



**Ingham County**  
**Health Department**

# Opioid Surveillance February 2020

# Ingham County Opioid Surveillance

## Medical Examiner

Source: Ingham County Medical Examiner,

Data are current as of 4/17/2020. All tables and graphs represent cases through Feb 29, 2020

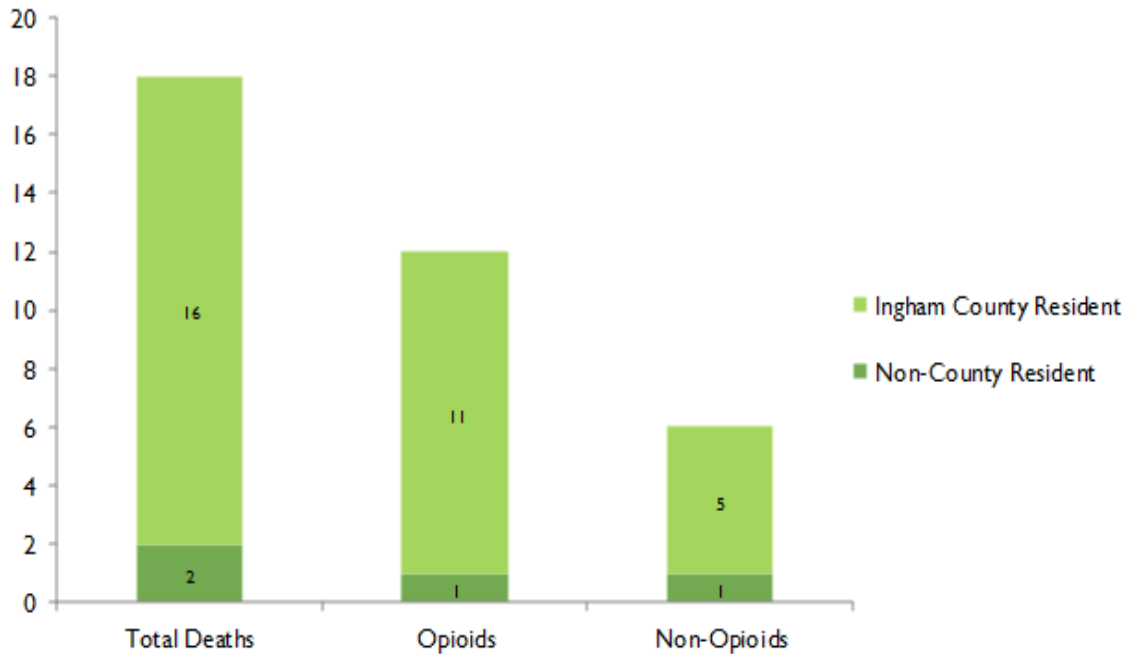
- 18 total drug-related deaths (Table 1 & Fig. 1)
  - 12 deaths were opioid-related.
    - 11 opioid-related deaths were Ingham County residents.
    - 1 opioid-related death was a non-county resident.
  - 6 deaths were non-opioid-related.
    - 5 non-opioid deaths were Ingham County residents.
    - 1 non-opioid death was a non-county resident.

Table 1: Number of drug-related deaths by related cause of death and county of residence, Ingham County 2020\*

| Related Cause of Death | Ingham County Resident | Non-County Resident | Total     |
|------------------------|------------------------|---------------------|-----------|
| Opioids                | 11                     | 1                   | 12        |
| Non-Opioids            | 5                      | 1                   | 6         |
| <b>Total</b>           | <b>16</b>              | <b>2</b>            | <b>18</b> |

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Figure 1: Drug-related deaths by related cause of death and county of residence, Ingham County 2020\*



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# Ingham County Opioid Surveillance

Figure 2: Number of opioid-related deaths among residents in Ingham County by month, Ingham County 2018 - 2020\*

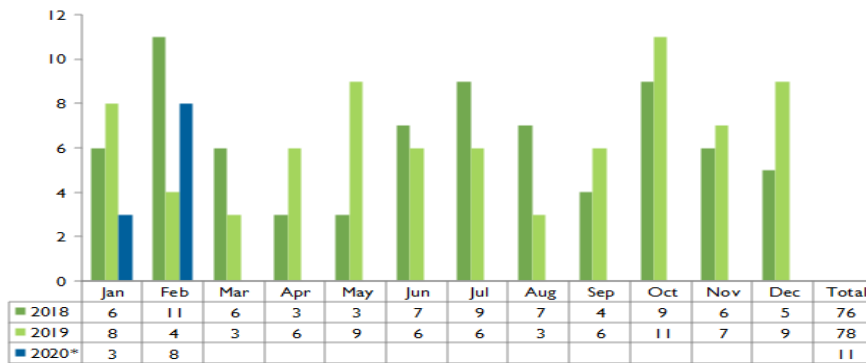


Figure 3: Opioid-related deaths by educational level among Ingham County residents, 2020\*

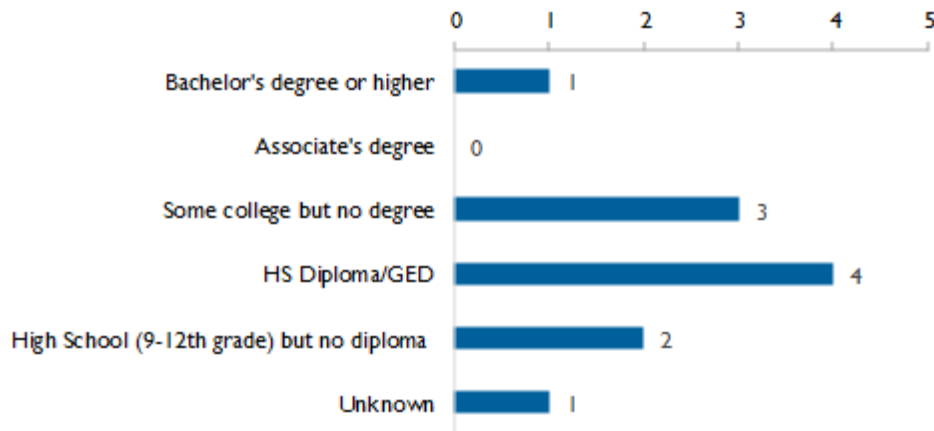
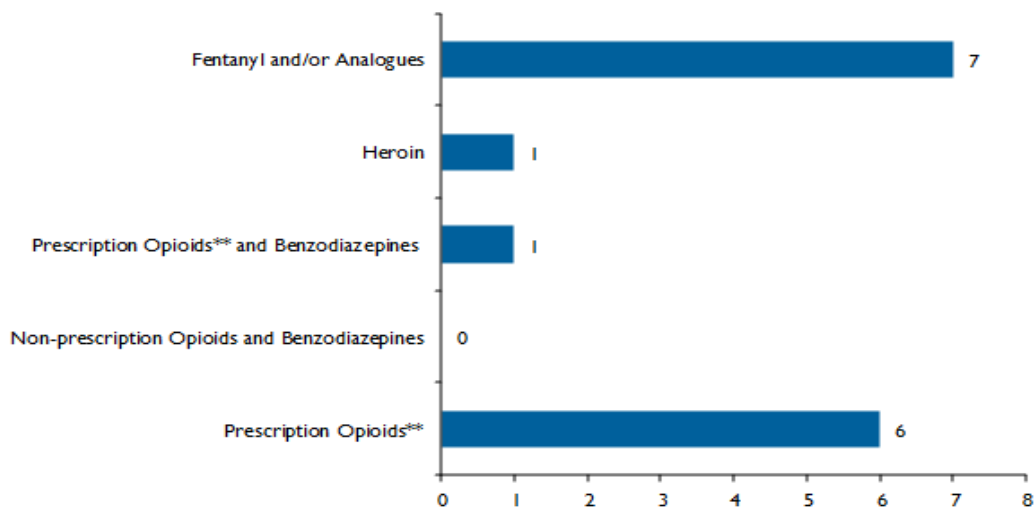


Figure 4: Opioid-related deaths by selected type of opioid among Ingham County residents, Ingham County 2020\*



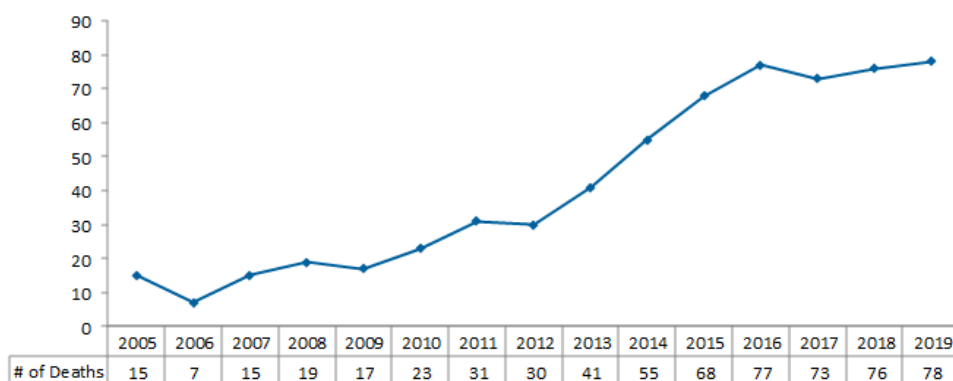
Note: Deaths by type of drug are not mutually exclusive. Often multiple drugs are identified as a related cause of death in a single case.

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\*\*Morphine, Codeine, Methadone, Oxycodone, Hydrocodone, Hydromorphone, Oxymorphone., Tramadol, and Meperidine

# Ingham County Opioid Surveillance

Figure 4: Number of opioid-related deaths among residents in Ingham County by month, 2005-2019\*\*



Sources: 1. Michigan Substance Use Disorder Data Repository based on data from Michigan Death Certificates, Division for Vital Records and Health Statistics/ MDHHS (2004-2013). Retrieved from <http://mi-suddr.com/blog/2018/09/26/opioid-heroin-poisonings/> [Accessed 2/25/2020]  
 2. Ingham County Medical Examiner Records (2014 - 2019)

Table 2: Characteristics of Opioid-related deaths among residents in Ingham County, Ingham County 2020\*\*

| Decedent Characteristic     | Number  | Death Rate† | 95% CI for Calculated Rate |
|-----------------------------|---------|-------------|----------------------------|
| <b>Total Deaths</b>         | 11      | *           | *                          |
| <b>Sex</b>                  |         |             |                            |
| Male                        | 5       | *           | *                          |
| Female                      | 6       | *           | *                          |
| <b>Age Group</b>            |         |             |                            |
| <15                         | 0       | *           | *                          |
| 15-24                       | 2       | *           | *                          |
| 25-34                       | 5       | *           | *                          |
| 35-44                       | 1       | *           | *                          |
| 45-54                       | 2       | *           | *                          |
| 55-64                       | 1       | *           | *                          |
| ≥65                         | 0       | *           | *                          |
| <b>Race</b>                 |         |             |                            |
| White                       | 7       | *           | *                          |
| Black                       | 4       | *           | *                          |
| Other                       | 0       | *           | *                          |
| <b>Hispanic Ethnicity</b>   |         |             |                            |
| Hispanic or Latino          | 0       | *           | *                          |
| Non-Hispanic or Latino      | 7       | *           | *                          |
| Unknown                     | 1       | *           | *                          |
| Missing                     | 0       | *           | *                          |
| <b>Other characteristic</b> |         |             |                            |
| <b>Age (years)</b>          |         |             |                            |
| Median                      | 30      |             |                            |
| Mean                        | 35.5    |             |                            |
| Range                       | 23 - 63 |             |                            |
| <b>Manner of Death</b>      |         |             |                            |
| Accident                    | 9       |             |                            |
| Indeterminate               | 2       |             |                            |
| Suicide                     | 0       |             |                            |

†All rates are per 100,000 Ingham County residents

\*Data suppressed due to insufficient numbers.

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# Ingham County Opioid Surveillance

## EMS/ Fire Department

Source: City of Lansing Fire Department/EMS,

\*Data are current as of 3/12/2020. All tables and graphs represent cases through Feb 29, 2020

- Each Naloxone incident is defined as Naloxone administered to a person at a specific place and time excluding repeated doses.
- Total number of Naloxone incidents 63
  - Number of Naloxone incidents (1 dose administered per person) 34
  - Number of Naloxone incidents (2 doses administered per person) 19
  - Number of Naloxone incidents (3 doses administered per person) 6
  - Number of Naloxone incidents (4 or more doses administered per person) 4
  - Average age: 42.2 years, Median age: 40 years

Figure 5: Number of Naloxone incidents by month in Ingham County, 2018 - 2020\*

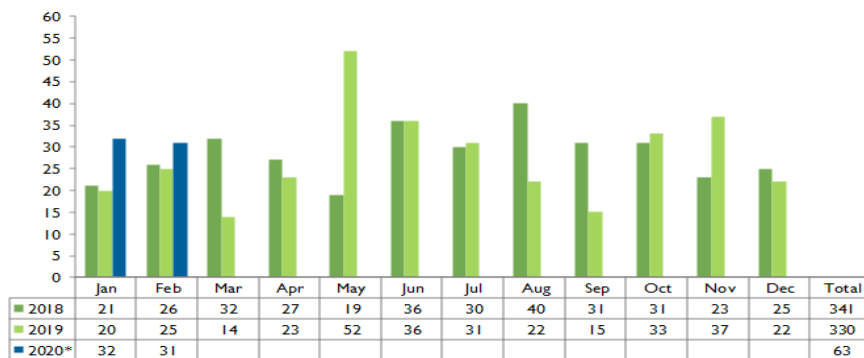


Table 3: Naloxone incidents by demographic characteristics, City of Lansing, 2020\*

| Characteristic   | Count     | Percent       |
|------------------|-----------|---------------|
| <b>Sex</b>       |           |               |
| Male             | 49        | 77.8%         |
| Female           | 14        | 22.2%         |
| Missing          | 0         | 0.0%          |
| <b>Age Group</b> |           |               |
| <15              | 0         | 0.0%          |
| 15-24            | 5         | 7.9%          |
| 25-34            | 19        | 30.2%         |
| 35-44            | 15        | 23.8%         |
| 45-54            | 10        | 15.9%         |
| 55-64            | 9         | 14.3%         |
| ≥65              | 5         | 7.9%          |
| Missing          | 0         | 0.0%          |
| <b>Race</b>      |           |               |
| White            | 28        | 44.4%         |
| Black            | 10        | 15.9%         |
| Other Race       | 2         | 3.2%          |
| Missing          | 23        | 36.5%         |
| <b>Total</b>     | <b>63</b> | <b>100.0%</b> |

\*Data are current as of 3/12/2020. All tables and graphs represent cases through Feb 29, 2020

# Ingham County Opioid Surveillance

## Law Enforcement Data

Sources: East Lansing Police Department and Lansing Police Department (Lansing only). Drug Overdose Incidents in Tri-County Area through Feb 29, 2020\*

- 36 drug overdose incidents:
  - 34 survived
  - 2 died
- Average age: 39.0 years
- Median age: 37 years

Table 4: Number of drug overdose-related cases (including overdose-related deaths) by law enforcement jurisdiction and month of incident, Tri-County Area 2020\*

| Jurisdiction            | Jan       | Feb       | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Oct      | Nov      | Dec      | Year-to-Date |
|-------------------------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|
| Bath Twp                |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| Charlotte PD            |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| Delhi Twp               |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| DeWitt Twp PD           |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| ECSD                    |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| CCSO/CCSD               |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| E. Lansing PD           |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| ICSO/ICSD               | 1         | 1         |          |          |          |          |          |          |          |          |          |          | 2            |
| Lansing PD              | 12        | 22        |          |          |          |          |          |          |          |          |          |          | 34           |
| Lansing Charter Twp PD  |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| Mason/ICSO Assist       |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| Meridian Charter Twp PD |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| Williamston PD          |           |           |          |          |          |          |          |          |          |          |          |          | 0            |
| <b>Total</b>            | <b>13</b> | <b>23</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>36</b>    |

Source: Ingham County law enforcement jurisdictions

Note: ICSO - Ingham County Sheriff's Office, ECSO - Eaton County Sheriff's Office, MTPD - Meridian Township Police Dept.

\*Data are current as of 3/2/2020. All tables and graphs represent cases through Feb 29, 2020.

Table 5: Number of drug overdose-related deaths by law enforcement jurisdiction and month of incident, Tri-County Area 2020\*

| Jurisdiction  | Jan      | Feb      | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Oct      | Nov      | Dec      | Year-to-Date |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|
| Bath Twp      |          |          |          |          |          |          |          |          |          |          |          |          | 0            |
| CCSO/CCSD     |          |          |          |          |          |          |          |          |          |          |          |          | 0            |
| Charlotte PD  |          |          |          |          |          |          |          |          |          |          |          |          | 0            |
| DeWitt Twp PD |          |          |          |          |          |          |          |          |          |          |          |          | 0            |
| ELPD          |          |          |          |          |          |          |          |          |          |          |          |          | 0            |
| ICSO/ICSD     |          |          |          |          |          |          |          |          |          |          |          |          | 0            |
| Lansing PD    | 1        | 1        |          |          |          |          |          |          |          |          |          |          | 2            |
| MTPD          |          |          |          |          |          |          |          |          |          |          |          |          | 0            |
| <b>Total</b>  | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>2</b>     |

Source: Ingham County law enforcement jurisdictions

# Ingham County Opioid Surveillance

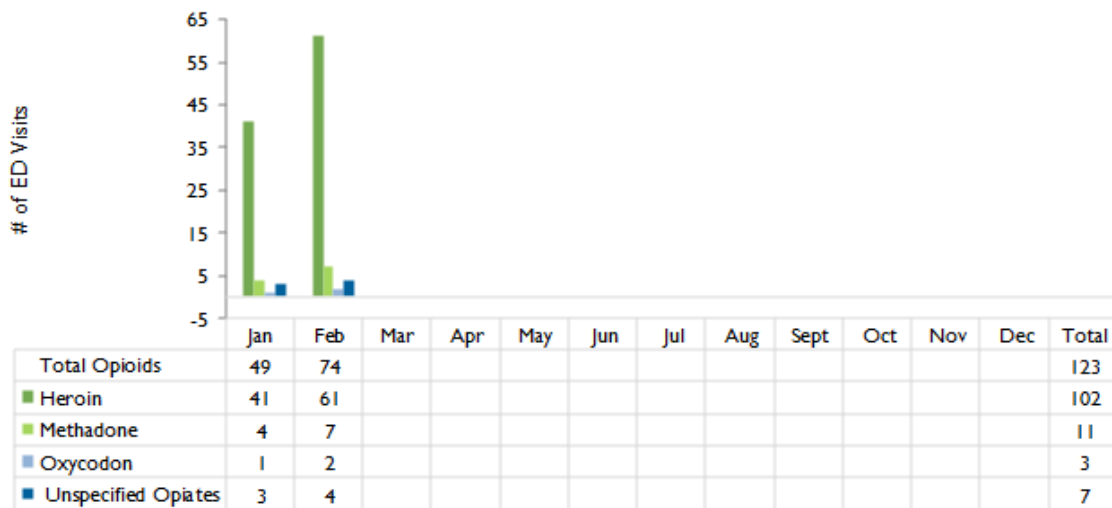
## Emergency Department Visit Data

Source: Michigan Syndromic Surveillance System,

Data are current as of 3/11/2020. All tables and graphs represent cases through Feb 29, 2020\*

- Total of 123 opioid overdose-related visits
  - Average age : 40.5 years
  - Median age: 35 years

Figure 6: Number of Opioid Overdose-related Emergency Department Visits by Month, Ingham County 2020\*

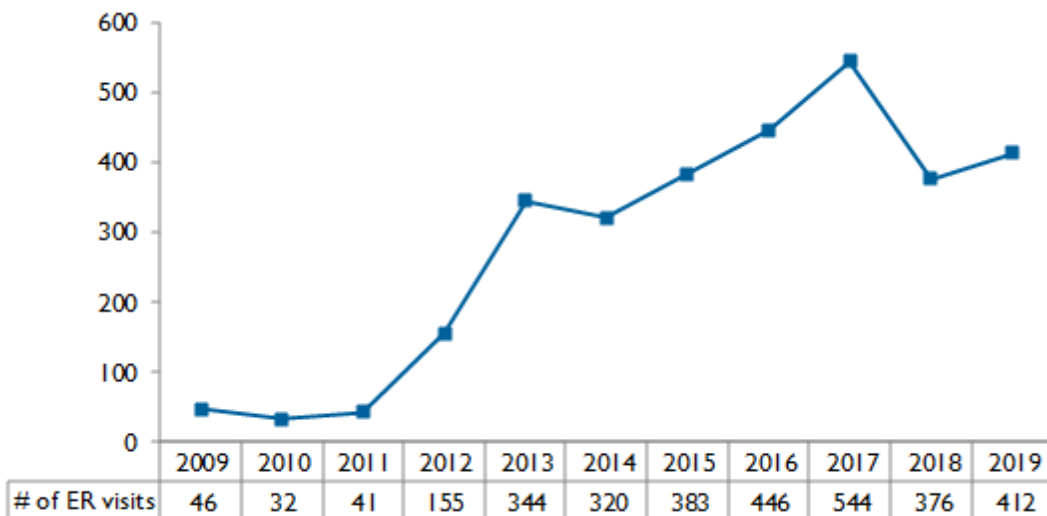


Source: Michigan Syndromic Surveillance System

\*Data are current as of 3/11/2020. All tables and graphs represent cases through Feb 29, 2020

Note: Numbers are based on emergency department visit (chief complaints) and before any confirmed diagnoses are made.

Figure 7: Number of Overdose-related Emergency Department Visits Ingham County, 2009-2019



# Ingham County Opioid Surveillance

## **Ingham County Department of Health and Human Services (DHHS)**

Source: Department of Health and Human Services (DHHS)

Data are current as of 5/5/2020. All tables and graphs represent cases through Feb 29, 2020

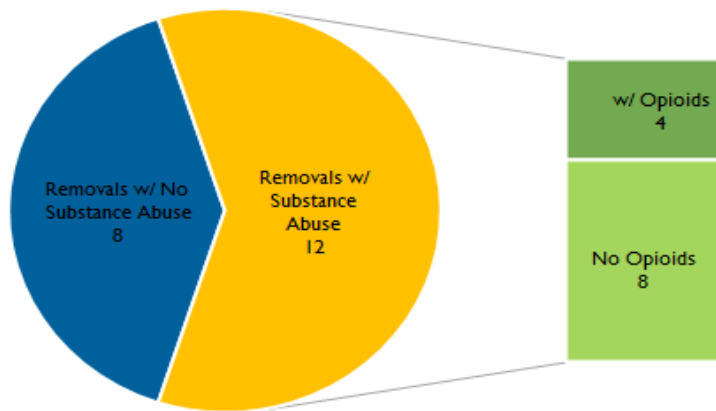
- Total of 20 child removals (27 children)
- 12 removals involved substance abuse
- 4 removals involved opioids

On average, 6 removals per month involved substance abuse and 2 opioids.

Table 6: Number of Removals by Month, Ingham County 2020\*

| Child Removals     | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | Year to Date |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|--------------|
| Total Removals     | 10  | 10  |     |     |     |     |     |     |      |     |     |     | 20           |
| Substance Abuse    | 4   | 8   |     |     |     |     |     |     |      |     |     |     | 12           |
| Opioids            | 1   | 3   |     |     |     |     |     |     |      |     |     |     | 4            |
| Non-Opioids        | 3   | 5   |     |     |     |     |     |     |      |     |     |     | 8            |
| No Substance Abuse | 6   | 2   |     |     |     |     |     |     |      |     |     |     | 8            |

Figure 8: Total Number of Removals by Substance Abuse, Ingham County 2020\*



Total DHHS Removals = 20

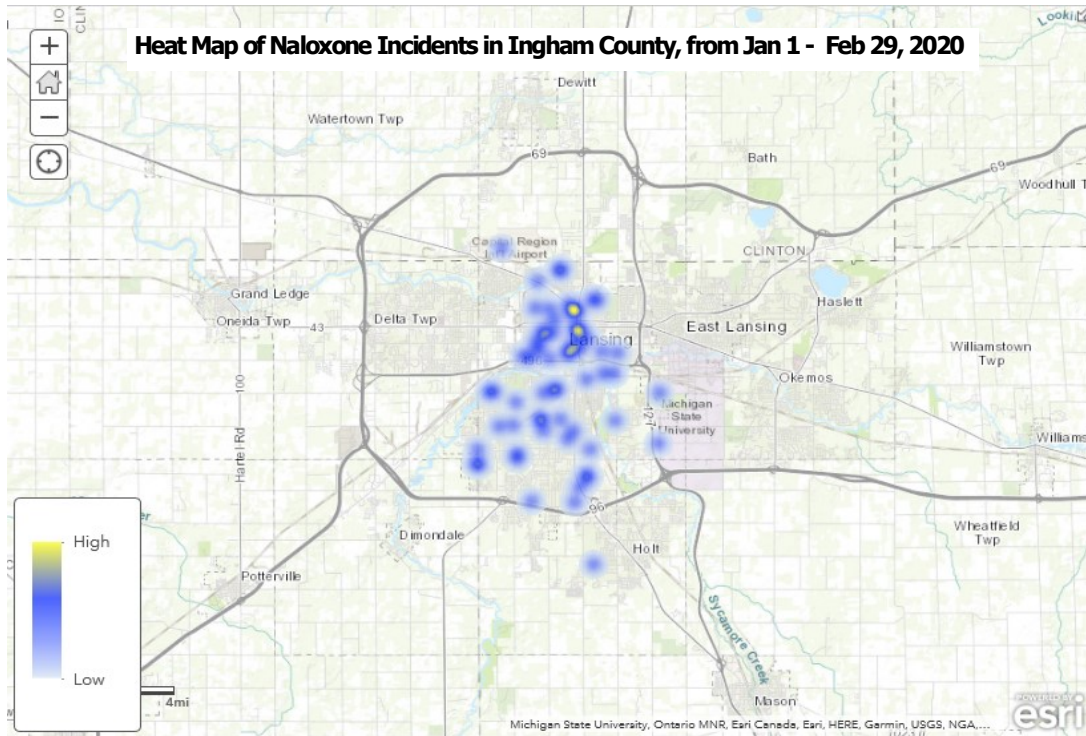
Source: Ingham County Department of Health and Human Services (DHHS)

\*Data are current as of 5/5/2020. All tables and graphs represent cases through Feb 29, 2020.

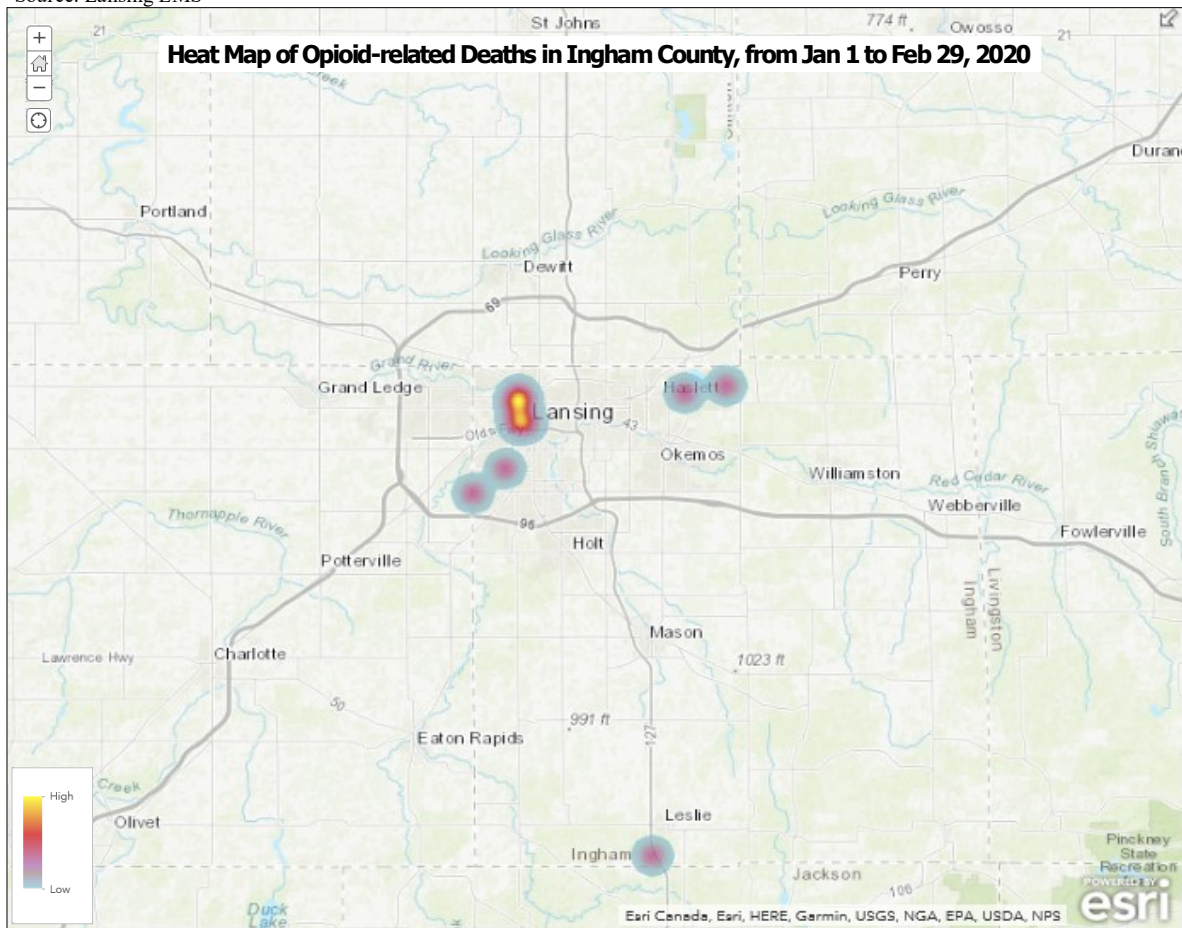
**Important Note: Counts reported in this document do not represent final numbers. They are subject to change after cases are updated by the data source.**



# Ingham County Opioid Surveillance



Source: Lansing EMS



Source: Ingham County Medical Examiner (geocoded residential addresses of the deceased, not the location where the event occurred)