



LFD ANNUAL REPORT 2021

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MISSION STATEMENT

We, the members of Lancaster Fire Department, are committed to our community by providing excellence in emergency response services. We recognize our role, and will continue the tradition of protecting and enhancing the quality of life for our citizens, and our visitors, with a focused commitment to provide well trained, highly motivated and properly equipped personnel.

VISION STATEMENT

The Lancaster Fire Department aims to be the premier all-hazards emergency response department in south central Ohio. Through integrity, professional development, stewardship and compassion, our department will be set on a predictable and sustainable course for the future.

VALUE STATEMENT

1. We recognize the citizens are the reason for our presence.
2. We value the trust the citizens place in us and we will continually strive to build upon trust by having a positive attitude, professional conduct and providing value added service.
3. We value lives more than property.
4. Everyone deserves our best.



LFD ORGANIZATION



- 1 - Chief
- 1 - Asst. Chief
- 2 - Administrative Assts.
- 4 - Captains
- 9 - Lieutenants
- 53 - Firefighter/Paramedics
- 3 - Inspectors/Firefighters
- 1 - 40-Hr. Inspector



**ASST. CHIEF
STEVE MAFFIN**



CHIEF DAVID WARD



**CAPT. SLADE
SCHULTZ**



**CAPT. GEORGE
BANJOFF**



**CAPT. CRAIG
SPILLER**



**CAPT. LARRY
MOORE**



LT. DAVE MEDAUGH



LT. STEVE BURTON



LT. SHAWN KLAAMEYER



LT. JOHN CRAIGLOW



LT. MIKE LONG



LT. COREY SNOCK



LT. JAMES BAKER



LT. JEREMY KRANER



LT. JOSHUA HARRIS



ENGINE HOUSE No. 1
254 E. CHESTNUT ST.

Constructed: 1898

Frontline Apparatus: Tower 1, Medic 1, CV-1, Medic 4



ENGINE HOUSE No. 2
601 HARRISON AVE.

Constructed: 1957

Frontline Apparatus: Engine 2, Medic 2, Grass 508



ENGINE HOUSE No. 3
1596 E. MAIN ST.

Constructed: 1967

Frontline Apparatus: Engine 3, Medic 3, FP-1
Houses Administration and Prevention/Investigation



LFD REAL ESTATE

FRONTLINE APPARATUS

ENGINE HOUSE NO. 1

Tower 1: 2006 Sutphen SPH 100'
 Medic 1: 2016 Horton
 CV-1: 2018 Ford Explorer
 Medic 4: 2008 Horton



ENGINE HOUSE NO. 2

Engine 2: 2020 Rosenbauer
 Medic 2: 2019 Horton
 Grass 508: 1973 Chevrolet



ENGINE HOUSE NO. 3

Engine 3: 2013 Rosenbauer
 Medic 3: 2013 Horton
 FP-1: 2012 Ford Escape



RESERVE/STAFF EQUIPMENT

EQUIPMENT	CONDITION
2014 Ford Escape (2) – Chief’s Cars.....	Excellent
2010 Horton Medic	Fair
2002 Dodge Ram – Station Truck	Poor
1994 Scotty Safety House.....	Fair
2012 Rosenbauer	Good
2020 Ford 250.....	Excellent

2021 FUEL CONSUMPTION

DIESEL FUEL (IN GALLONS)	15,219.50
GASOLINE (IN GALLONS).....	2,750.50

LFD COMMUNICATIONS The Lancaster Fire Department uses a robust, APCO P25 digital and analog communication system which is proprietary to the City of Lancaster. The 911 Dispatch Center is located in the Lancaster Police Department headquarters where communication technicians field 911 calls for service. There are three (3) operational channels the fire department operates on: Dispatch, Fire Ground, and Back Up. Fire department apparatus are equipped with mobile radios and each on duty member is assigned a portable radio for communications.



FIRE DEPARTMENT STAFFING Frontline Staff: The Lancaster Fire Department's frontline response vehicles are staffed with a minimum of 16 personnel, 24 hours a day, 7 days a week, 365 days a year. Below is the minimal staffing model for 2021.

ENGINE HOUSE NO. 1

- Medic 1/Tower 1: Cross-staffed with three (3) personnel
- CV-1: Staffed by the Shift Captain
- Medic 1: Staffed with three personnel

ENGINE HOUSE NO. 2

- Medic 2: Staffed with three (3) personnel
- Engine 2/Grass 508: Staffed with three (3) personnel

ENGINE HOUSE NO. 3

- Medic 3: Staffed with three (3) personnel
- Engine 3: Staffed with three (3) personnel

16 MINIMUM

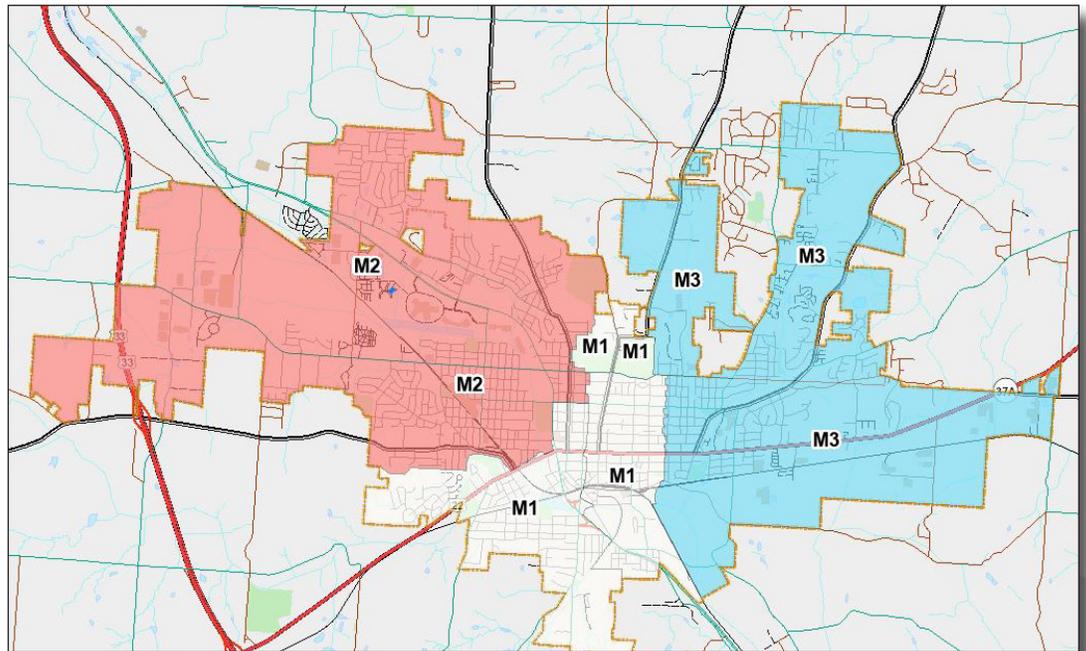
SUPPORT/ADMINISTRATIVE STAFF: The Lancaster Fire Department staffs support vehicles during normal business hours and are available for call in for an emergency.

- FP-1: Staffed with one (1) Inspector
- FP/PIO: Staffed by the Prevention Captain
- Unit 1: Staffed by the Chief
- Unit 2: Staffed by the Assistant Chief

RESPONSE DISTRICTS

The Lancaster Fire Department separates the 18 square miles of jurisdiction into three (3) response districts; Central (1), West (2), and East (3). The districts have been created as a result of response times, access, and run volume. The map below is a representation of those districts.

West: Red
 Central: White
 East: Blue



2021 TOTAL CALLS BY DISTRICT

WESTSIDE	4298
EASTSIDE	2677
CENTRAL	2392
MUTUAL AID	183
Total	9550

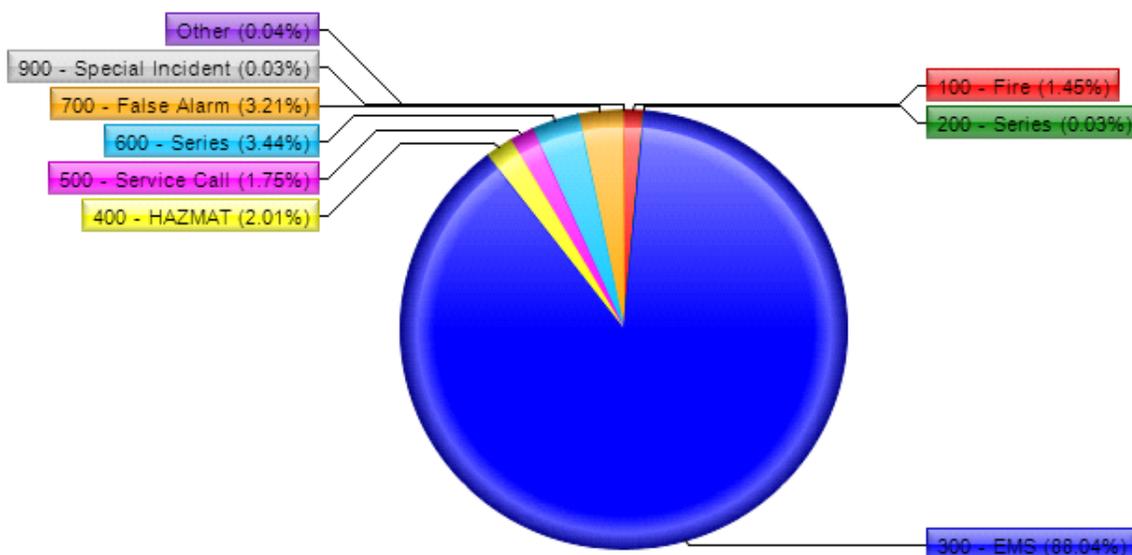
2021 TOTAL INCIDENTS

In 2018, Lancaster Fire Department changed reporting software in order to gain a better perspective of the total number of incidents and types of incidents. The incidents are broken down into five (5) categories. These categories correspond with NFIRS (National Fire Incident Reporting System). All incidents are reported to this national database through the State of Ohio Fire Marshal's office.

Total Incidents: 9600 EMS: 8,450 FIRE: 1,150

Incident Type Breakdown:

EMS/Rescue:	8,450
Fire:	141
Hazard:	533
Service Calls:	168
False Alarms:	308



2021 TOTAL INCIDENTS BY QUARTER

1st Quarter Total: 2,184

Fire: 33
 EMS: 1,945
 Hazard: 114
 Service Call: 41
 False Alarm: 51

2nd Quarter Total: 2,363

Fire: 35
 EMS: 2,061
 Hazard: 141
 Service Call: 44
 False Alarm: 82

3rd Quarter Total: 2,541

Fire: 39
 EMS: 2,244
 Hazard: 129
 Service Call: 39
 False Alarm: 90

4th Quarter Total: 2,589

Fire: 36
 EMS: 2,272
 Hazard: 149
 Service Call: 44
 False Alarm: 88

2021 TOTAL INCIDENTS

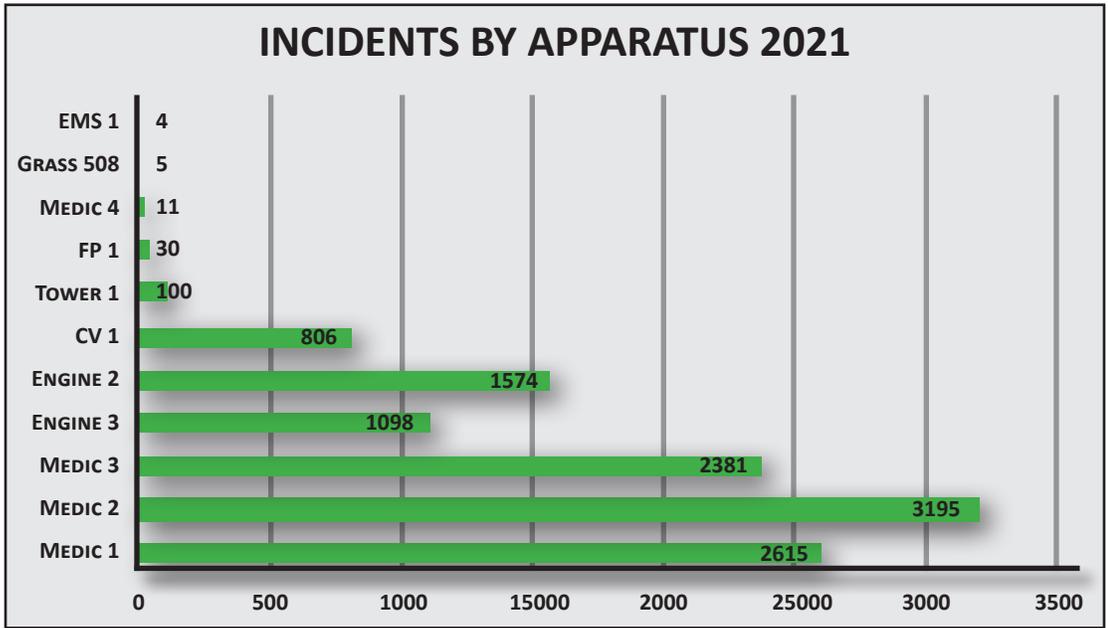


TOP 20 PROPERTY BREAKDOWN RESPONSES

1 or 2 family dwelling.....	4,858
Multifamily dwelling	1,602
24-hour care Nursing homes, 4 or more persons	702
Residential street, road or residential driveway.....	237
Street or road in commercial area	182
Residential board and care.....	129
Alcohol or substance abuse Clinics, doctors offices, hemodialysis cntr, other.....	127
Mercantile, business, other.....	103
Vehicle parking area.....	102
Restaurant or Cafeteria	95
Street, other.....	80
Jail, prison (not juvenile)	76
Motor vehicle or boat sales, Ind., utility, defense, agriculture, Manufacturing, processing	72
Doctor, dentist or oral surgeon office.....	70
Boarding/rooming house, residential hotels	68
Food and beverage sales, grocery store.....	65
Hotel/motel, commercial	63
Dormitory-type residence, other	60
Fire station	38
Service station, gas station.....	36

2021 INCIDENTS BY UNIT Below is a bar graph of the number of incidents each unit responded to in 2021. It is important to understand that this number is higher than the total incidents in 2020. This is because many times, more than one unit responds to a single incident. Tower 1 is cross staffed by the same personnel as Medic 1. When one of those units are on an incident, the other is out of service.

*FP-1 is a support staff unit staffed by one inspector, 7am – 3pm, Monday through Saturday. It only responds when requested by the Shift Captain.



INCIDENTS BY UNIT

2021 EMS INCIDENTS BY COMPLAINT

People call 911 for many reasons. During our assessment, we engage the situation and determine the patient’s medical complaint. Below are the 20 most common complaints given to EMS upon our arrival.

20 Most Common Calls for EMS in 2021:

Primary Impression	Number of Calls
No Complaints or Injury/Illness Noted	763
Injury	665
Generalized Weakness	570
Chest Pain / Discomfort.....	394
Abdominal Pain	381
Extremity Pain	298
Shortness of breath	275
Back Pain	262
Anxiety reaction/Emotional upset.....	252
Patient assist only.....	249
Pain (Non-Traumatic).....	213
Seizures	212
Dizziness	186
Syncope / Fainting	166
Altered Mental Status.....	164
Acute Respiratory Distress (Dyspnea)	151
Overdose - Other opioids	123
Nausea.....	122
Malaise	118
Laceration/Abrasion/Hematoma (minor surface trauma).....	118

2021 EMS INCIDENTS BY DISPOSITION

The disposition of a call is also referred to as the outcome. The list below details the end result of all EMS calls in 2021.

Disposition	Number of Calls
Transported No Lights/Siren.....	4876
Patient Evaluated, No Treatment/Transport Required	1548
Patient Treated, Released (per protocol).....	490
Patient Refused Evaluation/Care (Without Transport)	480
Patient Treated, Released (AMA).....	318
Transported Lights/Siren	251
Cancelled (No Patient Contact)	180
Cancelled on Scene/No Patient Found	153
Patient Dead on Scene - No Resuscitation Attempted (Without Transport).....	109
Cancelled (Prior to Arrival at Scene).....	100
Patient Treated, Transferred Care to Another EMS Professional.....	54
Patient Treated, Transported by Law Enforcement	27
Patient Dead on Scene - Resuscitation Attempted (Without Transport)	24
Patient Treated, Transported by Private Vehicle.....	17
Patient Treated, Transferred Care to Another EMS Professional/Unit	9
Standby - Public Safety, Fire, or EMS Operational Support Provided	7
Assist, Agency.....	2

2021 EMS INCIDENTS MEDICATIONS

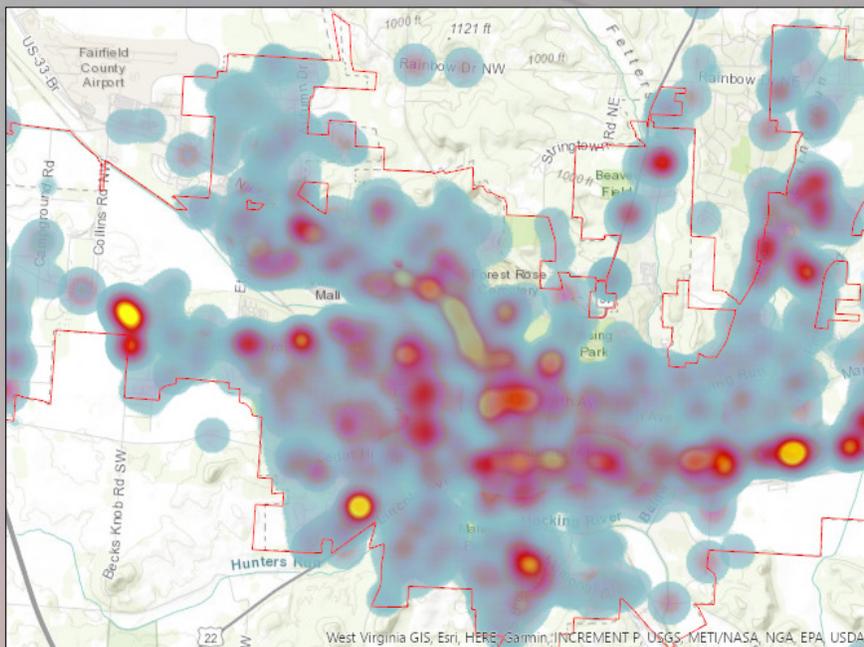
ADMINISTERED There are about 33 medications Lancaster Fire Paramedics can give to patients that result in treating pain, helping the patient feel comfortable, and saving their life. Patients may require multiple doses of a medication. Below is a breakdown of the name of the medication and how many times it was given in 2021.

Treatment Name Total Doses: 2,473

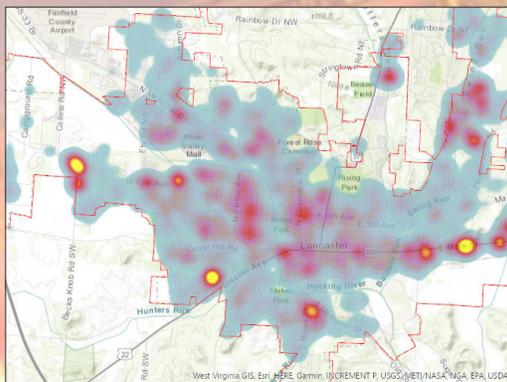
Adenosine.....	22
Afrin.....	13
Albuterol.....	224
Amiodarone.....	34
Aspirin.....	262
Atropine	8
Atrovent	218
Benadryl	15
Decadron	117
Dextrose 10%.....	87
Epinephrine 1:1	10
Epinephrine 1:10	186
Epinephrine Infusion	4
Fentanyl.....	119
Glucagon	9
Ibuprofen	4
Ketamine	63
Lidocaine	4
Narcan	188
Nitro Paste.....	192
Nitro Spray.....	243
Oral Glucose	31
Other - Medication	266
Racemic Epinephrine.....	2
Saline	9
Sodium Bicarb 8.4%	29
Solu-Medrol.....	1
Succinylcholine	41
Tranexamic Acid (TXA)	6
Versed.....	66

2021 INCIDENTS MAPS

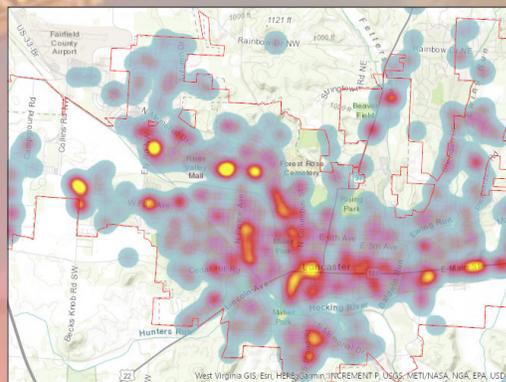
2021 ALL INCIDENTS HEAT MAP



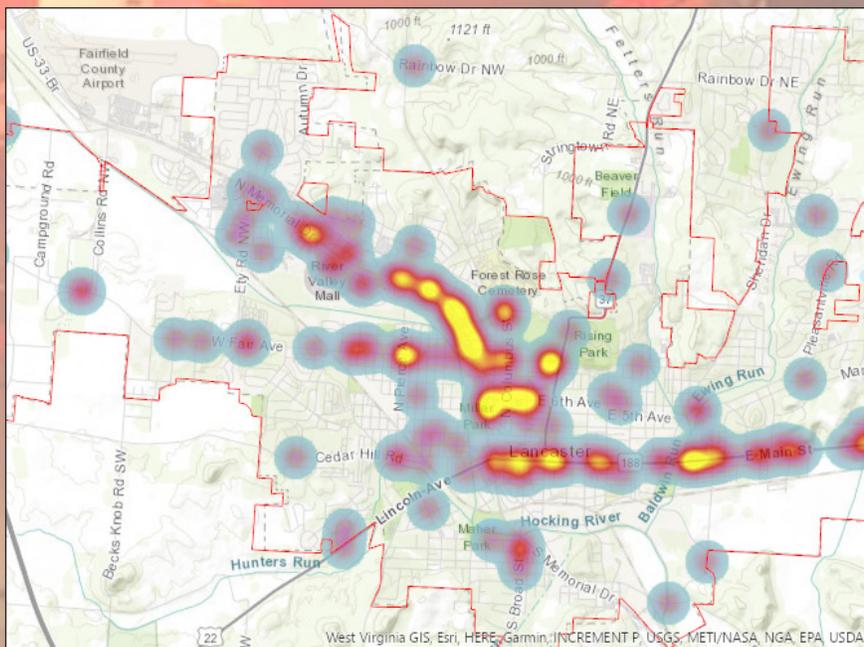
EMS HEAT MAP



FIRE HEAT MAP



2021 MVA HEAT MAP



FIRE INCIDENTS BREAKDOWN BY TYPE AND NUMBER

20 Most Common Calls for FIRE in 2021:

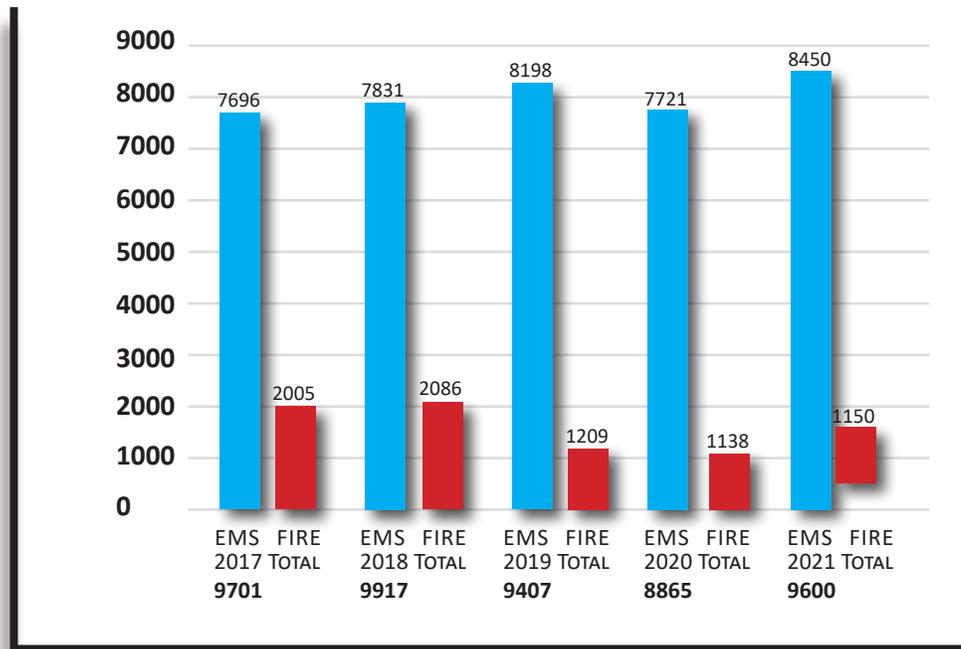
<u>Incident Type</u>	<u>Number of Calls</u>
Unintentional system/detector operation (no fire).....	193
Dispatched and cancelled en route	160
Combustible/flammable spills & leaks	98
HazMat release investigation w/no HazMat	95
System or detector malfunction.....	88
Unauthorized burning	85
Structure Fire.....	82
Electrical wiring/equipment problem	72
Wrong location, no emergency found.....	42
Public service assistance	30
Outside rubbish fire.....	27
Service call, other	24
Steam, other gas mistaken for smoke	22
Smoke, odor problem.....	19
Chemical release, reaction, or toxic condition	18
Malicious, mischievous false alarm	14
Natural vegetation fire	13
Mobile property (vehicle) fire	12
Extrication, rescue.....	11
False alarm and false call, other	11

2021 ESTIMATED FIRE LOSS

Estimated Property Loss Fires				
Structure Fires	Estimated Property Loss	Civilian Casualty	Civilian Death	Total Incident
Residential - Private Dwelling	\$793,393.00	6	0	50
Residential - Apartments	\$242,328.00	5	0	20
Residential - Other		0	0	1
Public Assembly	\$93,000.00	1	0	3
Schools & Colleges		0	0	2
Stores and Offices		0	0	2
Industry, Utility, Defense, Lab	\$5,000.00	0	0	3
Storage Structures	\$1,000.00	0	0	2
Other Structures	\$4,000.00	0	0	3
Total Fire Loss:	\$1,138,721.00			86

TOTAL INCIDENT PERSPECTIVE 2017-2021

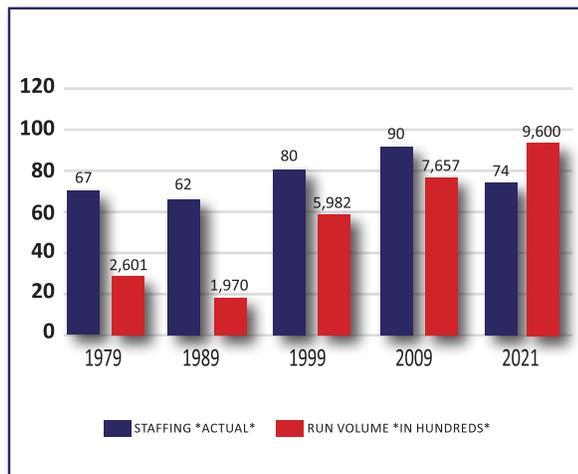
As it appears in this bar graph, it would seem that fire incidents were dramatically reduced in 2021. It is important to understand that in November of 2018, the fire department changed reporting software. Prior to November 2018 the department used separate software for EMS and Fire incidents. Now, we use one software program for all incidents. With the previous software, any incident, that required the response of at least one medic and one engine would create an incident for the engine and the medic separately. With the current software, there is only one incident number created.



HISTORICAL PERSPECTIVE 1979-2021

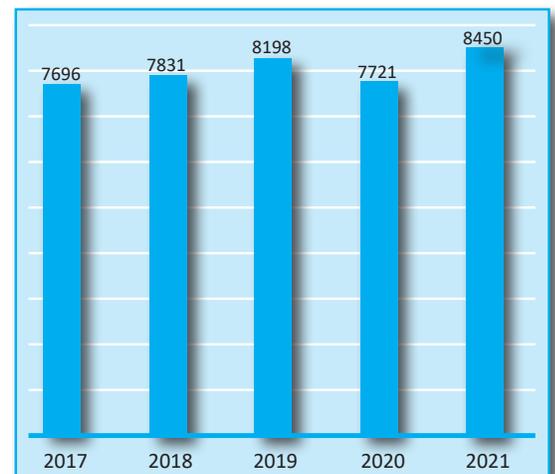
Lancaster Fire Department

STAFFING



EMS INCIDENT PERSPECTIVE 2017-2021

There has been an **9.79% INCREASE** IN MEDICAL INCIDENTS OVER PAST FIVE YEARS.



2021 MUTUAL AID REPORT In 2021, Lancaster Fire Department requested mutual aid from fire departments outside the City. In addition, these departments also requested assistance from Lancaster Fire Department. The chart below breaks it down by jurisdiction and Fire or EMS assistance.

Jurisdiction	Mutual Aid TO LFD		Mutual Aid FROM LFD	
	Fire	EMS	Fire	EMS
Amanda Twp.	3	0	2	0
Basil Joint Fire District	23	2	1	0
Berne Twp.	13	6	13	15
Bloom Twp.	12	2	1	2
Bremen-Rushcreek Twp.	0	1	1	4
Clearcreek Twp.	0	0	0	0
Greenfield Twp.	38	43	9	33
Hocking Twp.	18	61	1	15
Junction City & New Lexington	0	0	0	0
Pleasant Twp.	37	68	44	68
Richland Twp.	0	1	4	1
Thurston-Walnut Twp.	0	0	2	0
Violet Twp.	0	0	0	0
Total:	144	182	78	138
Grand Total:	326		216	



2021 MUTUAL AID

2021 INSPECTION INVESTIGATIONS

2021 FIRE INSPECTIONS	
Inspection Type	Amount
Annual Inspection - Basic	840
Annual Inspection - Alarm &/or Sprinkler	199
Inspection - Mobile Food Vendor	100
Annual Inspections - Vacant	74
Inspections - Other	52
Inspection - Foster Care/ Adoption	12
Inspection - School (K-12)	22
Inspection - Day-care	15
Inspection - Hydro/Flush Underground Fire Line	2
Church (No Permit)	18
Inspection - Complaint Follow-Up	4
Inspection: Fire Protection Only	13
Re-Inspections	737
TOTAL:	2,088

2021 FIRE INVESTIGATIONS	
Inspection Type	Amount
Structure Fire	23
Vehicle Fire	1
Other	5
TOTAL:	29

2021 PERMITS	Amount
Permit Inspection - Compressed Oxygen	1
Permit Inspection - Cryogenic Fluids	2
Permit Inspection - Cutting & Welding	7
Permit Inspection - Dry Cleaning	1
Permit Inspection - Flammable & Combustible	6
Permit Inspection - Fuel Dispensing	1
Permit Inspection - LP Gas	3
Permit Inspection - Lumber Yards	4
Permit Inspection - Places of Assembly	127
Permit Inspection - Repair Garages & Motor Fuel Dispensing	83
Permit Inspection - Rooftop Heliport	1
Permit Inspection - Spraying or Dipping	1
Permit Inspection - UST Repair Inspection	1
Permit Inspection - Waste Handling	3
TOTAL:	241

2021 DEPARTMENT TRAINING:

Monthly MEC Minute – EMS training with Medical Directors

- Non-Accidental Trauma
- Heat Illness
- CPAP
- Psych Meds
- Transport Meds
- Tubes & Lines

RIT

- After Action Reviews
- Documentation & QI Review
- EMT Skills Credentialing
- New Body Armor In-service
- Active Shooter
- Blue Card Incident Size-up
- Inspection/Prevention Review
- Blue Card Command
- MEC Core Competencies – CVA & HPCPR
- MEC Core Competencies – Trauma
- MEC Core Competencies – Patient Capacity Assessment
- Quarterly Airway
- Mayday/SCBA Confidence Course
- Foam Operations
- Preplans and Building Reviews
- Pump Operations
- Horizontal Standpipes
- Blue Card Scene Size-Up
- Grass Truck Pump Operations
- Driver Training
- Forcible Entry
- Blue Card Command Simulations
- Firefighter Self Rescue

Determining Fire Loss

- RIT/Mayday
- Blue Card Terminology & Critical Factors
- Blue Card Multi-Family Sims
- VES
- Basic Rope Rescue
- Cardiac Arrest
- Water Movement
- RTF Awareness
- 12-Lead
- Blunt Chest Trauma
- Geriatric Behavioral Emergencies
- Ohio Trauma Triage
- Pediatric Behavioral Emergencies (Autism)
- Ethics
- Ladder Operations



TOURS

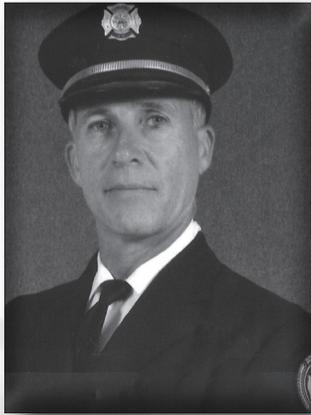
- South Central Power
- Eastpoint Apartments
- Lev's Pawn shop

2021 PUBLIC EDUCATION

DATE	EVENT TYPE	NAME OF EVENT	DESCRIPTION
09.28.2021	Other	Roxton Ravine HOA mtg.	E-2 gave a fire safety talk to the annual meeting of the Roxton Ravine HOA. Topics included cooking safety, electrical safety, heating safety and EMS considerations.
08.14.2021	Show and Tell	2021 Kids and Cops Day	Provided over 300 helmets to kids and gave tours of trucks
08.10.2021	Other Fire	Prevention talk for MRDD students	Spoke with class on the importance of having a working smoke detector, an exit plan, and calling 911 or getting help. We also did show and tell on EC-3
07.24.2021	Show and Tell	Festival Fair Day	Showed children the fire apparatus and talked about fire safety.
07.24.2021	Other	Cardiac Arrest Survivor	Award presented to a child that assisted in calling 911 for his grandmother. EMS presenting the award. Presentation took place during Festival Fair Day at the Fairfield County Fairgrounds
07.09.2021	Show and Tell	Show and tell on E-3 for 7 two-three year old preschoolers	Showed the children the equipment on EC-3 and handed out toy fire helmets and badges.
06.18.2021	Show and Tell	United Way Day of Action	T-1 and CV-1 participated in the United Way Day of Action. T-1 crew parked at the event and gave children tours of the apparatus and handed out fire helmets. The event was located in the 100 block of S. Broad Street.
06.10.2021	Show and Tell	2021 Safety Town	Fire safety demonstrations, smoke house, water station, truck show and tell. Total of 75 pre-kindergartners. Also distributed fire safety educational materials
05.28.2021	Other Lifeguards	Lancaster City Pools In Service for	E-3 and CV-1 attended the Lancaster City Pools In Service for their Life Guards. LFD personnel spoke to needs for EMS during a medical emergency at the pool. Procedures for getting the pt. out of the water, opening the gate and basic First Aid for c-spine injuries was discussed.
04.03.2021	Show and Tell	Easter Egg Hunt with Show and Tell of Emergency Vehicles	Helped start the event. Parked in an accessible location where children and participants of the event could see the trucks and equipment on trucks.
02.09.2021	Show and Tell	Birthday wish to see fire truck	E-2 drove to residence and did a quick show and tell of E-2 for 3 year old's birthday.
01.31.2021	Other	Birthday party drive by.	Drive by of birthday party for child.



2021 RETIREMENTS:



**FF/ Paramedic
Rusty Conrad
1994-2021**



**FF/ Inspector
Rodney Howdyshell
1992-2021**



**FF / Inspector
Gary Hatch
1991-2021**



2021 RETIREMENTS

2021 NEW HIRES



FFP GODY
HAMER



FFP KENDALL
LELAND



FFP JOSH ELLIS



FFP BEN
MATTHEWS



FFP STEPHEN
DIERCKS



FFP CAMERON
LOVE



FFPT LANDON
HINKLE



FFP COLE
SCHMUCKER



FFP JOHN DIBLE



FFP NICHOLAS
REED



FFPT LEVI
CAVANAUGH



FFPT TREVOR
HUBBLE



FFPT ALEC
CHESTER



FFP GARLIE
GOODCHILD



FFP NIC
HARTSOUGH





DONATIONS:

\$500 FROM THE CORVETTE ALLIANCE

EQUIPMENT RECEIVED FROM \$24,000 DONATION



DONATIONS

LANCASTER DESTINATION DOWNTOWN

