

Lawrence-Douglas County

Fire Medical

2022 Annual Report



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OUR MISSION

“We are committed to saving and protecting lives and property through service to our community.”



OUR VALUES

Professionalism

Respect

Integrity

Diversity

Excellence



LDCFM / DEPARTMENT OVERVIEW

BUDGET - \$30,517,000

Operating Budget: \$27,246,000
Capital: \$3,271,000.00

RESPONSE UNITS - 17

Fire Engines / Quints: 5
Ladder Truck: 1
Ambulances: 7
Command Vehicles: 1

PERSONNEL - 155

Sworn Members: 150
Civilian Members: 5

FIRE MEDICAL STATIONS

Fire Station / EMS Station: 5
EMS Station: 2

OPERATIONS

Shifts: 3 24-hour rotating shifts (X-Shift, Y-Shift, and Z-Shift)
Full Staffing: 47
Minimum Daily Staffing: 39

SERVICES OFFERED

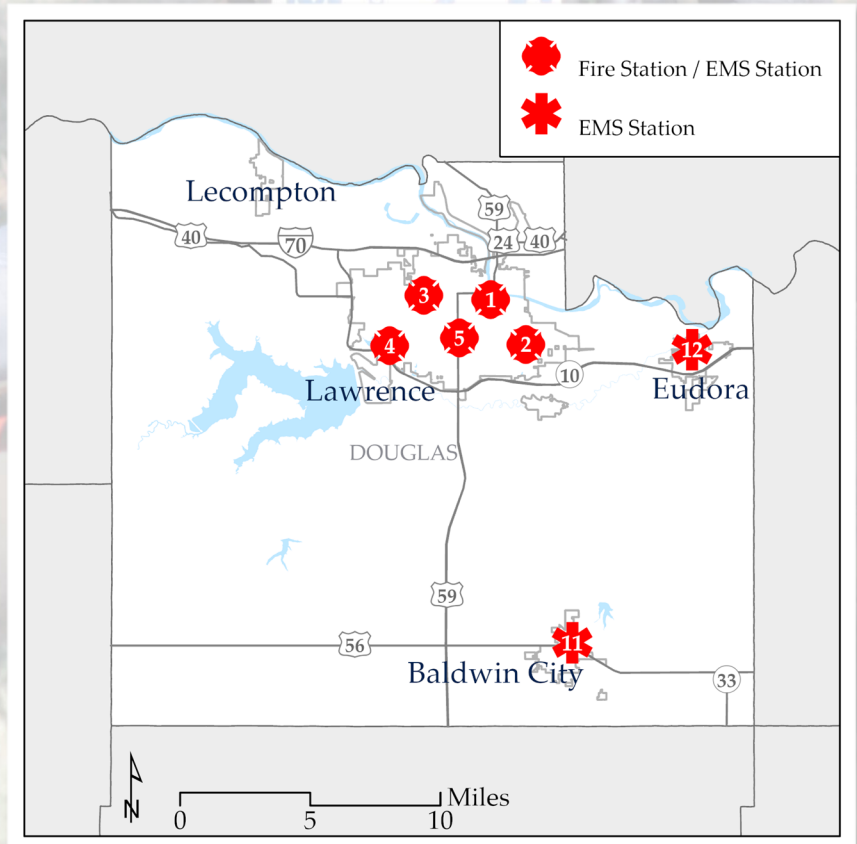
Fire Suppression (City of Lawrence / Grant Township)
Emergency Medical Services (Douglas County)
Technical Rescue
Hazardous Materials

AREA SERVED

City of Lawrence: 34.86 square miles
Douglas County: 475 square miles

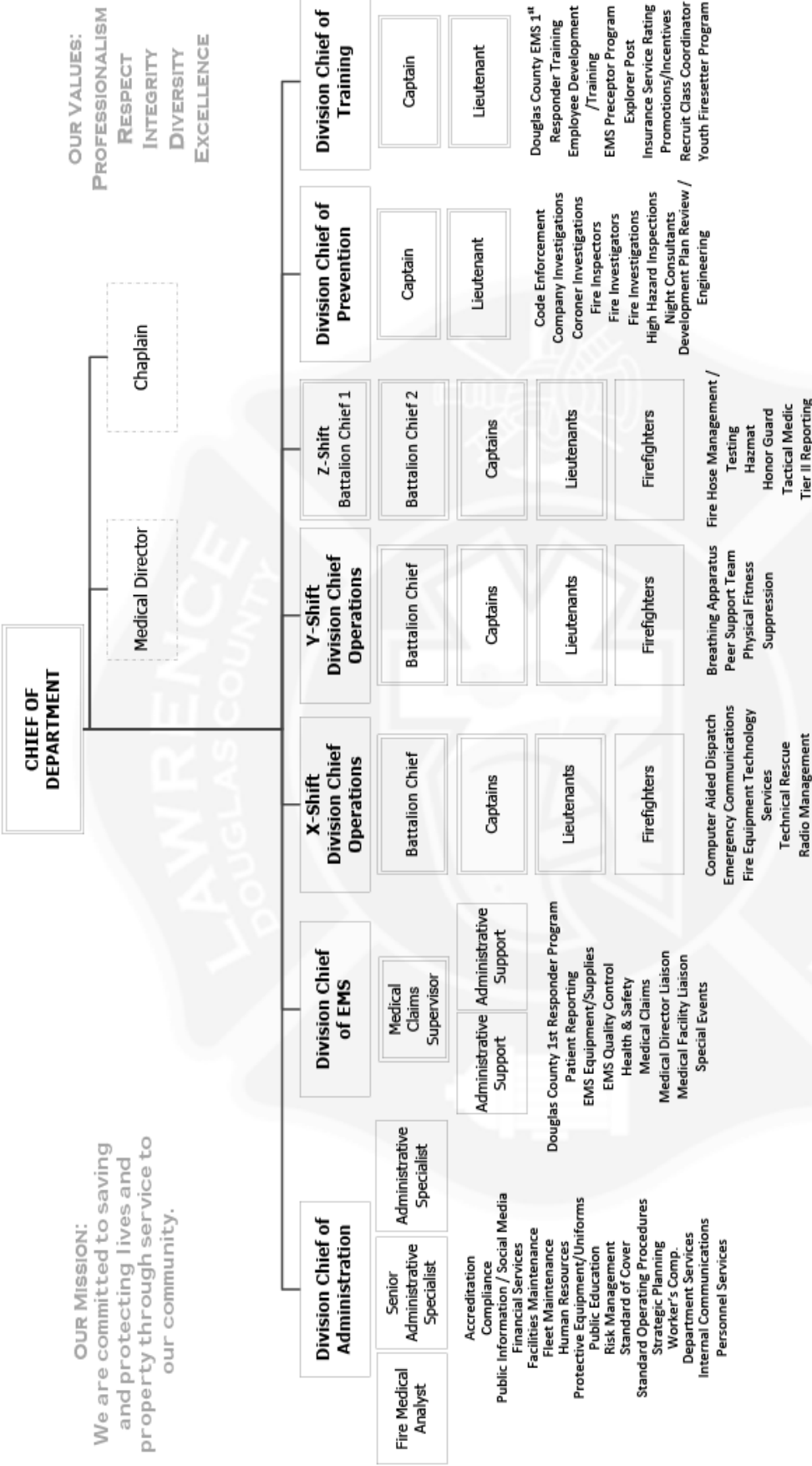
POPULATION SERVED

City of Lawrence: 110,942
Douglas County: 136,625



Lawrence-Douglas County Fire Medical

ORGANIZATIONAL CHART



CFAI Internationally Accredited Agency Since 2008
ISO Class 1 Community

LDCFM / FIRE MEDICAL STATION OVERVIEW



LDCFM / COMMUNITY SERVICES OFFERED

Lawrence-Douglas County Fire Medical offers a variety of services to community members! Please contact our Administration Office or visit our website to request these services / find out more information!

- ⇒ **Hands-Only CPR Training**
- ⇒ **Fire Extinguisher Training**
- ⇒ **Fire Investigators**
- ⇒ **Firefighter Visits**
- ⇒ **Fire Truck Visits**
- ⇒ **Fire Medical Station Tours**
- ⇒ **Explorer Post Program**
- ⇒ **Juvenile Fire Setter Intervention**
- ⇒ **Smoke Alarm Assistance**
- ⇒ **Fire Inspections**
- ⇒ **Community Ride-Alongs**
- ⇒ **Fire Drills**



Lawrence-Douglas County Fire Medical Administration Office

1911 Stewart Avenue
Lawrence, KS 66046

Phone: (785) 830-7000 | Fax: (785) 830-7090

Website: www.lawrenceks.org/fire-medical



FIRE CHIEF RICH LLEWELLYN

Chief Llewellyn joined Lawrence-Douglas County Fire Medical in 2022 after serving for several decades with various Washington state fire agencies. He began his fire service career with the Pullman Fire Services in 1996 after graduating from Washington State University with a Bachelor of Art in business administration. He was hired as a firefighter with the Spokane Valley Fire Department (SVFD) in 2000 and rose through the ranks to ultimately serve as the Division Chief of Emergency Medical Services. During his employment with the SVFD, he earned an Associate of Applied Science in advanced life support from Spokane Community College and a Master of Education in adult education from Eastern Washington University. In 2018, Chief Llewellyn was hired by the Everett Fire Department as the Assistant Chief of Administration. While at Everett, he completed a Master of Liberal Arts from Harvard University's Extension School.

Chief Llewellyn has served in a wide variety of positions and roles throughout his career, including paramedic, company officer, technical rescue operator, safety and training officer, and battalion chief.



Chief Llewellyn being sworn in as the Fire Chief by the City of Lawrence Deputy City Clerk, Aliza Bidingler.

His experience in incident management includes assignment as a safety officer on a Type 3 incident management team. He maintains credentials as a Chief Fire Officer and Chief EMS Officer through the Commission on Professional Credentialing. Chief Llewellyn is a 2019 graduate of the National Fire Academy's Executive Fire Officer Program where his research on community opioid usage patterns was recognized with a 2018 Outstanding Research Award.

Chief Llewellyn is excited to serve alongside the women and men of Lawrence-Douglas County Fire Medical as we focus on carrying out our promise to the Lawrence-Douglas County community. This promise is captured in our mission statement which reads that, "We are committed to saving and protecting lives and property through service to our community."



Through 2022, the 138 members of the International Association of Firefighter (IAFF) Local 1596 represented various ranks and levels of seniority throughout LDCFM. Through unified effort, the members continued their partnership with the City and LDCFM management in the pursuit of a shared vision of a more progressive and supportive fire medical department.

Prioritizing Mental Health

Going into the year, IAFF Local 1596 worked with LDCFM and City of Lawrence Management to extend employee health care to cover 100% of treatment cost for in-network, outpatient, and inpatient treatment facilities. This signifies a positive step in the goal of eliminating the stigma firefighters may face when seeking help for PTSD and other behavioral health issues many face during their career. Additionally, in June of 2022 the members worked to establish the Health and Wellness Fund through the Kansas State Council of Firefighters. This fund, financed independently by IAFF members across Kansas, provides reimbursement for any costs associated with seeking treatment through the IAFF Center of Excellence, including indirect expenses. Members can receive support to pay for hardships such as travel, lost wages, child care, etc., when they have been admitted to the Center of Excellence. If paired together, these two initiatives make the cost of seeking treatment for severe mental health diagnosis effectively zero, through co-operation, IAFF Local 1596 and LDCFM spent 2022 removing the financial hurdle most first responders in the United States face when seeking mental and behavioral health treatment.



Recognizing that many mental health struggles encountered by first responders can be prevented with early intervention from their peers, the IAFF also spent 2022 investing in the Peer Support team bringing the team strength to a total of 13 members. Working with other partners in the area such as the First Responder Chaplain Program, the West Coast Trauma Retreat, and FRST Midwest, IAFF Local 1596 and LDCFM committed time and resources to train team members to support their peers through hardships and act as liaisons in receiving definitive treatment.

Leadership Conference

Time was spent pursuing education as well. In January 2022, IAFF Local 1596 sent a team of members to convene with other IAFF leaders Across the country. During the IAFF Affiliate Leadership Training Summit and Human Relations Conference in Lake Buena Vista, FL, and the 56th IAFF Convention in Ottawa, Canada, Local 1596 members spent time with their peers exploring the latest obstacles affecting the health, safety, and efficient operations of fire and medical departments across the United States and Canada.



Operation Warmth

The members also continued their dedication to give back to the community they serve. In 2022, just as in the last 4 years, the member's charitable foundation, Lawrence Professional Firefighters Charitable Foundation, partnered with Operation Warmth and provided over 50 coats to children in need Lawrence.

With the support of community members, the Charitable Foundations has purchased and donated over \$10,000 in coats for area children since 2018.





Commission on Fire Accreditation International

- LDCFM first achieved accreditation status in 2008, and successfully achieved renewal in 2013, 2018, and 2023!
- LDCFM is one of nine agencies in Kansas that have achieved Accredited status, and is one of more than 300 agencies to achieve Internationally Accredited Agency status with the CFAI and the Center for Public Safety Excellence (CPSE).

In 2022, Lawrence-Douglas County Fire Medical (LDCFM) began their fourth accreditation cycle, having first achieved accreditation in 2008 through the Commission on Fire Accreditation International (CFAI). LDCFM successfully achieved accreditation renewal (this process takes place every 5 years) in 2013, and again in 2018. This process includes the creation / completion of several self-analytic documents such as the Community Risk Assessments / Standards of Cover and the Fire and Emergency Services Self Assessment Manual.



LDCFM Accreditation Team receiving the department's 4th Accredited Agency Status plaque.

Accredited agencies are often described as being community-focused, data-driven, outcome-focused, strategic-minded, well organized, properly equipped, and properly staffed and trained.

- ⇒ Provides greater community alignment.
- ⇒ Encourages quality improvement.
- ⇒ Facilitates input from and builds positive relationships with labor.
- ⇒ Identifies areas of strengths and weaknesses.
- ⇒ Allows for the establishment of a plan for improvement.
- ⇒ Provides data supported decision-making (major desire from City and County Management).

The Accreditation Model has 11 categories that each department is required to self-reflect on and assess. These include:

1. Governance & Administration
2. Assessment & Planning
3. Goals & Objectives
4. Financial Resources
5. Operations Programs (Community Risk Reduction, Public Education, Fire Investigation, Domestic Preparedness, Fire Suppression, EMS, Technical Rescue, HazMat, and Tactical Medic)
6. Physical Resources
7. Human Resources
8. Training & Competency
9. Essential Resources (Water Supply, Communications Systems, Administrative Support & Office Services, and Information Technology)
10. External System Relationships
11. Health & Safety



LDCFM / ADMINISTRATIVE DIVISION

ADMINISTRATIVE SERVICES

The Administrative Division is managed by the division chief of administration and supported by three civilian administrative personnel. These members provide support to the Fire Chief, Fire Medical Executive Staff, and the other divisions within the department. These members also act as liaisons with other City of Lawrence and Douglas County departments.

FINANCE

Develops departing yearly operating budget as well as the Capital Improvement Project (CIP) budget in collaboration with City Finance. Monitors department budget spending and manages accounts payable related services.

HUMAN RESOURCES AND PAYROLL

As liaisons to City Human Resources and Payroll, administrative members assist with employee relations, providing accurate payroll / timekeeping, as well as annual employee appraisals, promotional procession management, and worker's compensation.

DATA DRIVEN ANALYTICS AND INITIATIVES

Members conduct a variety of organizational and operational studies and analyses and research while also analyzing various organizational operations for efficient and effective services.

ACCREDITATION

The accreditation manager and team coordinates the accreditation processes for the department. This process is integrated into the daily operations and culture and is the foundation by which we continue to provide quality services to the citizens of Lawrence and Douglas County. This process focuses on self-assessment and continuous improvement of services offered to the community.

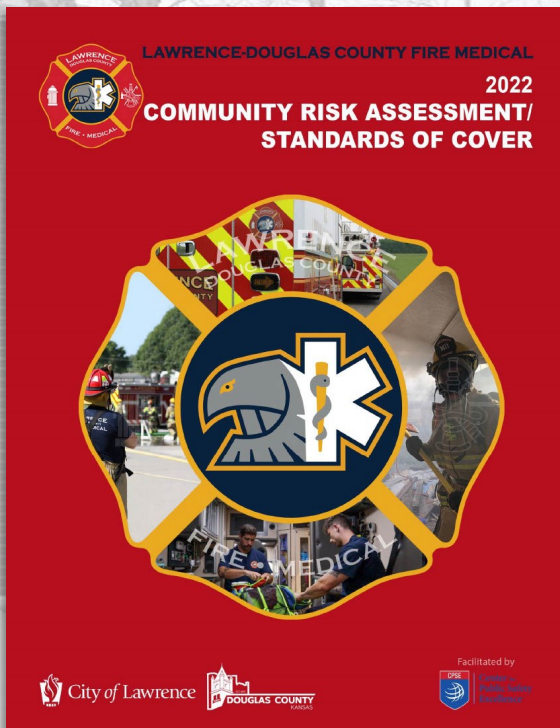


NEW ADMINISTRATIVE SPECIALIST - SAMANTHA LEDERER

LDCFM was very excited to welcome Samantha to the Administrative Division in mid-2022. The assistance she has been able to provide has been invaluable to the department and it's mission!

Samantha is originally from Newton, KS, but has been happy to call Lawrence home for the past 17 years. She graduated from the University of Kansas with a degree in Community Health.

In her free time, she enjoys making tie-dye, going to concerts, and keeping dozen of houseplants from the brink of death.



Minutes Matter: **A Cardiac Arrest Survivor Event**

After Carl Ricketts collapsed on a golf course, fellow golfers performed quickly leapt into action by calling 911 and performing hands-only CPR. LKPD arrived on scene and performed manual CPR on Carl until LDCFM responders arrived. They then performed mechanical CPR, delivered life saving medications, and an advanced airway. Afterwards, Carl was transported to the hospital and underwent surgery. Because of the quick actions of his fellow golfers, Carl survived and recovered from this heart attack.

Bystander CPR can **TRIPLE** the chance of survival.



Lawrence-Douglas County Fire Medical, Lawrence Kansas Police Department, stand along side Carl, his family, and the men who performed bystander-CPR.

Hometown Hero Award: **Pediatric Drowning Survivor**

LDCFM had the honor of holding a press conference to commemorate a Lawrence father, Tom, and his 12-year-old son, Maddox. The pair helped rescue a drowning 4-year-old autistic boy, Xavier, from a pool. Both Tom and Maddox were presented with Hometown Hero certificates.

During this conference, Lieutenant Jeff Krall spoke to the importance of taking swimming lessons and other drowning prevention methods.



(L to R) Lieutenant Mathis, Captain Simon, Battalion Chief Fleeup, Alexis, Xavier, Tom, Maddox, and Division Chief Joles.

Critical Care Meets Critical Technology

LDCFM implemented portable ventilators and upgraded 17 cardiac monitors (purchased 3 additional) to the ZOLL X-Series Advanced.

ZOLL X-Series Advanced Monitor/Defibrillator



ZOLL AutoPulse



ZOLL Z-Vent



LDCFM / OPERATIONS DIVISION



OPERATIONS STAFFING, STATIONS, APPARATUS, AND EQUIPMENT

LDCFM operates under three 24-hour rotating shifts (X-Shift, Y-Shift, and Z-Shift), each consisting of 2 chief officers, 5 captains, 8 lieutenants, and 29 firefighters. Each 24-hour shift consists of emergency staff and equipment dispersed throughout the city of Lawrence among five fire medical stations and one station located in Baldwin City (Fire Medical Station 11). The department also staffs one station in the city of Eudora (Fire Medical Station 12).

Each of the five stations in Lawrence is comprised of one primary fire apparatus with minimum staffing of one officer, one engineer, and two firefighters. Each of the five stations in Lawrence also houses one medic unit staffed with one officer and one firefighter/paramedic. Fire Medical Station 5 houses an additional rescue unit with one officer, one engineer, and one firefighter. The medic units at Stations 11 and 12 are staffed with one officer and one firefighter/paramedic. The minimum staffing for each shift is 38 personnel, and the maximum scheduled staffing is 43 personnel.

FIRE SUPPRESSION

The department provides a broad range of responses to structure fires involving single-family dwellings, multifamily dwellings, and high-rise commercial and industrial occupancies. Additionally, high-hazard structures such as institutional facilities, schools, nursing homes, assisted living facilities, and congregate housing (sororities/fraternities).

EMERGENCY MEDICAL SERVICES

The department provides first responder medical care at the basic life support (BLS) and advanced life support (ALS) service levels. The department provides seven primary and five secondary ALS ambulances. All primary fire apparatus and the rescue truck are equipped with a full complement of ALS equipment, including cardiac monitors, advanced respiratory equipment, as well as cardiac medications, and intravenous therapy supplies.

TECHNICAL RESCUE

The department provides firefighters trained in various aspects of technical rescue to respond to emergencies for confined space, vehicle extrication, trench rescue, structural collapse, high-angle rope rescue, and water/ice rescue.

HAZARDOUS MATERIALS

The department is staffed and equipped to respond to county-wide hazardous materials (hazmat) incidents. LDCFM is responsible for offensive and defensive operations; however, the department does not collect or dispose of any hazardous materials.

WILDLAND FIRE SERVICES

The department provides wildland/grass fire suppression services within the city and Grant Township while also providing mutual aid to surrounding areas. This program is developing within the department as the need to mitigate these incidents within the covered area increases each year.

Camp Courage 2022

LDCFM women joined forces with Topeka Fire Department to facilitate Camp Courage!

Camp Courage is a great opportunity for young women to take their first step, breaking through barriers, to serve the community in the fire medical services.

During the camp, forcible entry, search and rescue, hose-line deployment, repelling, and hands-only CPR are just a few of the things that the group learns about and practices!



iSimulate Training



The iSimulate training package and equipment which was purchased by LDCFM in 2022 consists of a simulated cardiac monitor, a control pad, and a manikin. Trainers can adjust all readings a crew sees on the cardiac monitor while they assess a simulated patient. This includes heart rate, blood pressure, blood oxygen levels, respiratory rate, exhaled carbon dioxide, ECG readings, and many other functions. The simulated monitor works just like the monitors our crews use every day, and the trainer can change readings to take crews through a pre-set scenario, or adjust them on the fly in response to the treatments crews provide to the patient.

The result is a highly successful training environment that engages our members at every level of medical training for the full duration of the class, and allows our providers to practice their critical thinking skills to develop a differential diagnosis for patients with complex medical conditions. This type of training allows better recall during high stress incidents, especially for medical emergencies which are low frequency events. The end result is much higher quality emergency services provided to the community.

High Rise Training

In partnership with University of Kansas, LDCFM built a simulated apartment building hallway in a parking garage on KU campus. Crews went through three different scenarios that varied the location and amount of fire, and the presence of victims. In each scenario, the crews would have to assess the situation, develop an incident action plan, communicate it to the other crews arriving on scene, correctly deploy high rise hose packs, establish water supply through the standpipes, and ensure all fire was out and all floors were clear of victims. High rise fires are low frequency but high hazard events, and this training was a significant improvement on past training as crews were able to actually hook in to the standpipes and flow water.



RIT (Rapid Intervention Team) / Mayday Training



A “Mayday” is when a firefighter is lost, trapped, or injured in a structure fire. At each fire, a Rapid Intervention Team (RIT) is a fire crew that is standing by to immediately enter the structure fire in event of a Mayday. In the past, the department did Mayday training annually, but this was primarily done through single-company evolutions practicing the hands-on skills for removing a downed firefighter. In 2022, LDCFM simulated a “Mayday” in the middle of a full-scale, game-speed structure fire evolutions. Incident commanders and crews had to not only effectively rescue the downed firefighter, but also continue to extinguish the fire and complete a search of the structure for any other victims. This much more closely corresponded to how a real-world Mayday event would likely go, taught many valuable lessons, and better prepared our members for a day we all hope never comes.

LDCFM / PREVENTION DIVISION

In 2022, LDCFM worked diligently towards Community Risk Reduction (CRR) efforts for the City of Lawrence. These included life safety inspections throughout the city, code compliance inspections for new occupancies through permitting process, plan reviews, fire investigations, pre-planning, and public education opportunities related to all services.

LDCFM implemented a new module in ESO, the department's record management system, Properties and Inspections. This created an opportunity for improved customer service with our annual life safety inspections and provided our department with the ability to capture valuable pre-incident planning information of facilities throughout our community.

2022 CRR Breakdown:

Annual Inspections: 3,217

Code Compliance Permit Inspections: 636

Plan Reviews: 658

2022 Total Number of Fires: 304

Building Fires: 82

Fires in Structures other than Buildings: 8

Motor Vehicles: 35

Brush / Grass / Natural Vegetation: 74

Cooking Fires confined to Container: 15

Dumpster / Trash / Rubbish: 65

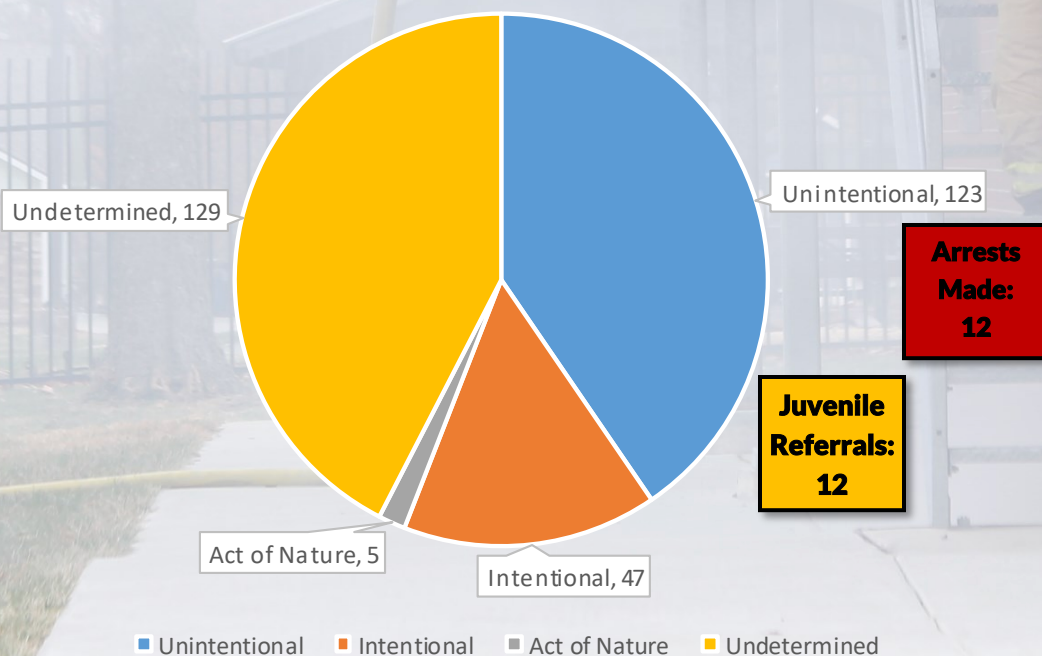
Fire, Other: 25

2022 Fire Investigation Cases

Fire Investigators: 117

Incident Commander Investigation: 187

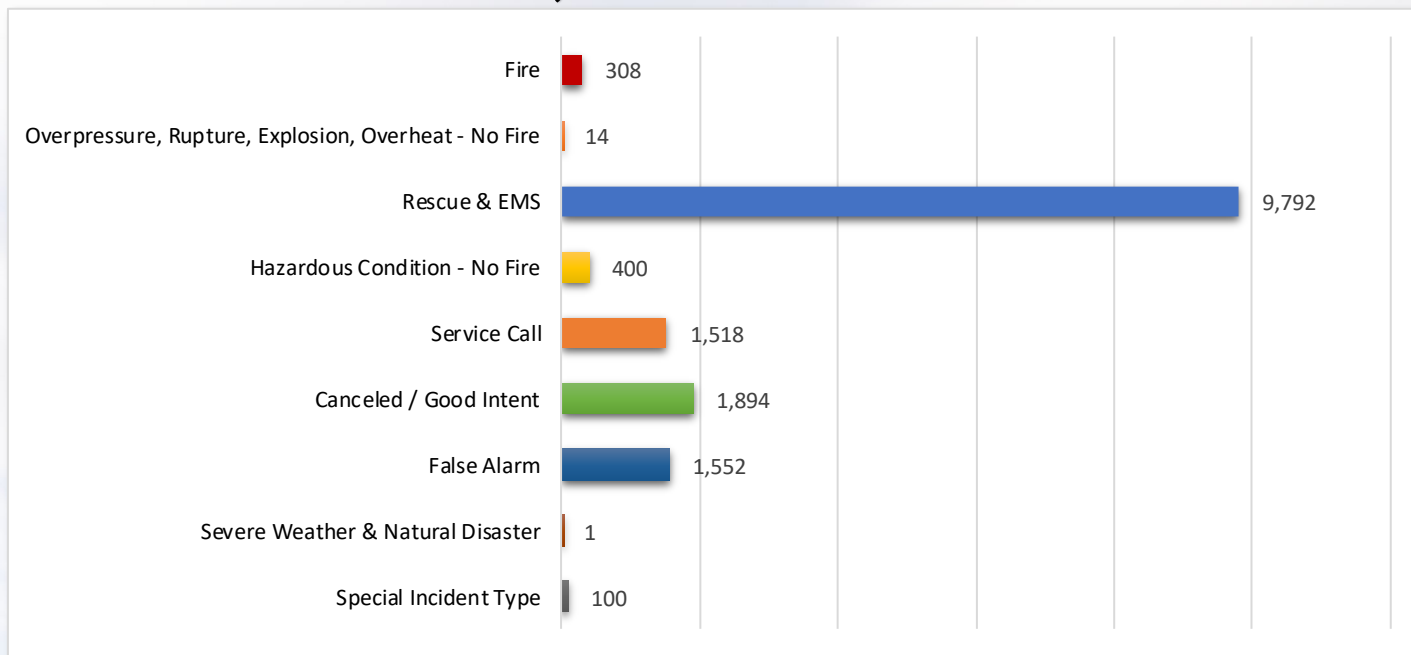
2022 Fire Causes Breakdown:





LDCFM / 2022 INCIDENT STATISTICS

15,579 Total Incidents



Responses by Shift

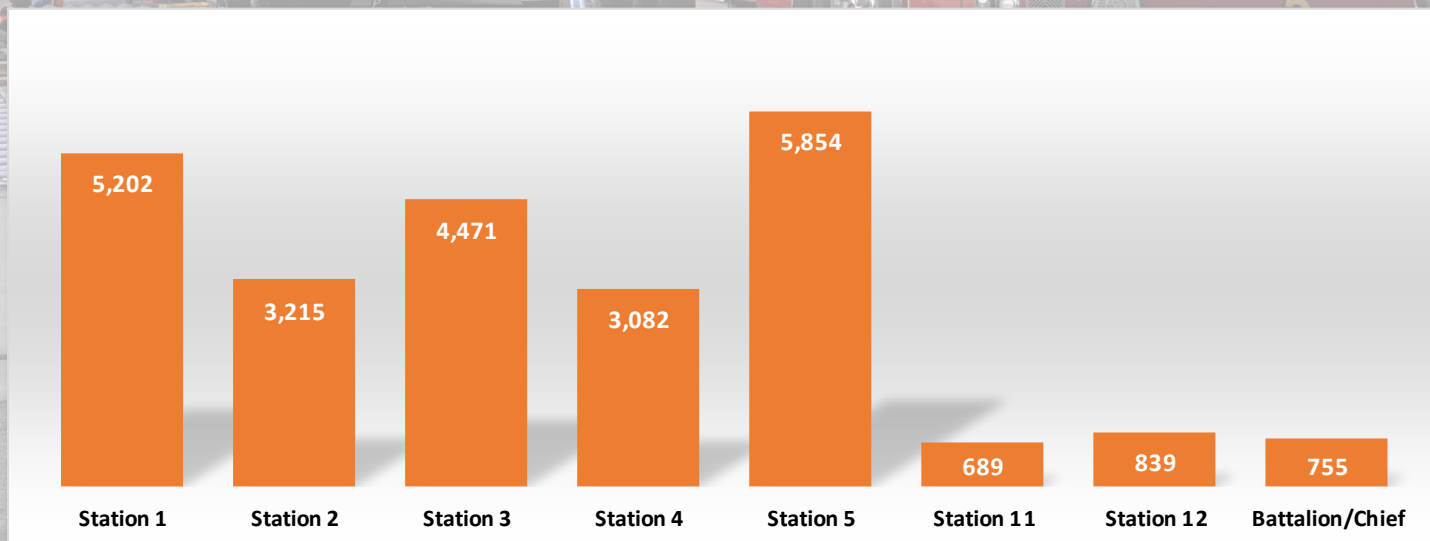
Z-Shift: 5,318

X-Shift: 5,237

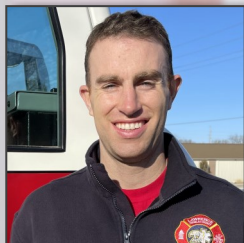
Admin: 4

Y-Shift: 5,020

Responses by Station



LDCFM / RECRUIT CLASS #27



Alan Baur



Matthew Evans



Elliot Johnson



Grayson Johnson



Zoe Mays



Nathan Palmer



Brian Rethman



LDCFM / RECRUIT CLASS #28



Blaze Bigos



Garrett Bull



Plan Ekpo



Tobias Groene



Bradlee Loghry



Stephen Luancing



Zachary Morgan



Sergio Sanchez



Savannah Shiner



Matthew Torneden





LDCFM / NEW FIRE TRUCKS

LDCFM received two new fire trucks in 2022. Engine 5 was placed in service during the summer, and Ladder 5 in mid-December. Before each truck was placed into service, department members, their families, and community members were invited to a "Pushing-In Ceremony." This traditional fire ceremony dates back hundreds of years. Horses will not walk backward when they are under a load, so when a new steamer was delivered to a firehouse, the assigned members would have to push it into the firehouse.



Engine 5 Pushing-In Ceremony being performed by the crew that designed the truck



Ladder 5 (a toolbox on wheels) and all the equipment contained on the truck

LDCFM members trained for several months on Ladder 5 before placing this truck into service. As it is the first of its kind with the department, members wanted to ensure they were full. Ladder 5, which is a tiller aerial fire truck, is a versatile apparatus that is capable of making sharp turns, navigating narrow streets, and maneuvering in tight places. This truck is operated by driver in the front cab, but there is a secondary driver located in the rear cab that is in charge of the rear axle.



Ladder 5 in front of David Booth Kansas Memorial Stadium (University of Kansas)

LDCFM / PROMOTIONS

Recruit to Full-Time Firefighter

Blaze Bigos
Garrett Bull
Plan Ekpo
Tobias Groene
Zachary Morgan
Sergio Sanchez
Savannah Shiner
Bradlee Loghry
Matthew Torneden
Alan Baur
Matthew Evans
Elliot Johnson
Grayson Johnson
Zoey Mays
Nathan Palmer
Brian Rethman

Firefighter to Paramedic

Alisha Brown
Michael Mathews

Firefighter to Engineer

Baylee Brewer
Jacob Cruse
Andrew Krzanowsky
Michael Mathews
Thomas Mueller
Daniel Franke
Patrick Schneider

Engineer to Lieutenant

Eric Lynch
William Thomas
Riley Spencer
Dustin Deathe

Incentives Awarded

Michael Mathews - Acting Officer
TJ Hipsher - Acting Officer
Kyle Evans - Acting Officer
Zach Taylor - Acting Officer
Michael Mathews - Fire Investigator
Andrew Denning - Hazmat Monitor Tech
Brent Luedeke - Night Consultant



Firefighter Cruse promoted to Engineer



Engineer Lynch promoted to Lieutenant



Firefighter Brewer promoted to Engineer

Graduations

Captain Ryan Hornberger — University of Kansas Certified Public Manager Program (CPM)

Acknowledgements of Service

Lieutenant Michael Fulkerson — 25 Years

Division Chief Dennis Leslie — 28 Years

Division Chief Thomas Fagan — 5 Years

Engineer Clayton Seals— 5 Years

Firefighter Connor Shuck — 4 Years

Firefighter Clinton Forbes — 3 Years

Engineer Jesse Ens — 17 Years

Ellis “Malachi” Daniels— 1 Year

Engineer Andrew Booth — 27 Years

Lieutenant William Hallagin — 21 Years

Medical Billing Technician Lori Hanson — 28 Years

Lieutenant Miguel Armenta — 25 Years

Lieutenant Paul Schneider — 25 Years

Firefighter Ligor Bauguil— 1 Year

20-Year Recognitions

(pictured below as recruits)

Captain Aaron Flory

Captain Jeffrey Holland

Lieutenant Russell Prothe

Lieutenant Jason Love

Lieutenant Kevin Hodson

Class of 2002



Lawrence-Douglas County Fire Medical Administration

1911 Stewart Avenue

Lawrence, KS 66046

Emergency: 911

Non-Emergency: (785) 832-7509

LDCFM Administration Phone: (785) 830-7000

lawrenceks.org/fire-medical

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