EMS Data Updates

Presented by: CDPHE EMTS Data Section RMD February 13, 2023





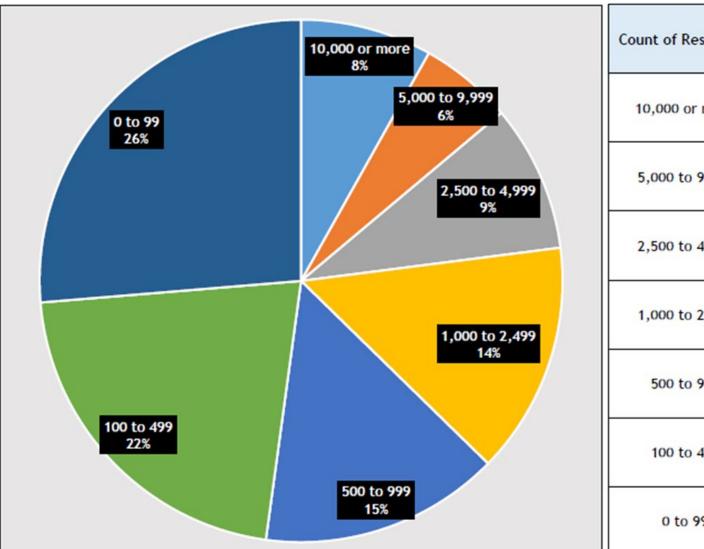
Topics

- EMS system sustainability task force
 - Agency breakdowns
 - Workforce analysis
 - Response times
- Opioid Overdose
 - Biospatial
 - NHTSA/NEMSIS tracker





Percentages of Services by Count of Responses 2022^[1] For and Released To: EMS System and Sustainability Task Force



Count of Responses	Percentage of Services (N=209)
10,000 or more	8%
5,000 to 9,999	6%
2,500 to 4,999	9%
1,000 to 2,499	14%
500 to 999	15%
100 to 499	22%
0 to 99	26%

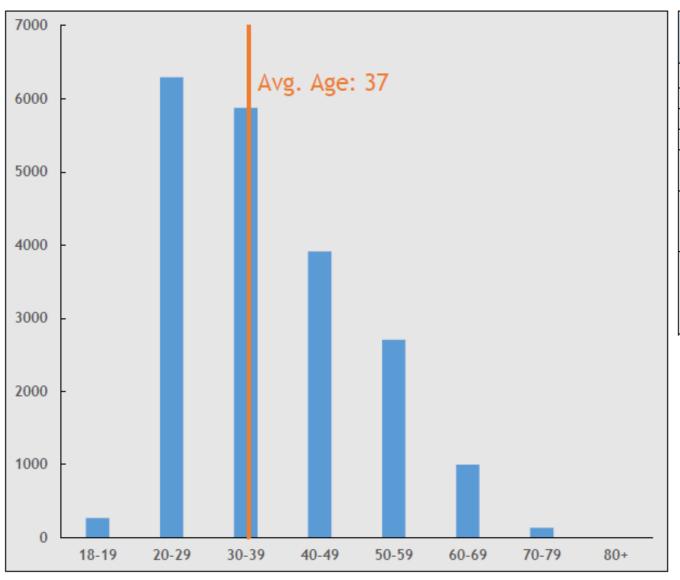


Patient Care Reports (PCRs) from licensed ambulance agencies included this report if incident occurred between 7/1/2021-6/30/2022, AND incident state is equal to Colorado (GNIS=08). Duplicates were identified and removed utilizing patient care report number and unique agency ID. (Patient care report N=754,861)



Certified/Licensed Persons and Their Age 2022^[1]

For and Released To: EMS System and Sustainability Task Force



Certifcation/License Level	Average Age
EMT	36
Advanced EMT	38
EMT-Intermediate	49
Paramedic	41
Paramedic with Critical Care Endorsement	36
Paramedic with Community Paramedic Endorsement	47
Paramedic with Critical Care Endorsement & Community Paramedic Endorsement	37

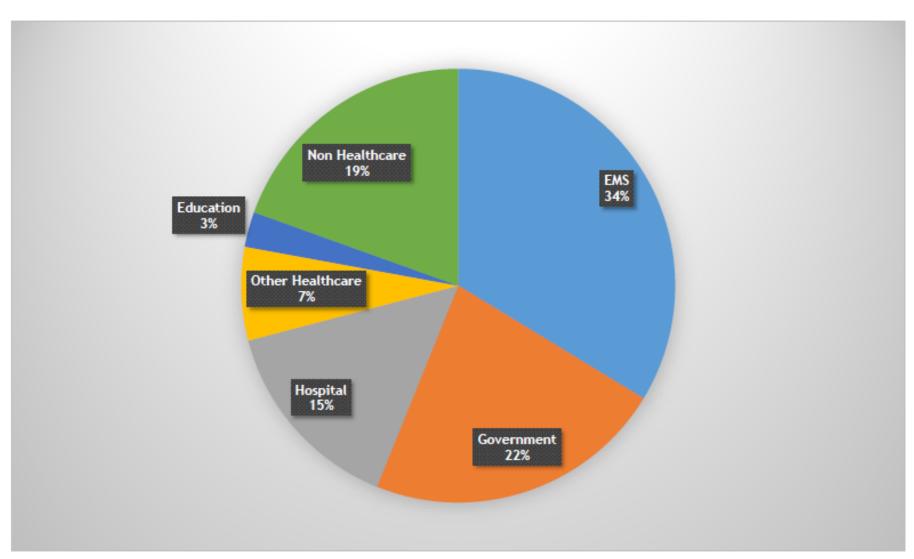




Health Facilities & Emergency Medical Services Division

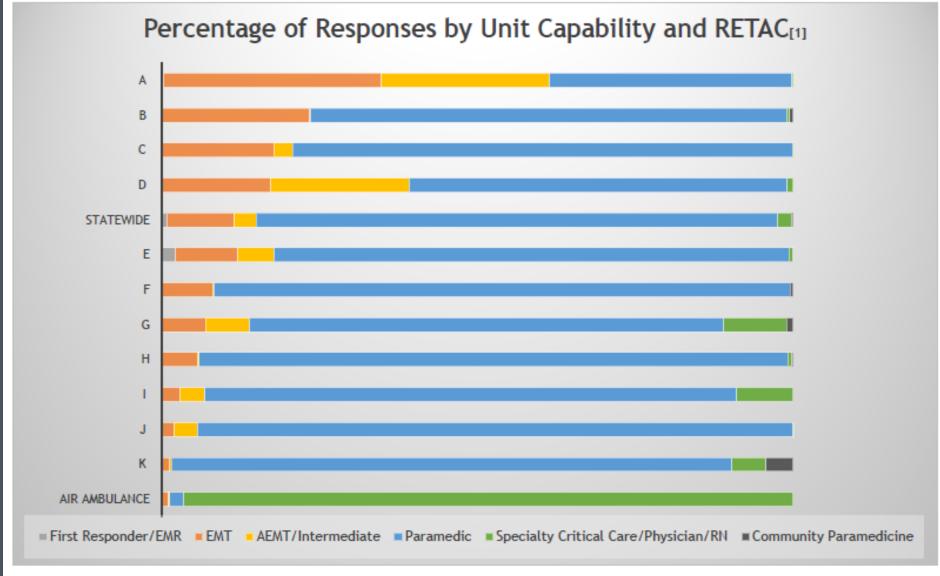
Department of Public Health & Environment:

Colorado Cerified or Licensed EMS Provider Employer Groups 2022[1] For and Released To: EMS System and Sustainability Task Force





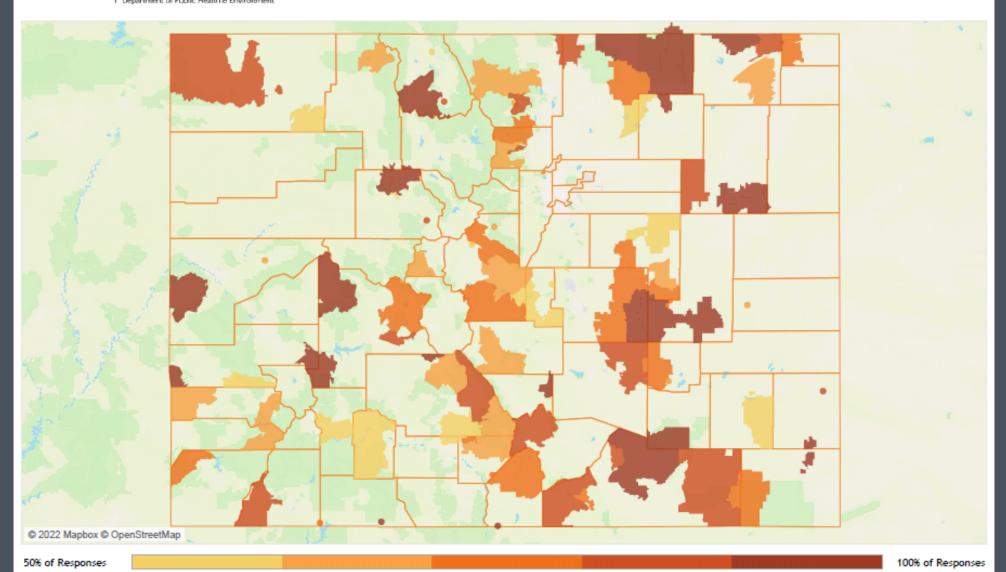




[1] Patient Care Reports (PCRs) from licensed ambulance agencies included this report if incident occurred between 7/1/2021-6/30/2022, AND incident state is equal to Colorado (GNIS=08). Duplicates were identified and removed utilizing patient care report number and unique agency ID. (N=754,861)









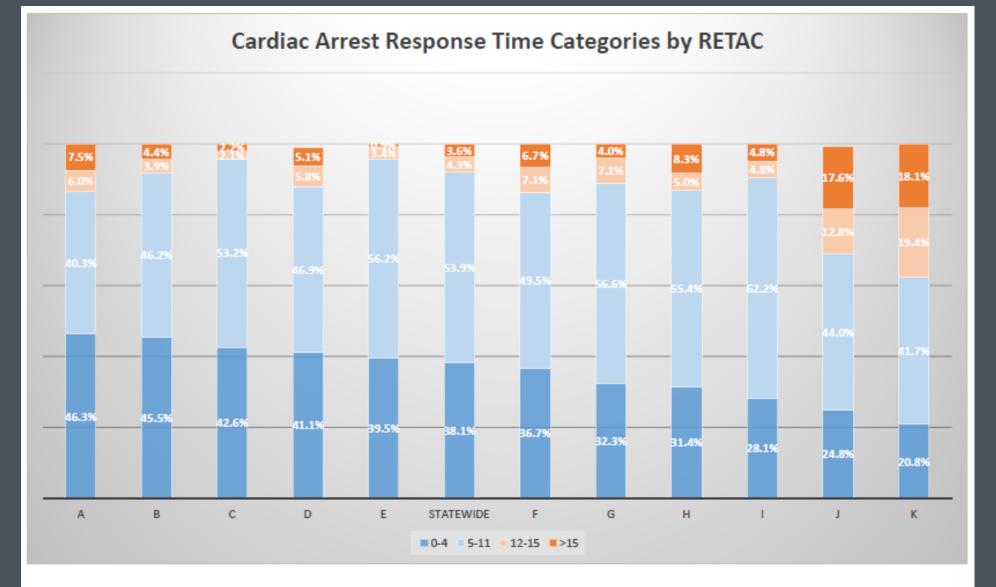
Patient Care Reports (PCRs) from licensed ambulance agencies were included this report if incident occurred between 7/1/2021-6/30/2022, AND incident state is equal to Colorado (GNIS=08).

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Peratment of Incident Care Reports (PCRs) from licensed ambulance agencies were included this report if incident occurred between 7/1/2021-6/30/2022, AND incident state is equal to Colorado (GNIS=08).

Duplicates were identified and removed utilizing patient care report number and unique agency ID. Response times in minutes were calculated from the time the unit was notified by dispatch to when they arrived on scene. Analysis threshold of greater than 18-minute response time was calculated as 2 standard deviations greater than the statewide average response time (7.6 minutes).

PCRs with missing or invalid zip codes, dates or times were excluded, as well as response times >24 hours and 0.01% of top response times to control for outliers. Zip codes with <5 total responses documented were excluded (N=554,223)





[1] Patient Care Reports (PCRs) from licensed ground ambulance agencies included this report if incident occurred between 7/1/2021-6/30/2022, AND incident state is equal to Colorado (GNIS=08) AND Cardiac Arrest equals yes, before or after EMS arrival AND Resuscitation was attempted and/or patient was transported. Duplicates were identified and removed utilizing patient care report number and unique agency ID. (N=5,037)





Opioid Data







Opioid (FL ESOOS)

Categorical syndrome definition based on Enhanced State Opioid Overdose Surveillance (ESOOS) criteria as defined by the state of Florida, intended to detect incidents involving opioid-related overdoses. The criteria are defined as follows:

Labeled as opioid overdose if any of the following are true:

- Naloxone (or brand names) listed as medication administered (E18_03; eMedications.03) AND medication response (E18_07; eMedications.07) is "Improved".
- Provider primary/secondary impression (E09_15, E09_16; eSituation.11, eSituation.12) is any of 977.90 (ICD-9) F11, T40.1-T40.4, T40.60, T40.69 (sub-codes included) AND either of the following are true:
 - Naloxone (or brand names) listed as medication administered (E18_03; eMedications.03).
 - Narrative (E13_01; eNarrative.01) contains "Narcan" or "naloxone" AND narrative (E13_01; eNarrative.01) contains one
 of the following unresponsive search terms: "unresponsive", "apneic", "apnea", "semi-cons", "semi cons", "uncons",
 "agonal".
 - Narrative (E13_01; eNarrative.01) OR chief complaint (E09_05; eSituation.04) contain "opioid", "opiate", "opium", "fentanyl", "heroin", "speedball", "speed ball", "spheroin", or "hod".
- Naloxone (or brand names) listed as medication administered (E18_03; eMedications.03) AND medication response (E18_07; eMedications.07) is not entered AND either of the following are true:
 - Narrative (E13_01; eNarrative.01) contains "Narcan" or "naloxone" AND narrative (eNarrative.01) contains one of the following unresponsive search terms: "unresponsive", "apneic", "apnea", "semi-cons", "semi cons", "uncons", "agonal".
 - Narrative (E13_01; eNarrative.01) OR chief complaint (E09_05; eSituation.04) contain "opioid", "opiate", "opium", "fentanyl", "heroin", "speedball", "speed ball", "spheroin", or "hod".

NOTE: Common misspellings and other variants of terms are considered when checking the narrative or chief complaint elements.





Suspected Overdoses

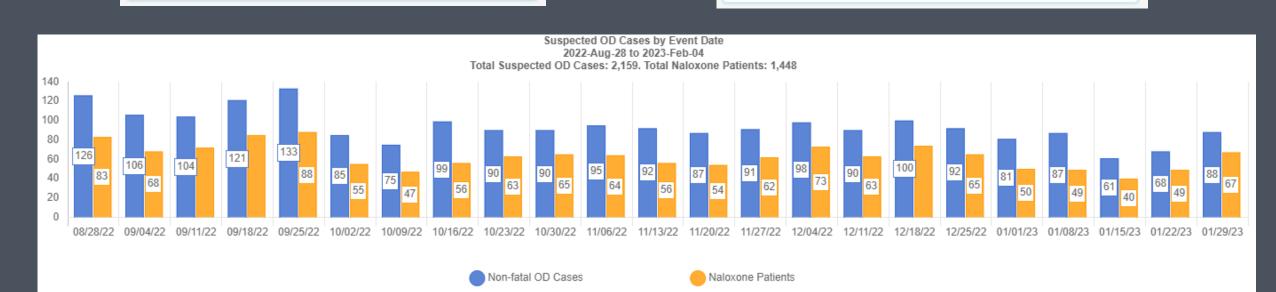
Suspected Overdoses
2,159

2023 YTD: 405

Incident Counties

43

2023 YTD: 20







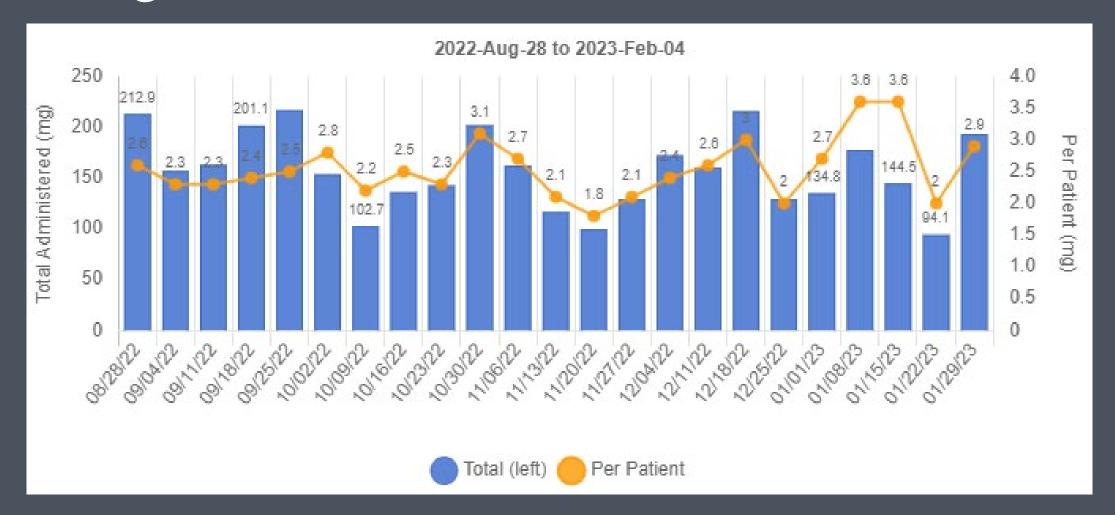
Suspected Overdoses by Day and Hour







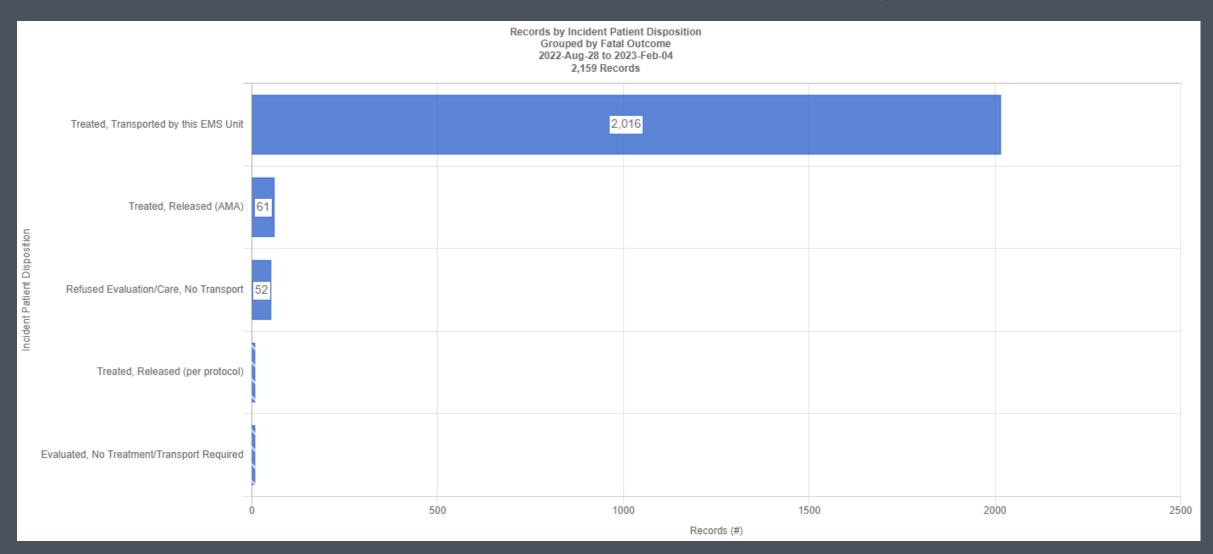
Milligrams Naloxone Administered







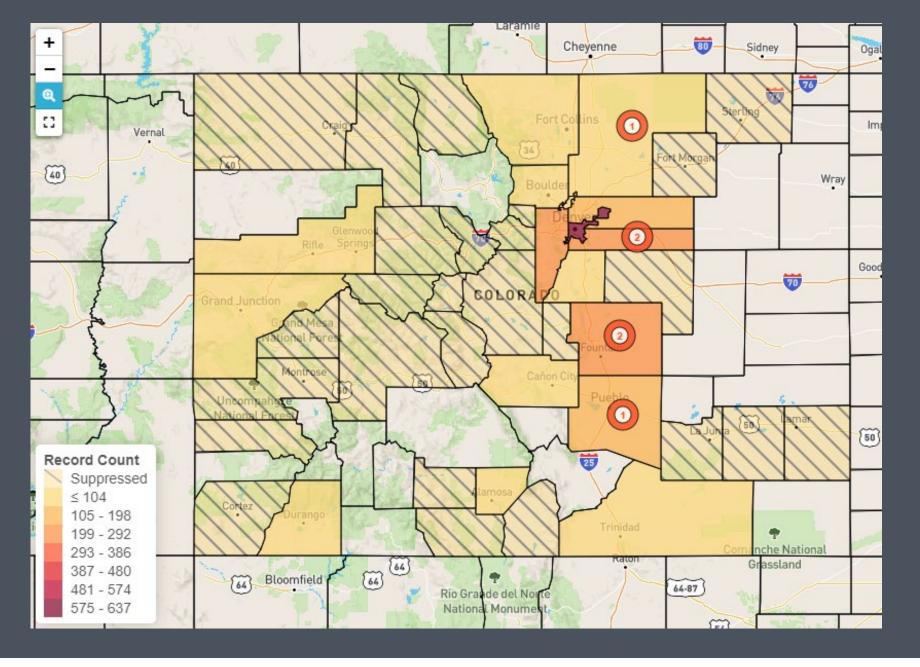
Records by Incident Patients Disposition







Overdose Map







White House Opioid Overdose Tracker

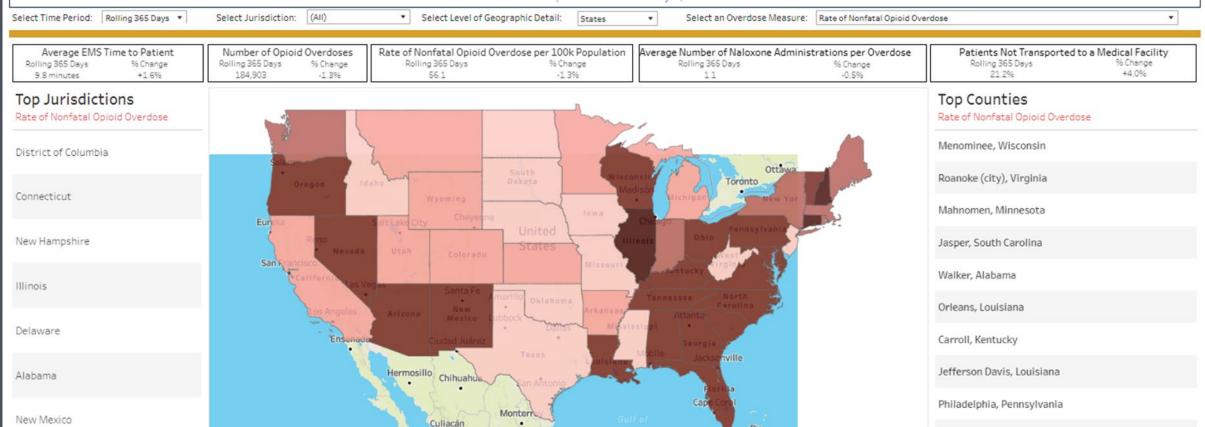




Non-Fatal Opioid Overdose Surveillance Dashboard

January 23, 2022 - January 22, 2023

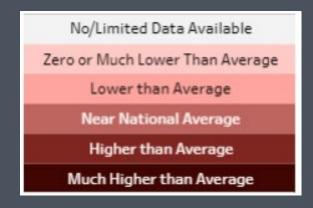
EMS Data Updated On: February 7, 2023

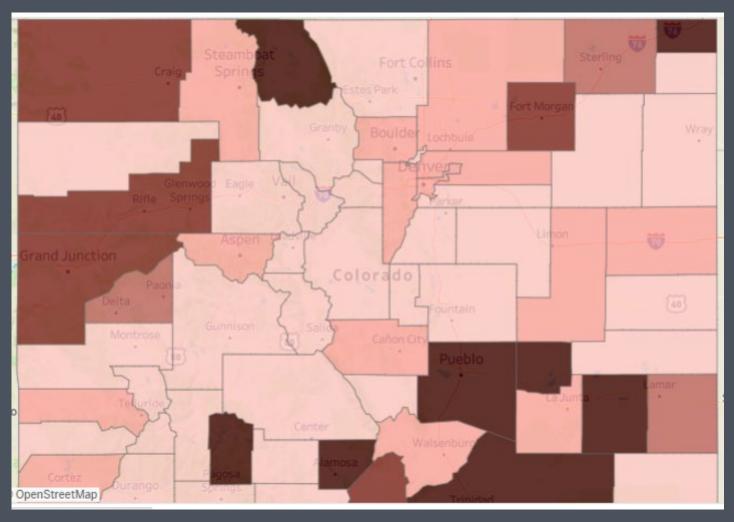






Rate of Nonfatal Opioid Overdose





https://nemsis.org/opioid-overdose-tracker/





Average # of Naloxone Administrations per

Overdose Patient

No/Limited Data Available

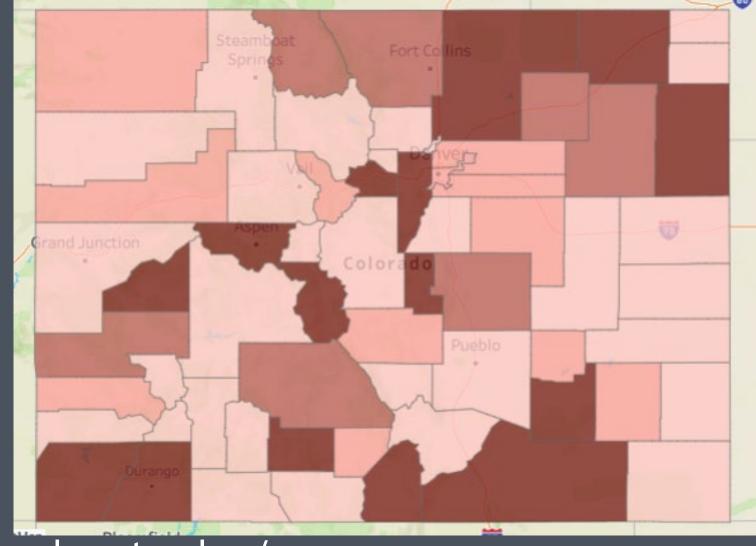
Zero or Much Lower Than Average

Lower than Average

Near National Average

Higher than Average

Much Higher than Average



https://nemsis.org/opioid-overdose-tracker/





Contact Information

EMTS Data Section Inbox

cdphe.emtsdata@state.co.us

Amber Viitanen EMTS Data Section Manager

amber.viitanen@state.co.us || 720.633.5653



