

Lawrence-Douglas County Fire Medical

Annual Report

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1911 Stewart Avenue Lawrence, Kansas 66047 785.830.7000 Lawrenceks.org/fire-medical

Social Media: Facebook.com/LawrenceKSFireMedical















Department Overview

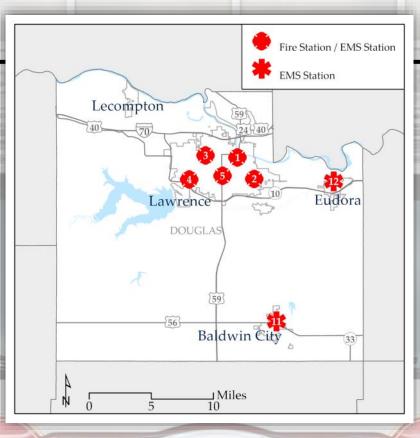
People

150

Uniformed Sworn
Members

6

Civilian Personnel



Resources

5

Fire Apparatus

1

Rescue Apparatus

7

Ambulances

4

Water Rescue Boats

LDCFM currently serves a large geographical area of 475 square miles and 134,917 people (based on planning projections). The City of Lawrence currently has a total area of 34.85 square miles. LDCFM is composed of 7 in-service ambulances and 6 in-service fire apparatus 24/7/365. Staffing these units, the department has 39 responders daily. LDCFM provides EMS coverage to the county (475 square miles). These resources provide the City of Lawrence coverage for Fire, EMS, Hazardous Materials, and Technical Rescue. The department is comprised of 5 Fire/EMS stations located in the City of Lawrence and 2 EMS stations located in Baldwin City (Station 11) and the City of Eudora (Station 12).

Professionalism

Respect

Integrity

Diversity

Excellence



"Committed to Saving and Protecting Lives and Property."

Station Information

Administration

1911 Stewart Ave. Lawrence, KS 66046 (785) 830-7000

Station No. 4

2121 Wakarusa Dr. Lawrence, KS 66047 (785) 832-7640

Station No. 1

746 Kentucky St. Lawrence, KS 66044 (785) 832-7610

Station No. 5

1911 Stewart Ave. Lawrence, KS 66046 (785) 830-7050

Training Center

1941 Haskell Ave. Lawrence, KS 66046 (785) 832-7623

Station No. 2

2128 Harper St. Lawrence, KS 66046 (785) 832-7620

Station No. 11

212 Kibbee Baldwin City, KS 66006 (785) 594-3152

Investigation Center

1839 Massachusetts St. Lawrence, KS 66044 (785) 832-7755

Station No. 3

3708 W. 6th St. Lawrence, KS 66049 (785) 832-7630

Station No. 12

City of Eudora Public Safety Building 930 Main St. Eudora, KS 66025 (785) 542-3653

Station No. 3



Station No. 1



Station No. 2



Station No. 12





Station No. 4



Station No. 5





The Continuous Improvement Model

Lawrence-Douglas County Fire Medical remains on target with its accreditation commitments to the Commission on Fire Accreditation International. In March 2013, the department was unanimously awarded Re-accredited Agency Status by the Commission on Fire Accreditation International (CFAI). This provides the department with accredited status through 2020. LDCFM is one of only 284 fire



departments worldwide to obtain CFAI Accredited Status. The department submits an annual compliance report every February and continues to work on re-accreditation. The accreditation process was 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.

The department strives to achieve continuous organizational improvement through implementation of improvement initiatives and opportunities for further enhancements. Currently, the department is operating under the goals and objectives outlined in the 2016-2021 Strategic Plan. The standard of cover document defines the level of emergency response resources and deployment strategies that City of Lawrence and Douglas County leaders, department administration and members commit to provide, at a minimum, to all community members. The department is committed to the CFAI model and will continue to work toward those goals.

LDCFM is...

1 of 284 Accredited Agencies

1 of 101 Accredited Agencies with an ISO 1 rating

Accredited Agencies protect 11% of the U.S. population.

| |

LDCFM goes International with the International Center for Public Safety Excellence Conference 2020

Division Chief of Administration, Thomas Fagan and Fire Medical Data Analyst, McKenzi Ezell presented on the Continuous Improvement System.

Chief Fire Officer Designation

Coffey, Shaun Fagan, Thomas Green, Doug

Fire Officer Designation

Barnes, Earl Crain, Brendon Dennis, Benjamin Gutsch, Gary Holloman, Brandon Morgan, Robert Morrow, Christopher



Incident Breakdown

Total Incidents: 12,659

Rescue / EMS: **8,624**

False Alarm: 1,173

Good Intent: 1,101

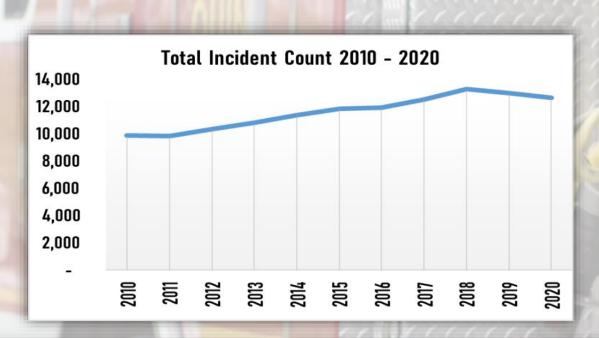
Service Call: 1,026

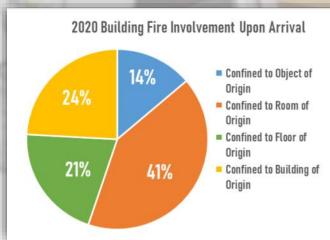
HazMat: 255

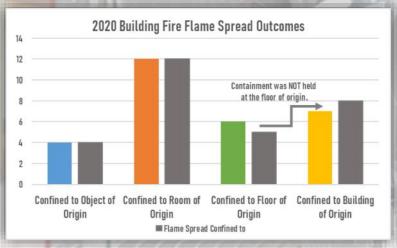
Fire: 242

Other: 238

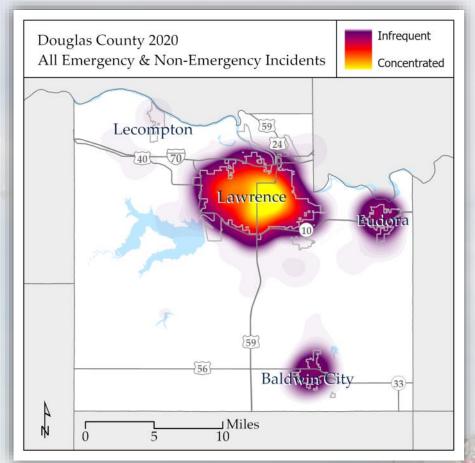








Incident Demand Maps

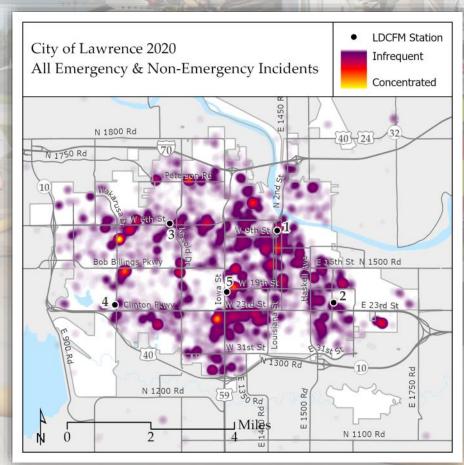


Incident Categories:

Emergency Medical Services
Fire
Technical Rescue
Hazardous Materials

Incidents have been plotted on the map to show concentration and the dispersal of incidents throughout Douglas County. There are concentrated areas, but calls do occur in distributed areas of the community.

Heat maps can be utilized to identify hot spots, or areas of high concentration.



Emergency Medical Services

The year 2020 (and beyond) brought forth many unprecedented challenges which forced change and adaptability for not only our immediate community but our pre-hospital medical responders. Nearly every week of 2020 brought new mandates and changes by Federal, State and Local oversight, continually leading to significant shifting of gears in deployment models in EMS care. EMS overcome incredible operational, physical and emotional challenges, while serving on the front lines of our healthcare system, and adapting to changes to testing, education, risk management, transport protocols and care delivery. LDCFM personnel were resilient in finding new modes of training and techniques to deliver outstanding care to our citizens during a pandemic. LDCFM crews stayed vigilant in maintaining a safe system to deliver and transport patient with enhanced disinfecting measures. And although the pandemic overshadowed most everything LDCFM does, EMS certifications, such as EMT, AEMT, and Paramedic, remained current for all personnel, which was difficult during modified educational offerings. Many additions to the EMS System created by the pandemic will stay in place going forward to enhance delivery of care.



Advanced Cardiac Resuscitation

The resuscitation techniques and efforts performed by LDCFM members during sudden cardiac arrest (SCA) incidents are considered next-level. Challenging norms and pushing new training initiatives has produced tangible and positive outcomes amongst local cardiac arrest victims within Douglas County. Hyper-focused delivery of care, driven by capnography (EtCO2) values assist in navigation and achievement of return of spontaneous circulation (ROSC) leading to one of the highest survivability rates in the country.

LDCFM Average SCA Survivability

National Average SCA Survivability http://www.ncbi.nlm.nih.gov/books/NBK305685/

5.5%

Data-Driven Emergency Medical Services

LDCFM's Emergency Medical Services division participated in the EMS Resuscitation Summit. Focusing on the topic "Why Data Matters: The Power of Data Driven Change", Division Chief of EMS, Kevin Joles discussed how LDCFM uses data to enhance the QI/QA program.







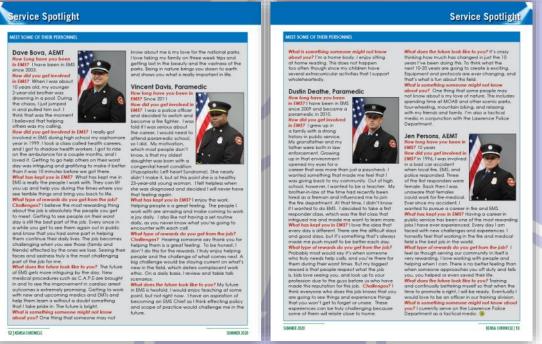


wywwww.

KEMSA Magazine Showcase

Kansas Emergency Medical Services Association (KEMSA) publishes the KEMSA Chronical magazine, seasonally. LDCFM was showcased as the Service Spotlight department in the Summer 2020 edition. The article was limited to only a few of our outstanding personnel as we would have welcomed the opportunity to showcase all of our members! The article highlights the department's work with the Cardiac Arrest Protocol for Excellence (CAPE) and it's relation to increasing the return of spontaneous circulation (ROSC) and cardiac arrest survivability in the community.





Welcome, Recruit Class #25

Graduates

Brown, Alisha

Cole, Rodney Jr.

Cox, Shad

Foulk, Jesse

Goodwin, Sam

Heinen, Nathen

Nehl, Dakota

Parker, Nolan

Ploeger, Matt

Schmidt, Crosbi

Shrewsbury, Jessica

Shelton, Trevor

Solis-Perez, Gerson













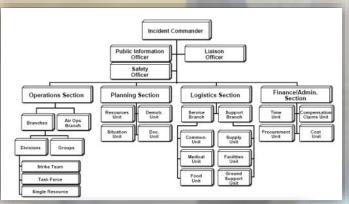




COVID-19 Response

Incident Command System

The City of Lawrence and Douglas County both stood up Incident Command Systems to combat the challenges that were associated with COVID-19. Many members of LDCFM played key roles within the systems. The some of the objectives for the system included:





- Provide for the safety, health, welfare, security of city employees and maintain an adequate workforce during current operational period.
- Provide for the safety, health, welfare, and security of the public by ensuring the continuation of critical city services during the current operational period.
- Restore, control and maintain access to vital infrastructure and utilities provided by the city during the current operational period.
- Ensure compliance with the Agency Administrators priorities through effective cost containment based upon political considerations and other limitations/expectations.
- Exhibit compassion and empathy through leadership throughout the duration of this response by regularly checking in with staff (including those working remotely) to ensure they have supports they need
- Begin formulating thoughts on possible plans for long term recovery related to personnel, equipment, operations and budget.
- Ensure federal public assistance and other grant opportunities are identified and pursued.

LDCFM's Response to COVID-19

Through the State of Kansas CARES Act Funding, Lawrence-Douglas County Fire Medical was able to procure the following supplies for COVID-19 response:

Personal Protective Equipment

N95 Masks: 1,995

N95 Mask Fit Testing Kits: 2

KN95 Masks: 10,000 Face Masks: 10,000

Disposable Gowns: 2,000

Re-Usable / Washable Gowns: 1,500

Gloves: 92,000

Safety Glasses: 750 Pairs

Powered Air Purifying Respirators (PAPR): 30

Ventilators: 8

EMS Cot Shields: 12

Decontamination Sprayers: 1

UV Decontamination Cleaning Systems: 2



Training

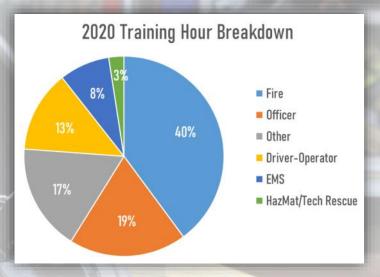




Some of the highlighted training that took place in 2020 included Fire Officer I, Fire Instructor I, and Fire Inspector I, all University of Kansas Fire & Rescue Training Institute classes that were delivered via video conferencing, some of those classes were delivered for the first time via video conferencing. An officer academy was delivered to prepare Engineers for taking on the role of the Acting Officer. Once the class was completed, an assessment center was provided and new Acting Officers were identified.

The Training Division also assisted with the creation of videos that were provided to school age children on fire safety. Those videos were distributed by the school district to the students to work on projects with their parents at home. With so many children staying at home for extended periods of time, delivering in home training materials related to fire safety makes the parents and the children more aware of the dangers that exist in





Total Department Training 56,239 Hours Provided:



The LDCFM Training Division assisted the Lawrence Police department and the Douglas County Sheriff's department with

Stop the Bleed training. LDCFM's Training Division provided instruction to the Lawrence Police department recruit academy on the use of a tourniquet for self or partner survival skills.









Training Tower



Types of Training Conducted Using the Training Tower / Center:

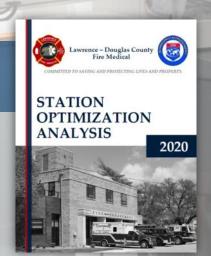
Confined Space
Driving Simulator
Forcible Entry
Grain Entrapment
High-Angle Rope Rescue
Hose Deployment
Hose Testing
Live Fire
Roof Operations
Search and Rescue
Self-Contained Breathing Apparatus
Trench Rescue
Vehicle Extrication

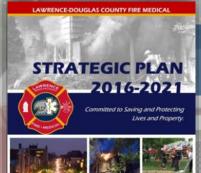
Looking Forward

Station Optimization Analysis

Publish Date: 2021

This report focuses on LDCFM's response model and presents a recommendation on resource reliability and response coverage within the City of Lawrence. To provide more efficient and effective services to a broader community associated with disadvantaged populations, population density, property value, and requests for emergency services, LDCFM has composed this station optimization analysis report to more align with industry best-practice standards.





Community-Driven Strategic Plan

Projected Date: 2021

LDCFM's current Community-Driven Strategic Plan is set to sunset in 2022. The Center for Public Safety Excellence's Technical Advisor Program will be working with LDCFM early Fall to facilitate a community-driven approach to crafting the new edition. The publication will be finalized by the end of 2021.

PulsePoint County-Wide Implementation

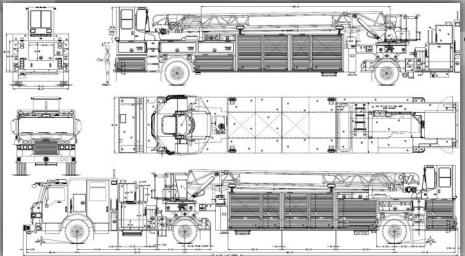
Projected In-Service Date: 2021

PulsePoint is a 911-connected app that can immediately inform subscribers of emergencies occurring in the community and can request bystander help when CPR is needed nearby.



Rescue Tiller Design

Projected In-Service Date: 2022



The department has conducted an analysis of Station 5's current deployment model. It was recommended to replace the Rescue Engine with a Rescue Tiller which has fire suppression capabilities.

Promotions and Retirements

Promotions

Extraboard Firefighters to Full-Time Firefighters

Jose Rodriquez

Dustin Shull

Hannah Somers

Firefighter to Firefighter Paramedic

Eric Lynch

Firefighter to Engineers

Josh Brouhard

Paul Davis

Paramedic Firefighters to Engineers

Redell Frazier

Cody Hoagland

Eric Lynch

Brian Murdock

Dustin Walthall

Engineers to Lieutenants

David Bova

Blake Elder

Alex Wolfe

Lieutenant to Captain

Jeffrey Holland

Acting Officers

Engineer Dustin Deathe

Engineer Redell Frazier

Engineer Brent Luedeke

Engineer Eric Lynch

Engineer Jennifer Persons

Engineer Tim Reazin

Engineer Alex Thomas

Engineer James Welch

Incentives

Firefighter Aaron Davenport - Coroner's Scene Investigator

Engineer Brian Murdock - Technology Specialist

Engineer Jennifer Persons -

Public Education

Retirements

Captain Pete Easterwood – 37 years

Engineer Leo Leiker – 29 years

Division Chief Doug Green – 26 years

Lieutenant Darren Thomas – 25 years

Engineer Sean Humphrey – 23 years

Lieutenant Rob Leach – 21 years

Engineer Chad Gunderson – 19 years

Engineer Jim Thornton – 18 years

Firefighter / Paramedic Cole Broockerd – 3 years