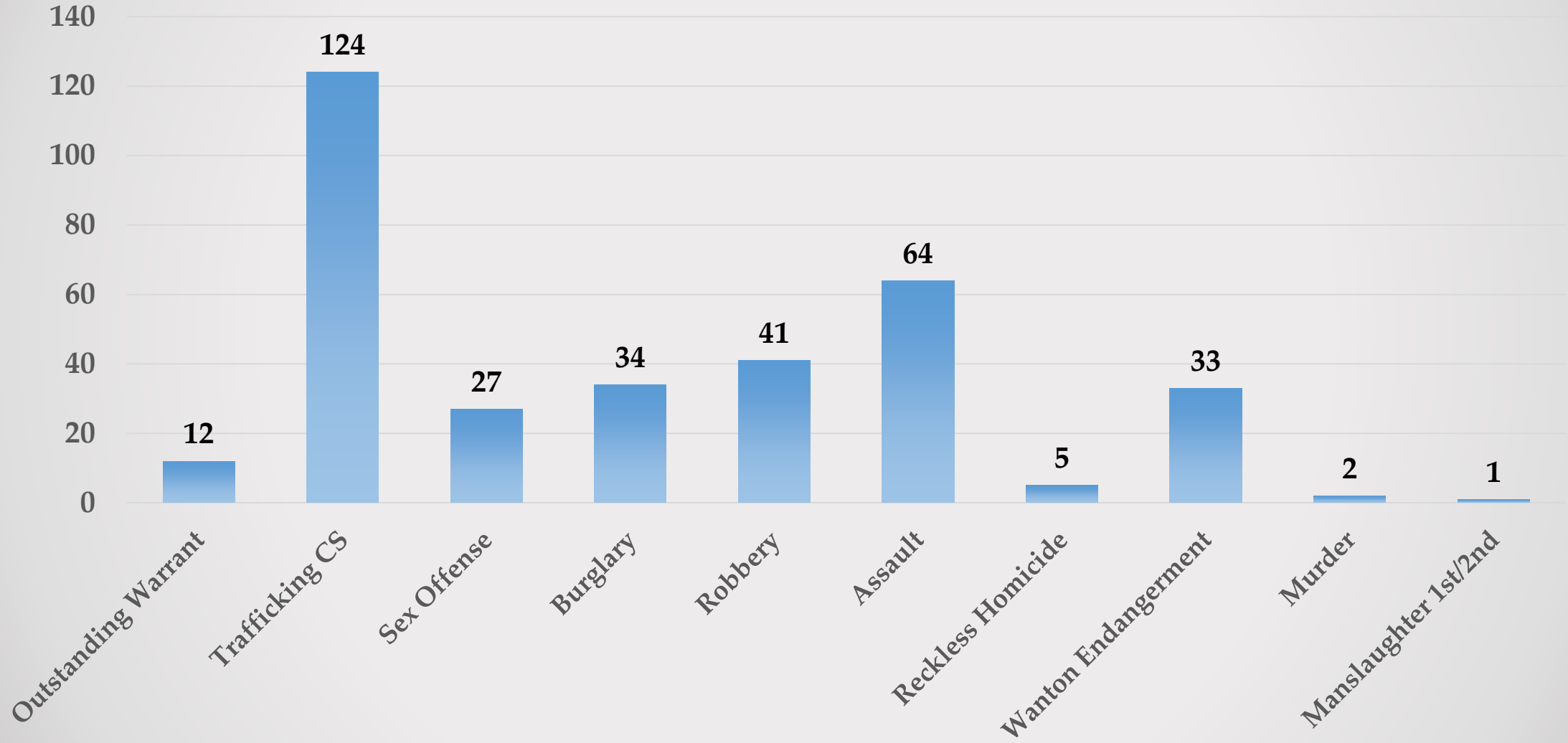


TRAFFIC STUDIES 2016-17



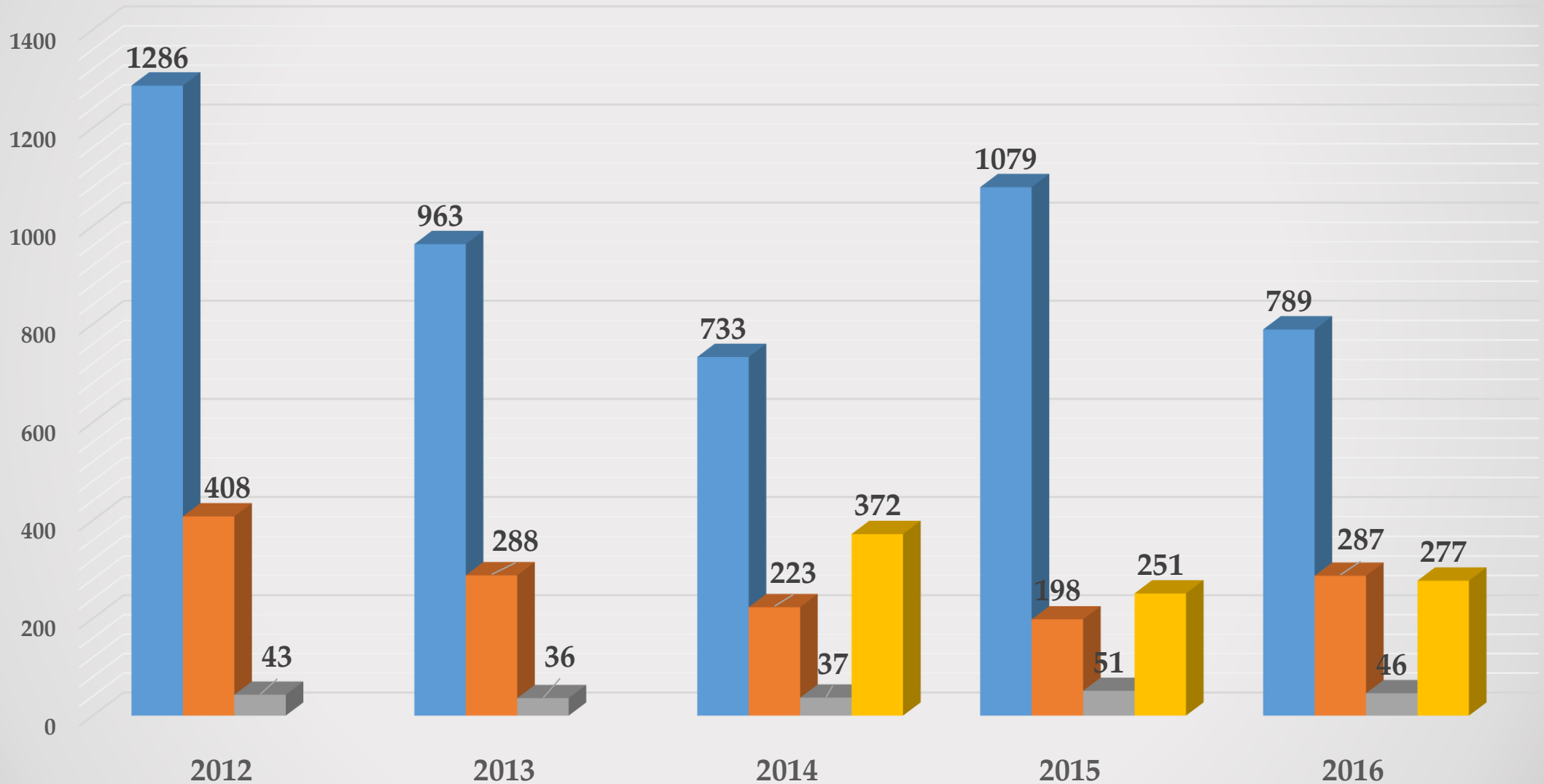
WORKFORCE ELIGIBILITY

Total Rejections Since Program Began



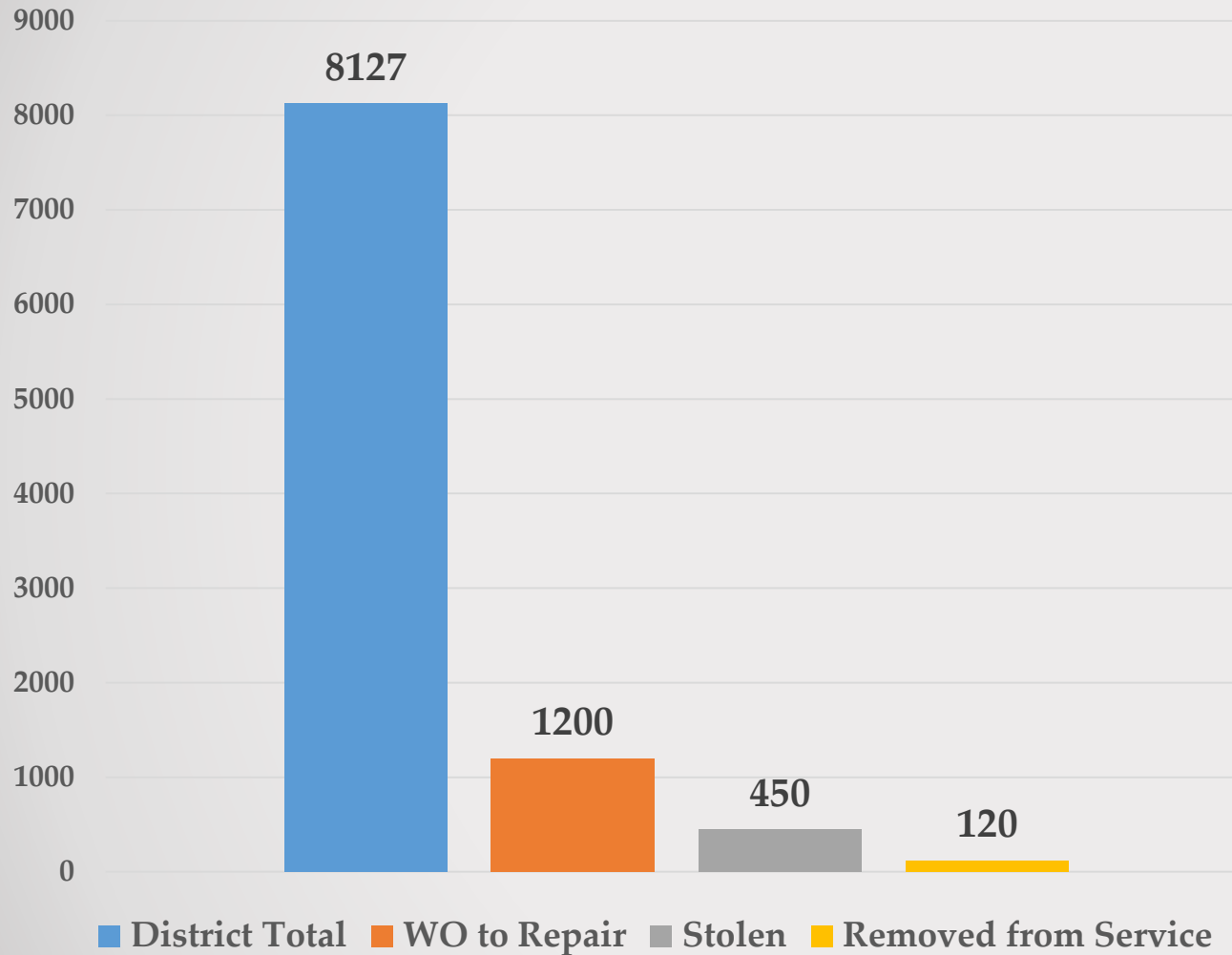
Those fingerprinted who were not rejected received badges.

WORKFORCE ELIGIBILITY

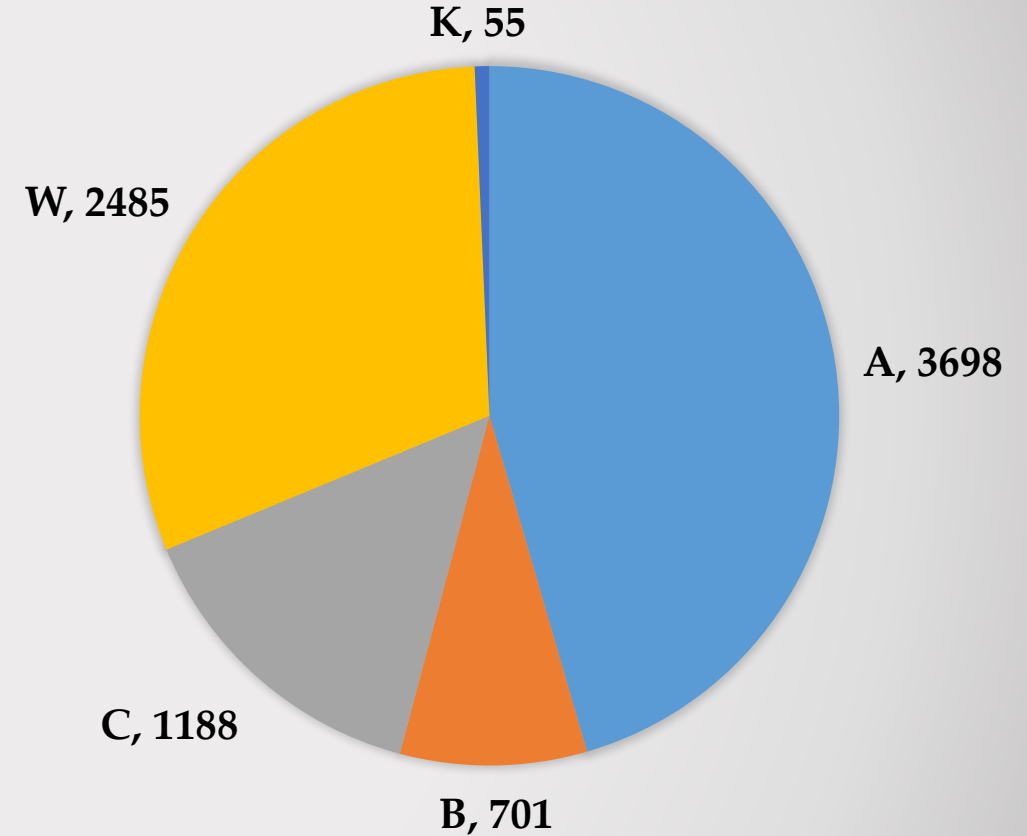


■ Contractor Applications ■ Bus Driver ■ Rejections ■ Renewals

FIRE EXTINGUISHER PROGRAM 2016



EXTINGUISHERS CLASS, TOTALS



Work Orders are for repair to Fire Extinguishers and related equipment.

Joe Irwin

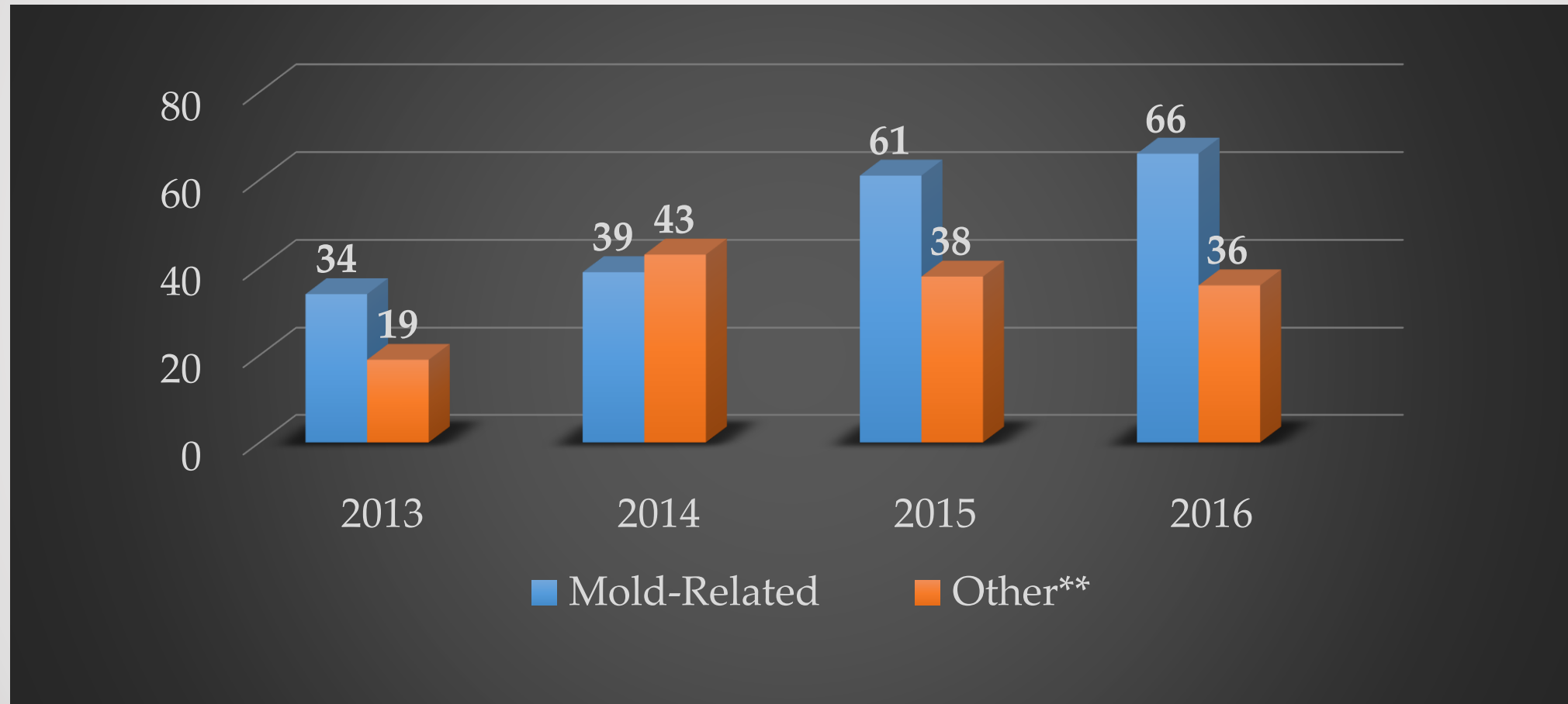
Environmental Coordinator

Safety & Environmental Services

joseph.irwin@jefferson.kyschools.us

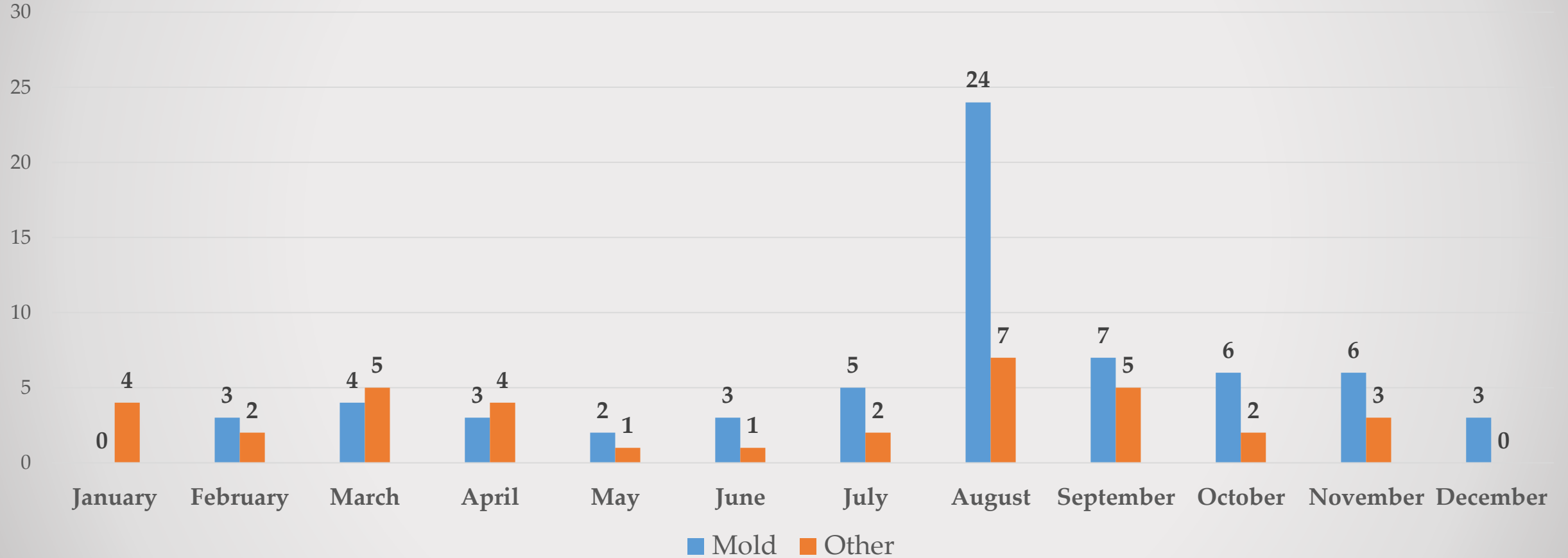
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INDOOR AIR QUALITY (IAQ) INVESTIGATIONS

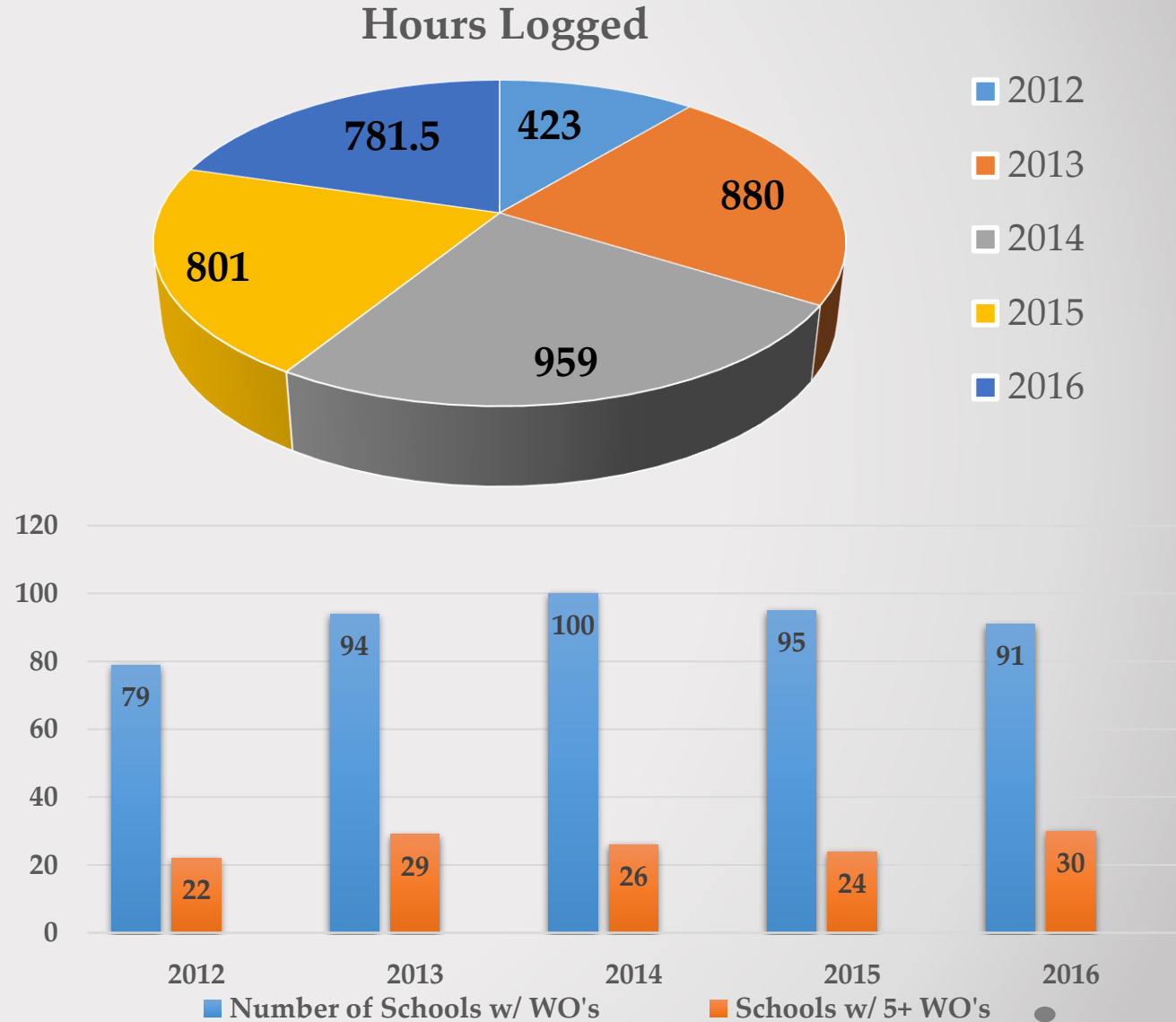
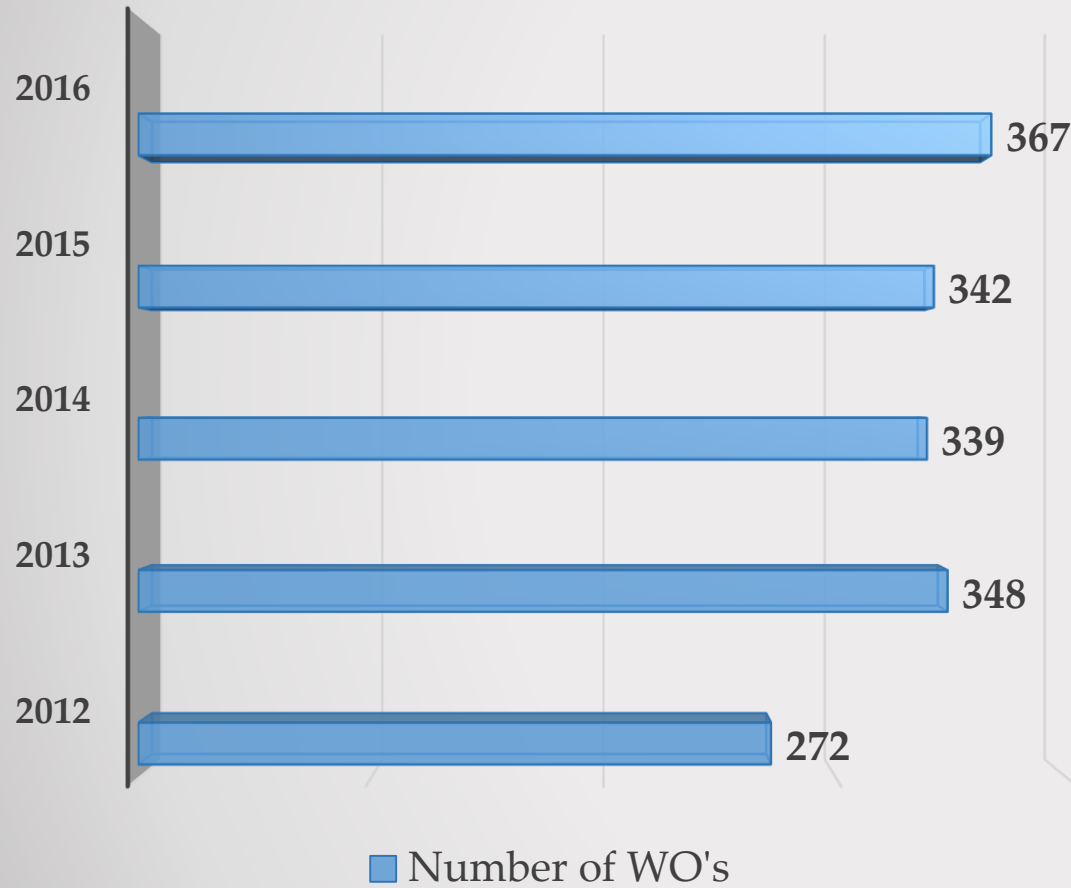


**Sewer odors, unknown odor, or air quality related.

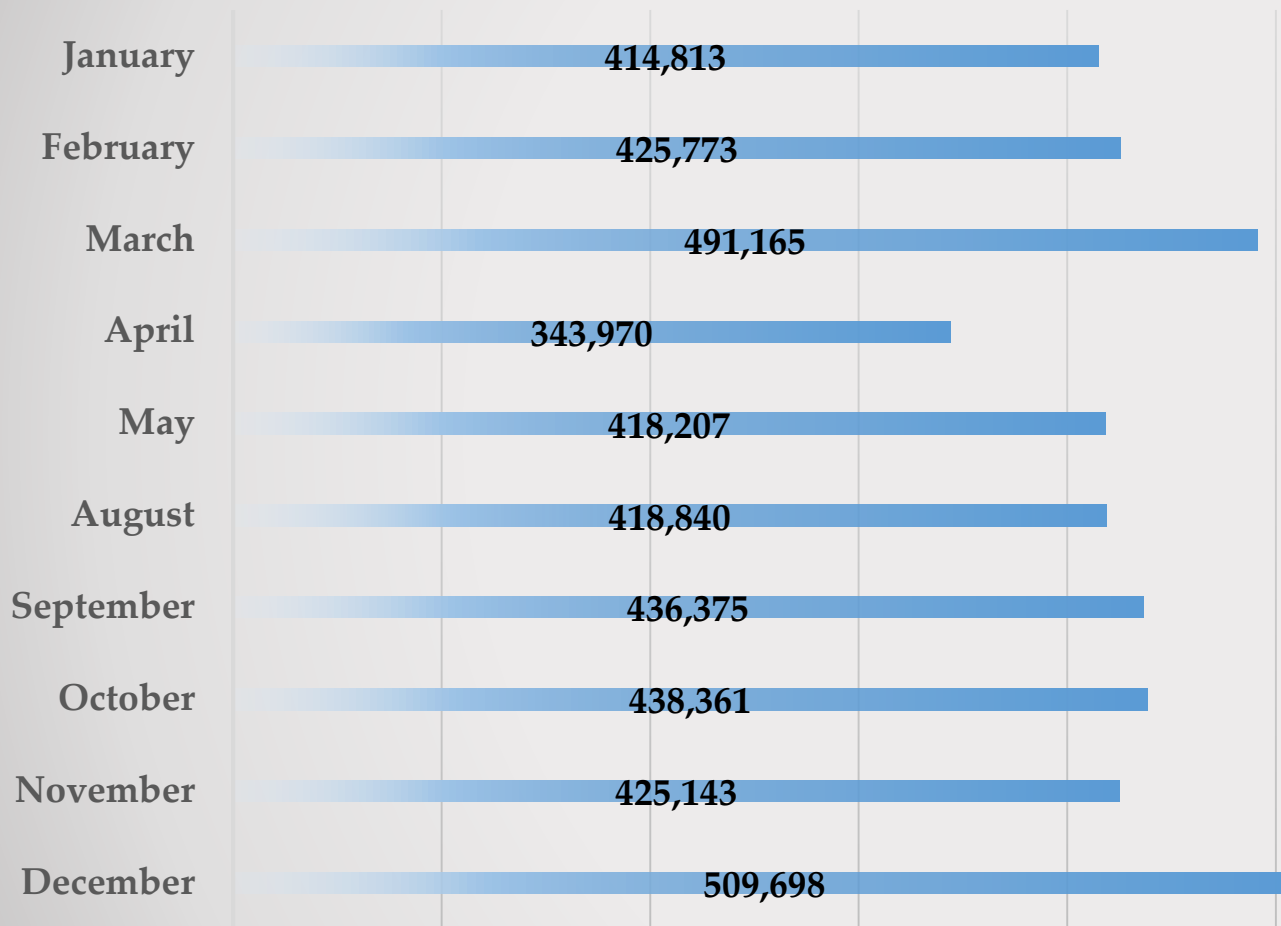
IAQ REQUESTS 2016- PER MONTH



BEDBUG WORK ORDERS

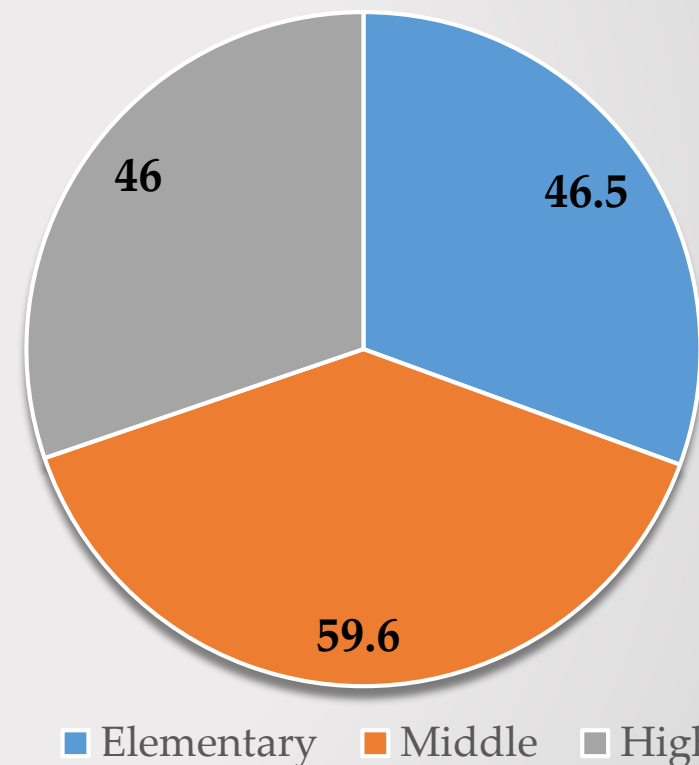


RECYCLING 2016



POUNDS PER MONTH

Average Recycle Pounds per Student



GENERAL RECYCLING INFORMATION

- Schools are recycling between 15 to 80 percent depending on the location.
- During the summer months (June 1 through August 12) 700,000 pounds were recycled.
- There are 35 elementary schools and 4 middle schools participating in cafeteria recycling.
- January 1 through December 31, 2016 there were 33,863 waste tips and 10,233 recycle tips.



Total Pounds – Recycled Material All JCPS Schools

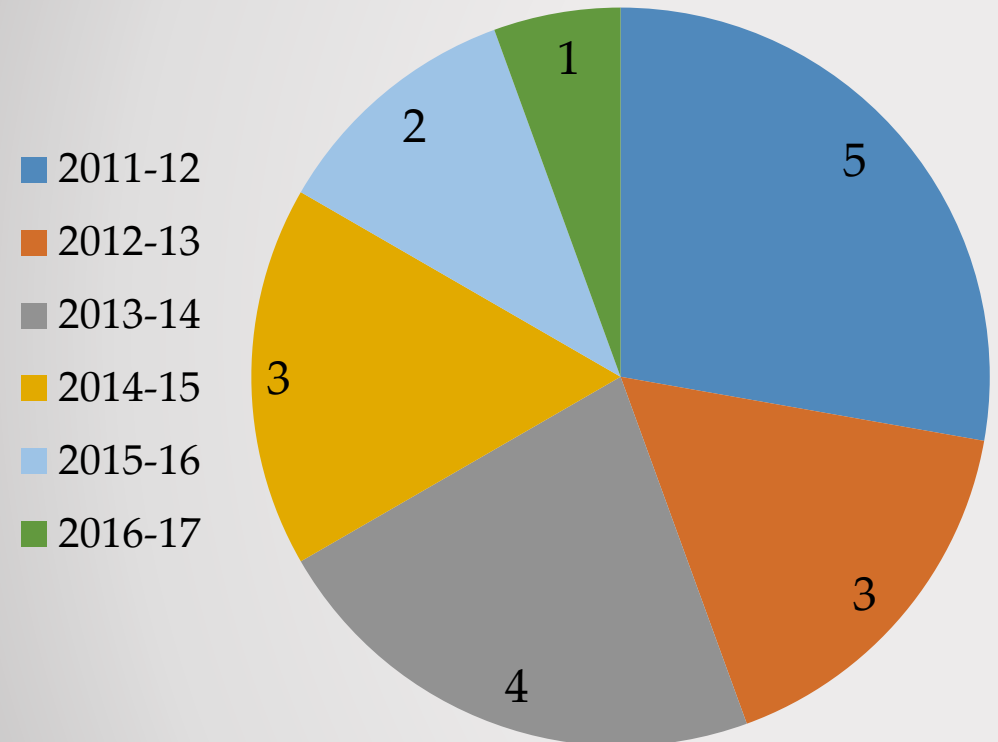


- 2012/2013 School Year: 2,378,780 Pounds
- 2013/2014 School Year: 1,566,640 Pounds
- 2014/2015 School Year: 3,632,301 Pounds
- 2015/2016 School Year: 4,320,000 Pounds



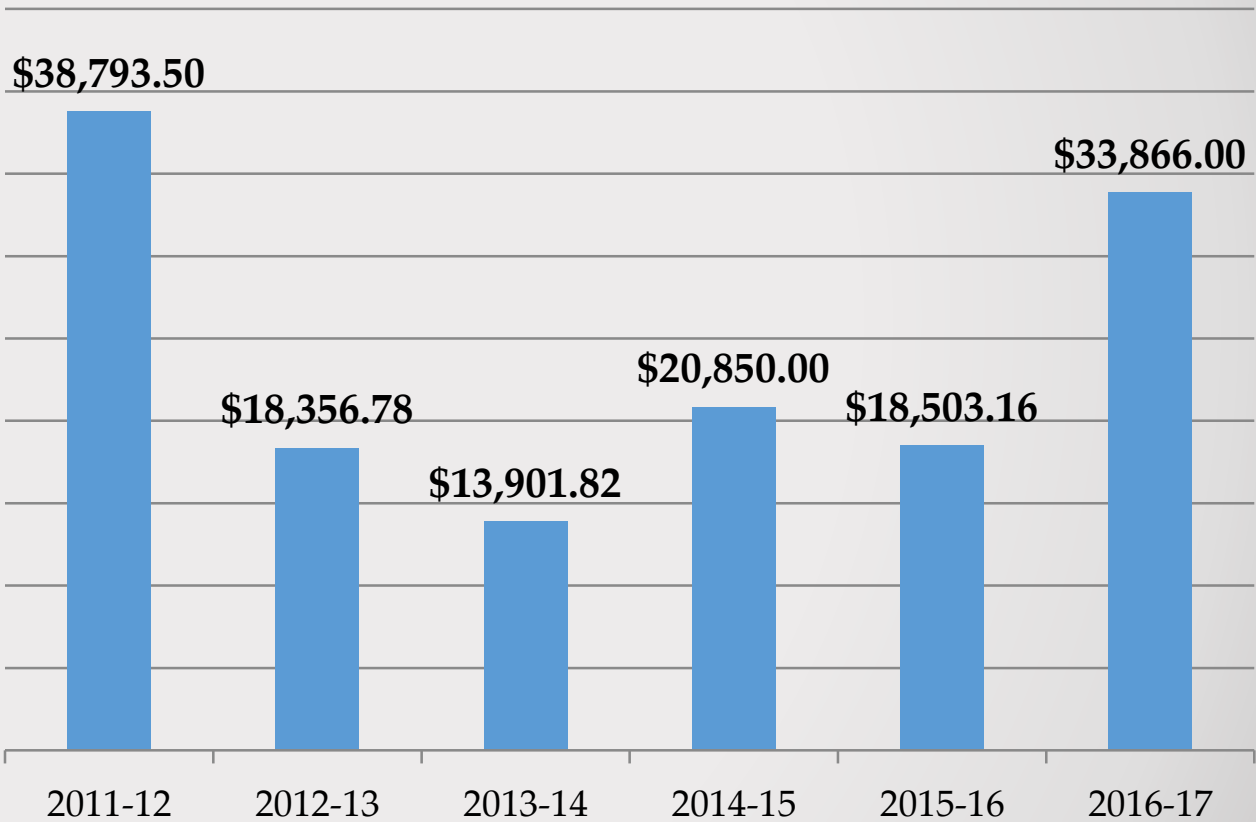
HAZARDOUS CHEMICAL DISPOSAL

Chemical Pick-Ups



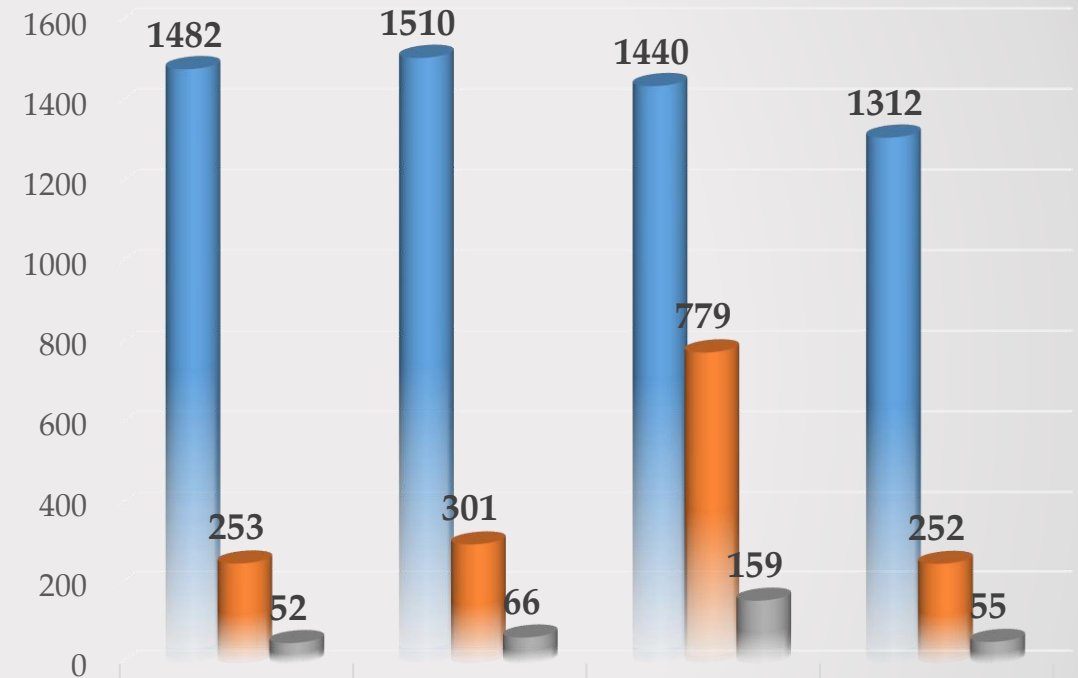
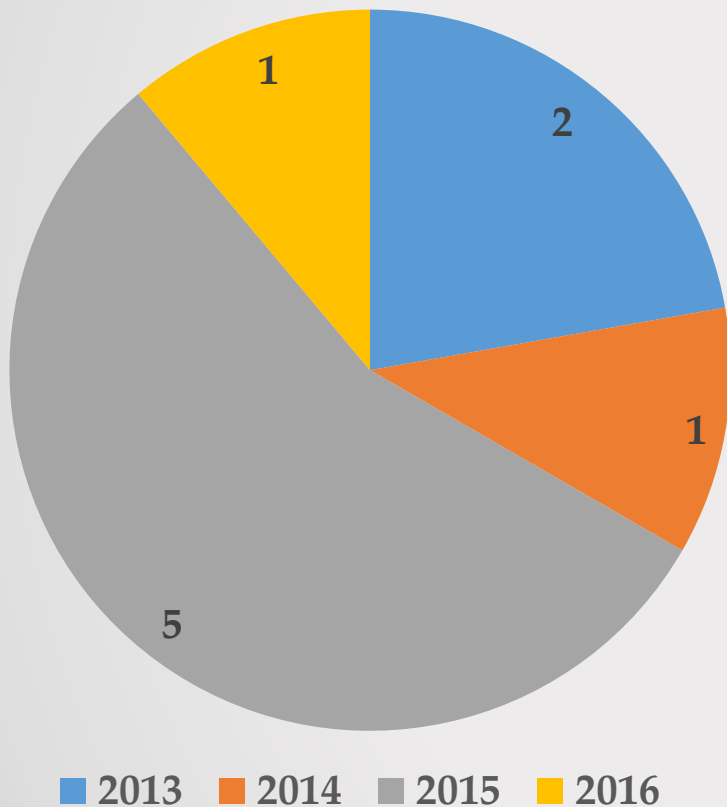
****Each pick-up includes multiple locations.**

Costs



ALCOHOL & CONTROLLED SUBSTANCE TESTING

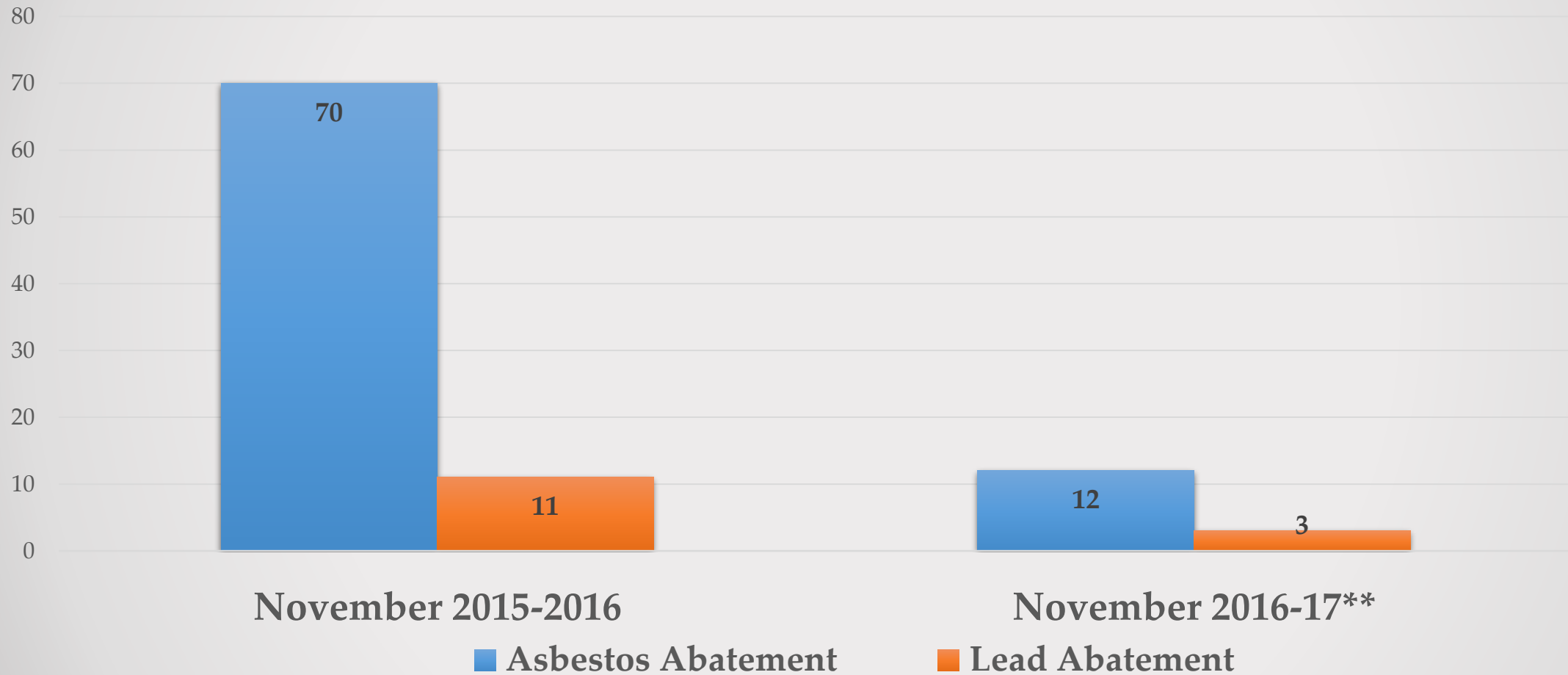
Positive Tests per Year



Average Participants	1482	1510	1440	1312
Substance Tests	253	301	779	252
Alcohol Tests	52	66	159	55

The cost of testing for the CDL selections is \$41.00 per Controlled Substance test and \$20.00 per alcohol test.

ASBESTOS AND LEAD ABATEMENT PROGRAM



****Work to be completed by November 2017**

Josh Tennen, MSES, EMIT, LEED GA

Energy Auditor

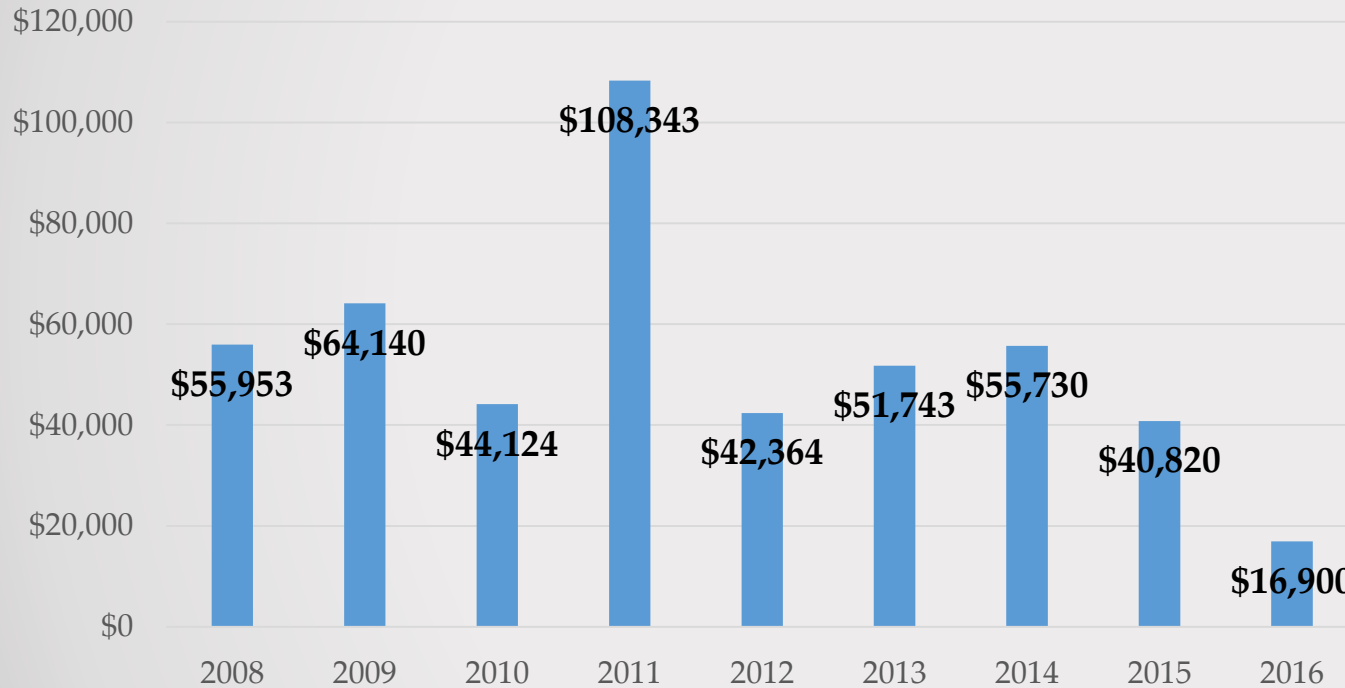
Safety & Environmental Services

joshua.tennen@jefferson.kyschools.us

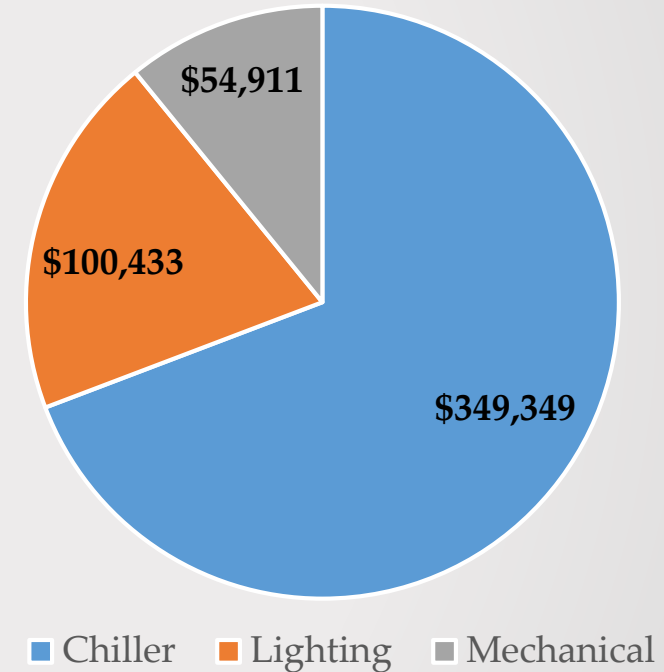
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COMMERCIAL REBATES

Rebates Received,
Totaling \$504,693



Rebate Distribution
2008 through 2016

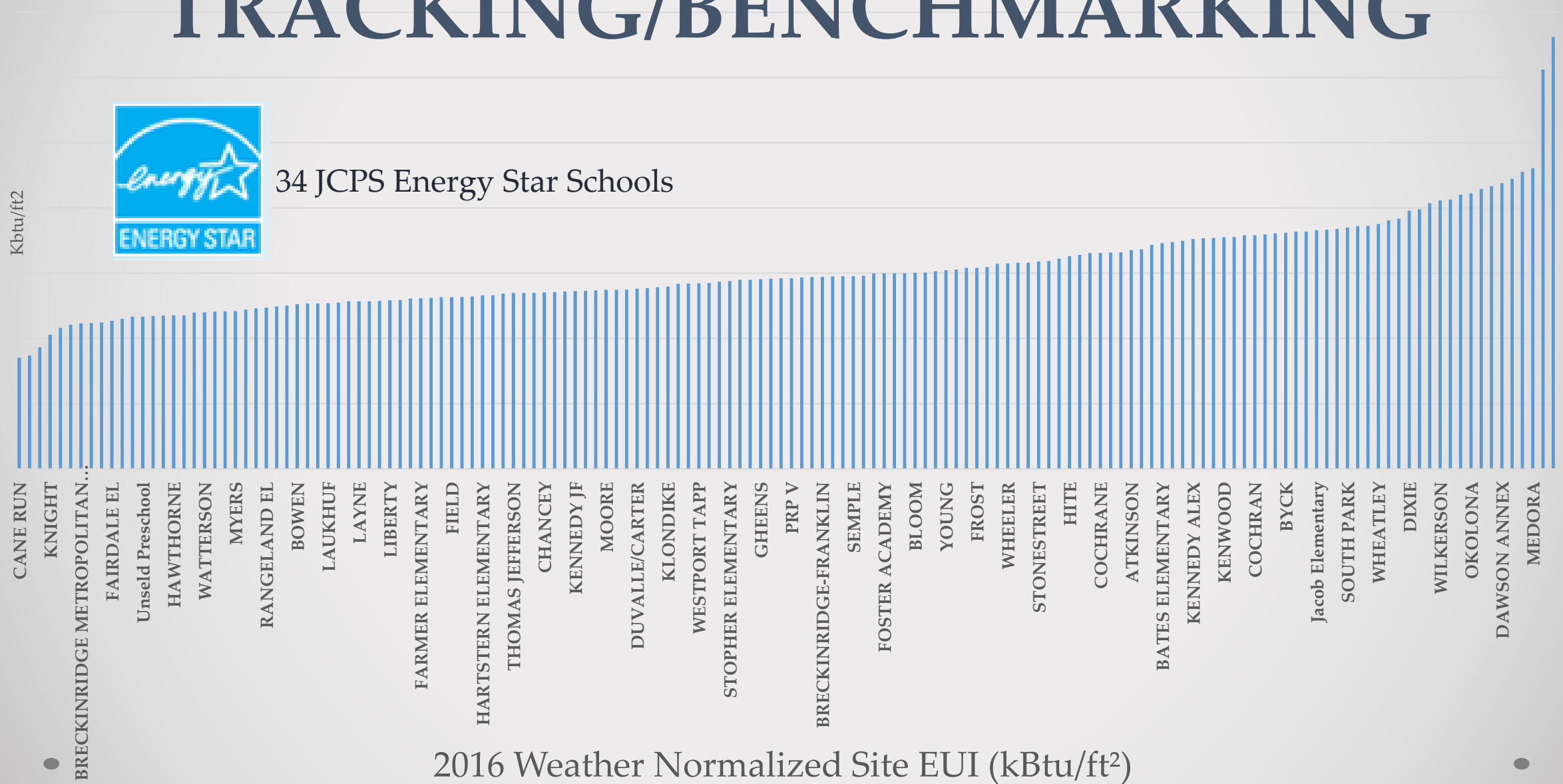


Rebates are offered for A/C Units, Chillers, Custom Projects, Energy Audits, LEED Major Renovations, Lighting, Motors, Pumps, and VFDs.

GAS, ELECTRIC, AND WATER TRACKING/BENCHMARKING



34 JCPS Energy Star Schools



DEMAND CONSERVATION PARTNERSHIP WITH ENERNOC



Company	Account	Site Name	Program ID	Avg Nomination (kW)	Total Delivered (kWh) UNCapped	Avg. Delivered (kW) UNCapped	Avg. Delivered (kW) CAPPED	Incentive Payment
				1,315	8,884	555	555.26	\$ 13,881.44
LG&E	Jefferson County Public Schools	JCPS - Atherton High School - Louisville - KY	LGE165523	90	100	6	6	\$ 156.19
LG&E	Jefferson County Public Schools	JCPS - Fern Creek High School - Louisville - KY	LGE165525	50	391	24	24	\$ 610.25
LG&E	Jefferson County Public Schools	JCPS - JCTMS - Louisville - KY	LGE165526	100	68	4	4	\$ 105.94
LG&E	Jefferson County Public Schools	JCPS - Male High School - Louisville - KY	LGE165527	100	726	45	45	\$ 1,133.69
LG&E	Jefferson County Public Schools	JCPS - Seneca High School - Louisville - KY	LGE165528	150	368	23	23	\$ 575.44
LG&E	Jefferson County Public Schools	JCPS - Southern High School - Louisville - KY	LGE165529	50	471	29	29	\$ 736.25
LG&E	Jefferson County Public Schools	JCPS - Thomas Jefferson High School - Louisville - KY	LGE165530	50	1,959	122	122	\$ 3,061.13
LG&E	Jefferson County Public Schools	JCPS - Waggener High School - Louisville - KY	LGE165531	100	1092.32	68.27	68.27	1706.75
LG&E	Jefferson County Public Schools	JCPS - Moore High - Louisville, KY	LGE63051	150	126.92	7.9325	7.9325	198.3125
LG&E	Jefferson County Public Schools	JCPS - Iroquois High School - Louisville, KY	LGE63049	200	1671.04	104.44	104.44	2611
LG&E	Jefferson County Public Schools	JCPS - Ballard High - Louisville, KY	LGE63050	100	1511.36	94.46	94.46	2361.5
LG&E	Jefferson County Public Schools	JCPS - Eastern High - Louisville, KY	LGE63052	100	400	25	25	625
LG&E	Jefferson County Public Schools	JCPS - Valley High - Louisville, KY	LGE63053	75	0	0	0	0

KY BOILER AND PRESSURE VESSEL INSPECTION AND CERTIFICATION

- 216 boiler inspections a year
- 3 steam system inspections a year
- Water heater tracking

POST UNDER GLASS IN BOILER ROOM

Kentucky
UNBROKEN SPIRIT

FMB-39-14
Rev. 7-21-06

PUBLIC PROTECTION CABINET
DEPARTMENT OF HOUSING, BUILDINGS AND CONSTRUCTION
BOILER AND PRESSURE VESSEL INSPECTION SECTION
FRANKFORT, KENTUCKY 40601

CERTIFICATE OF OPERATION

DATE INSPECTED	STATE NO.	NATIONAL BOARD NO.	EXPIRATION DATE
09/30/2016	KY094517	148557	09/30/2018

TYPE: FT
MANUFACTURER: AIC
SV PRESSURE (PSI): 50
PRESSURE ALLOWED (PSI): 160
YEAR BUILT: 2014
INSPECTED BY: Mark Jordan
LOCATION OF BOILER: Boiler Room

LOCATION:
JCPS ATKINSON ELEMENTARY SCHOOL
2800 ALFORD AVE
LOUISVILLE KY 40212-1900

CERTIFICATE MAY BE REVOKED FOR FAILURE TO KEEP VESSEL IN STANDARD SAFE CONDITION

This is to certify that the boiler herein described may be operated at pressure not to exceed that shown above and only at the location specified herein.

MAIL TO:
KEVIN STOLTZ
JCPS JEFFERSON CO PUBLIC SCHOOLS
3001 CRITTENDEN DR # 11
LOUISVILLE KY 40209-1119

MDL Jordan
Chief Boiler Inspector

[Signature]
Commissioner

PRE AND POST ENERGY PROJECT ANALYSIS

Liberty High

Post Renovation Cost Savings Average of \$38,000/year

