SEOW Webinar Series Part 2: Consequences/Impact of Substance Use in Maine



By Tim Diomede, MPPM

October 2016



Agenda

- Purpose of the SEOW
- Presentation of Key Findings
- New and Updated Resources
- Questions/Discussion

SEOW What?

(Purpose of the State Epidemiological Outcomes Workgroup)

- Promote systematic, data-driven decision-making
- Guide effective and efficient use of prevention resources
- Identify, track, and detect emerging substances/trends
- Serve as a clearing house and facilitator
- Help secure funds and measure progress
- Opportunity for networking and collaboration

Costs of substance abuse Nationally

- Addiction is a serious driver of healthcare costs, with estimates for all substances at \$216B annually in 2006. (DHHS/SAMHSA)
- Prescription opioid overdose, abuse, and dependence is estimated to cost \$78.5 billion annually. (National Center for Statistics and Analysis).
- ➤ Health care costs for employees who have addiction problems are twice as high as compared to their colleagues who not are not afflicted. (PEW Charitable Trust)
- An estimated 500 million workdays are lost annually due to addiction problems. (DHHS, SAMHSA)
- Substance use problems by employees have been linked to:
 - Higher healthcare expenses for injuries and illnesses
 - Higher rates of absenteeism
 - Reductions in job productivity and performance
 - More workers' compensation and disability claims (DHHS, SAMHSA)
- Almost half of all emergency room visits for trauma and/or injury are alcohol related. (<u>National Center for Statistics and Analysis</u>)

Costs of substance abuse in Maine

- In 2010, the total annual estimated cost of substance abuse in Maine was \$1.4 billion (\$1,057 for every resident of Maine).
- The cost of providing hospital inpatient care for patients in Maine in 2010, due to co-occurring substance dependency, was estimated at \$145.1 million, 83.4% of which was related to alcohol use.
- ➤ Morbidity cost in Maine in 2010 due to alcohol or drug abuse was \$188.6 million.
- ➤ The cost of alcohol-related motor vehicle crashes in Maine in 2010 is estimated at \$53.1 million
- An estimated \$45.9 million in child welfare costs related to substance abuse was spent in Maine during 2010.
- > Drug- and alcohol-related crime costs in Maine in 2010 were \$343.4 million.

Prevention Cost Savings

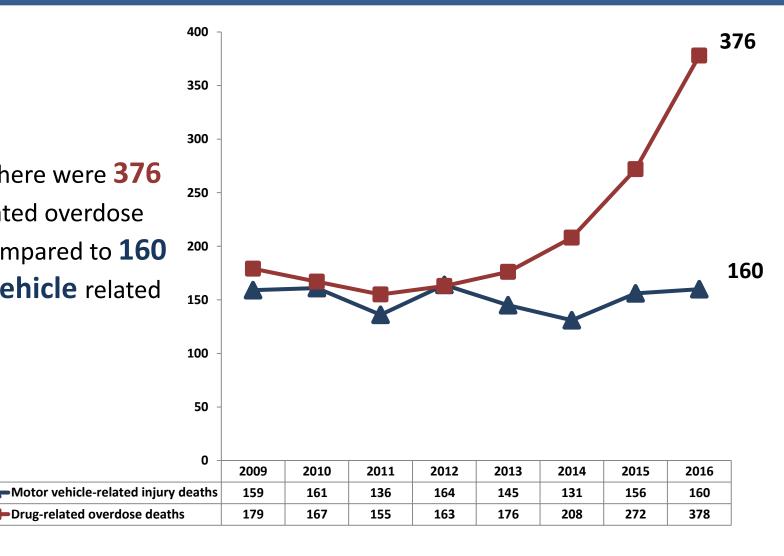
- Cost-benefit ratios for early treatment and prevention programs for addictions and mental illness programs range from 1:2 to 1:10 ratio.
- This means a \$1 investment yields \$2 to \$10 savings in health costs, criminal and juvenile justice costs, educational costs, and lost productivity.
- Bottom line: Prevention of substance abuse helps avert hardships and saves money.

Source: The Institute of Medicine and National Research Council's <u>Preventing Mental,</u> <u>Emotional, and Behavioral Disorders Among Young People report – 2009</u>

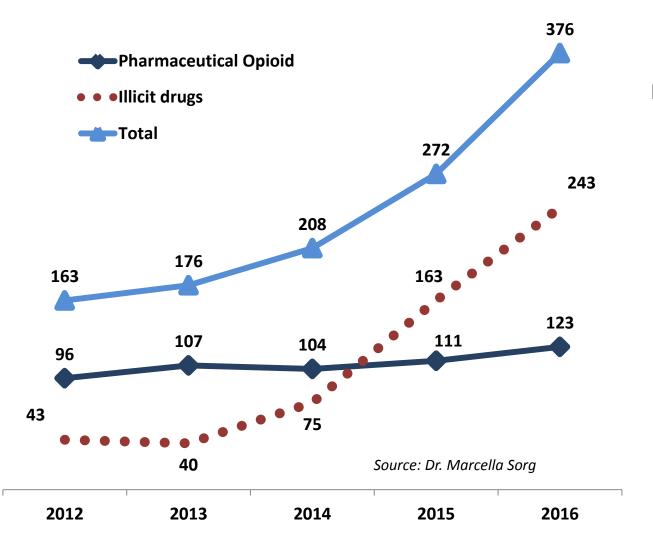
Consequence/Impact Data

Unintentional Injury Deaths in Maine, by type: 2009-2016

In 2016, there were **376** drug related overdose deaths compared to **160** motor vehicle related deaths.



Number of deaths* caused by pharmaceuticals and/or illicit drugs: 2012–2016

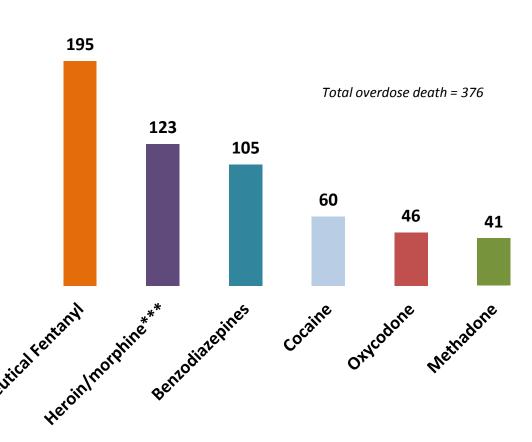


from 2015 to 2016, total drug overdose deaths increased by 38%; illicit drug overdoses increase by 50%; pharmaceutical overdoses increased by 11%.

*Deaths involving pharmaceuticals and illicit drugs are not mutually exclusive.

Number of drug deaths involving specific drug types*: 2016**

- Half (52%) of overdose deaths involved
 Non-pharmaceutical Fentanyl.
- one in three overdose deaths involved heroin/morphine***.
- Nearly a third (28%) involved benzodiazepines.

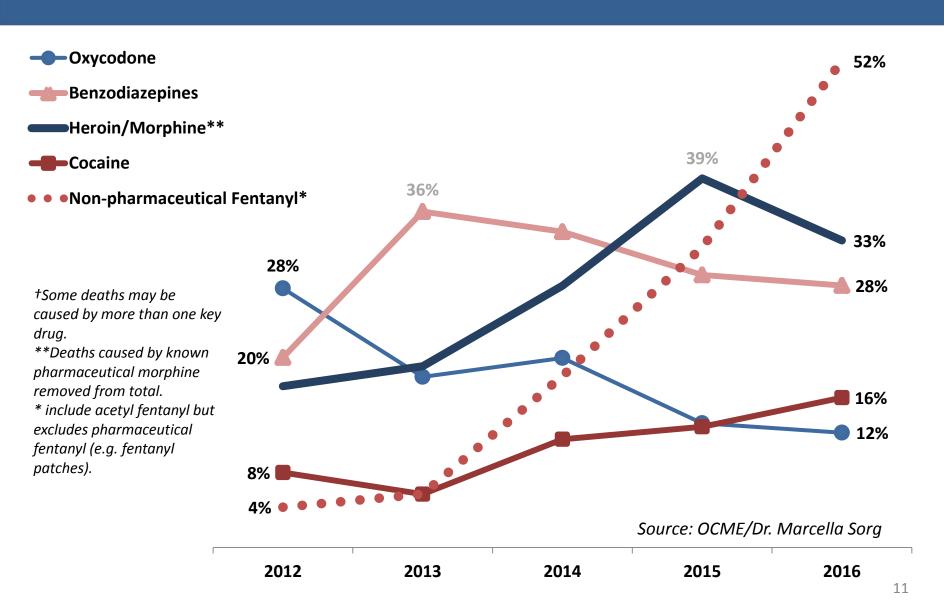


^{*}Some deaths may be caused by more than one key drug.

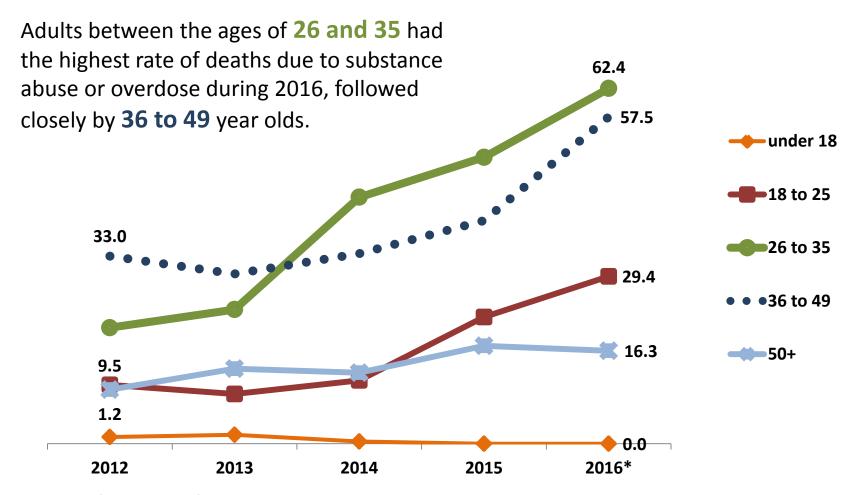
^{**2016} results are preliminary

^{***}Deaths caused by known pharmaceutical drugs removed from total.

Percent of drug deaths involving specific drug types†: 2012–2016



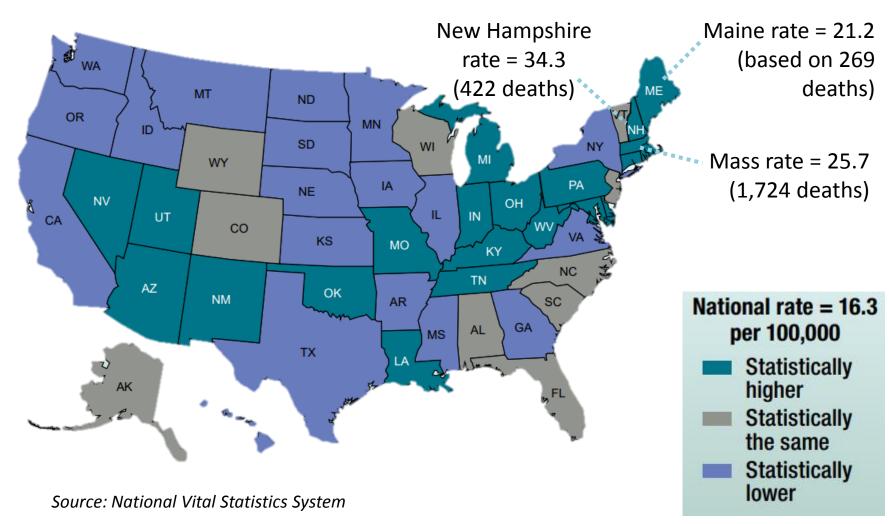
Substance abuse and overdose deaths, per 100,000, by age group: 2012–2016*



*2016 results are preliminary

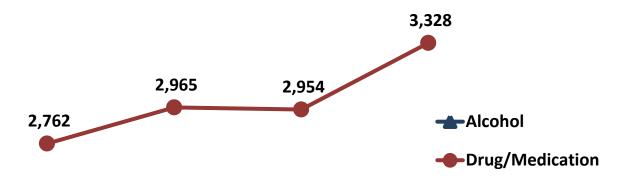
Source: DRVS

Age adjusted drug poisoning death rates, by state: 2015

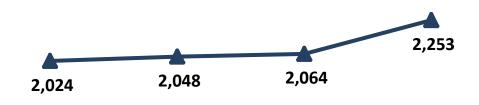


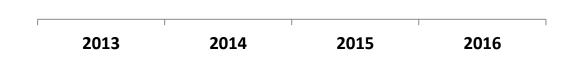
Number of overdose EMS responses, by type: 2013 - 2016

 EMS Responses related to drugs and/or medication have increased by 20% from 2013 to 2016.



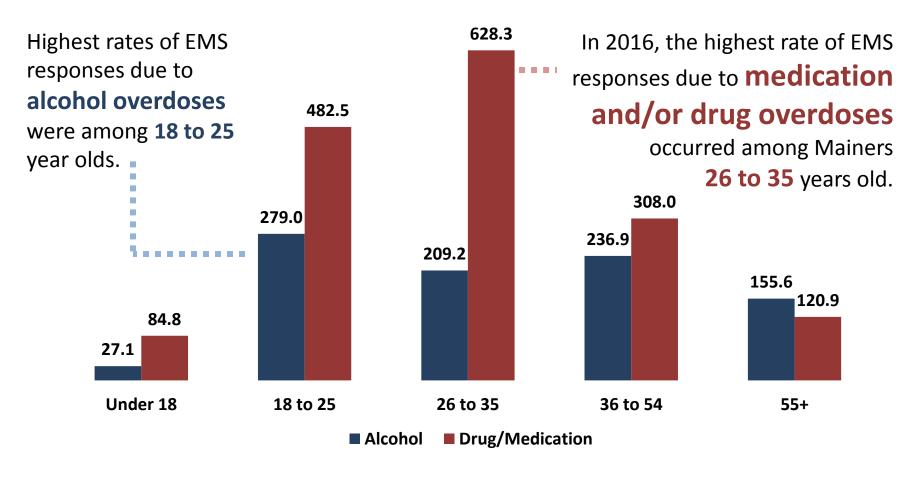
From 2013 to 2016, EMS overdose responses involving alcohol overdoses increased by 11%.





^{*}Drugs/medication include illicit drugs and prescription drugs. Data are not broken down further than this category.

EMS overdose response rate (per 100,000 residents), by age and overdose type: 2016



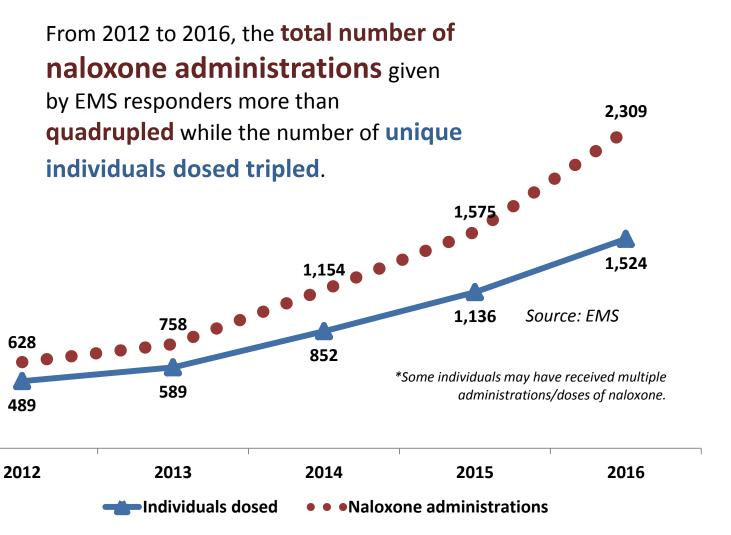
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EMS overdose response rate by age and overdose type: 2016

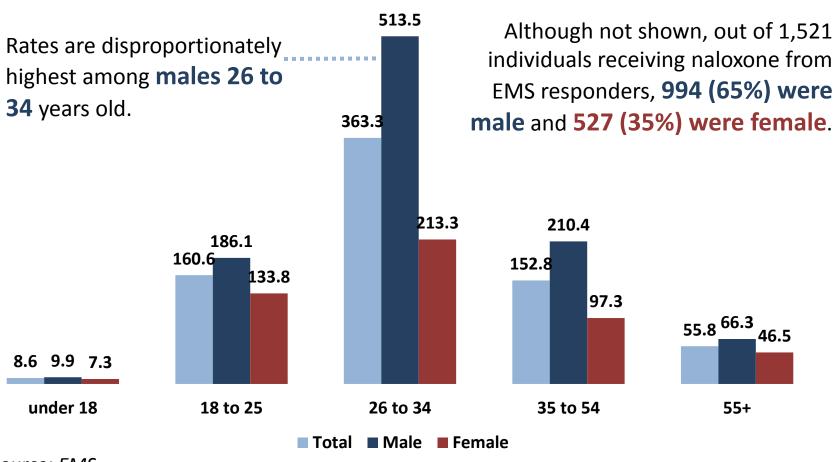
- 26 to 35 year olds observed a 32% increase in drug/med EMS overdose responses from 2015 (671) to 2016 (889).
- Mainers under 18 experienced a 20% decrease in drug/med overdose responses from 2013 (270) to 2016 (216).
- Alcohol related overdose responses among Mainers 55 and older increased by 52 percent from 2014 (479) to 2016 (728).

Number of EMS naloxone administrations and individuals dosed*: 2012 - 2016



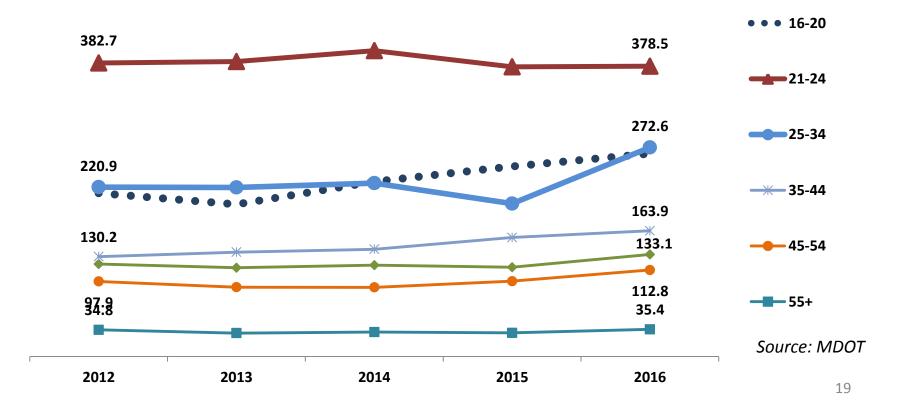


EMS Naloxone* administrations rate (per 100,000 residents), by gender and age: 2016



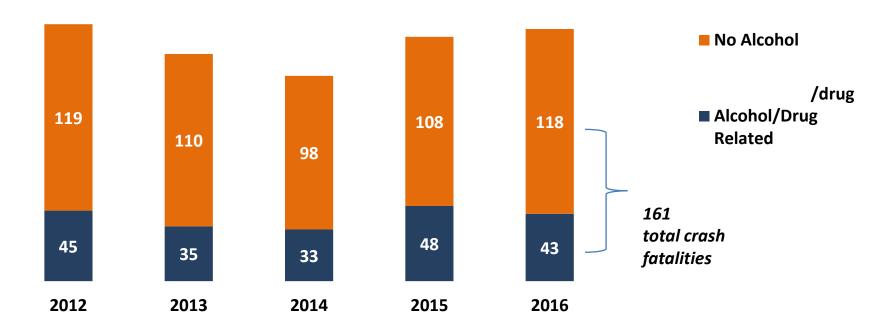
Alcohol/drug-related motor vehicle crash rate per 100,000 licensees, by age group: 2012–2016

21 to 24 year olds had the highest rate of **Alcohol/drug** related crashes for the past several years. In recent years, drivers **16 to 20** as well as drivers **25 to 34** have observed an increase in alcohol/drug related crashes.



- All Drivers

Number of fatal motor vehicle crashes, by whether they involved alcohol and/or drugs: 2012–2016



Source: MDOT, BHS

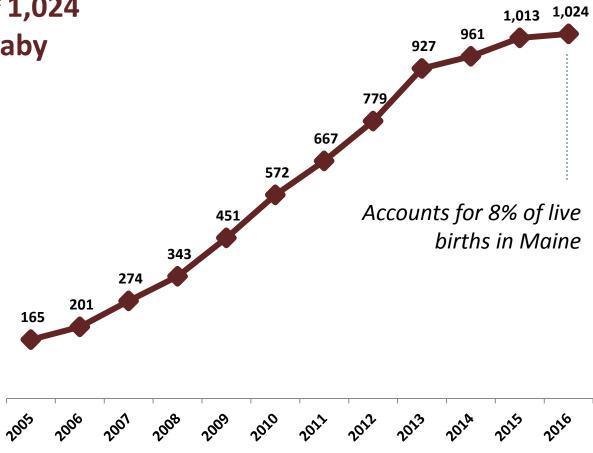
In 2016, more than **one in four** (27%) fatal motor vehicle crashes involved **alcohol and/or drugs**.

Number of drug affected baby (substance exposed infants) reports*: 2005-2016

In 2016, there were a total of **1,024** reports of **drug affected baby notifications.**

From 2005 to 2016, the number of drug affected baby notifications increased by **520%**. In recent years numbers have **stabilized**.

*This measure reflects the number of infants born in Maine where a healthcare provider reported to OCFS that there was reasonable cause to suspect the baby may be affected by illegal substance abuse or demonstrating withdrawal symptoms resulting from prenatal drug exposure (illicit or prescribed appropriately under a physician's care for the mother's substance abuse treatment) or who have fetal alcohol spectrum disorders.



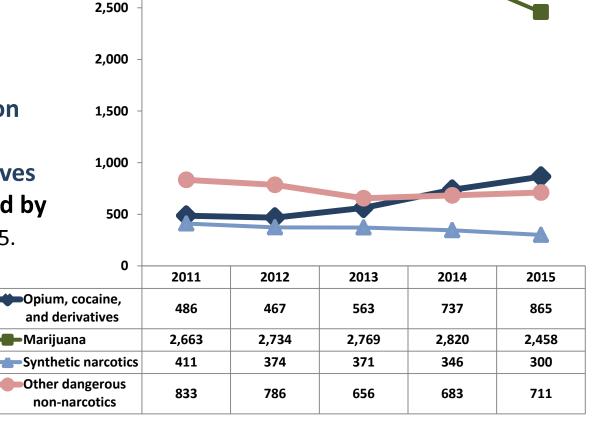
Source: Office of Child and Family Services (OCFS), Maine Automated Child Welfare Information System (MACWIS).

Drug offense arrests (all ages) for possession, by drug type: 2011–2015

3,000

- Arrests for possession of marijuana decreased by 13% from 2014 to 2015.
- Arrests for possession related to opium, cocaine and derivatives (e.g., heroin) increased by 85% from 2012 to 2015.

Source: DPS/Uniform Crime Report

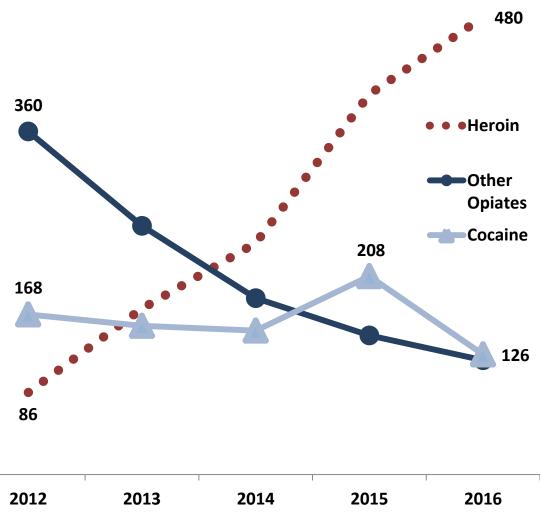


MDEA drug trafficking investigations, by drug type: 2012–2016

In 2016, the majority of MDEA trafficking investigations involved heroin and have more than quintupled since 2012.

Investigations related to other opiates (e.g., prescription opiates) decreased by 65% from 2012 to 2016

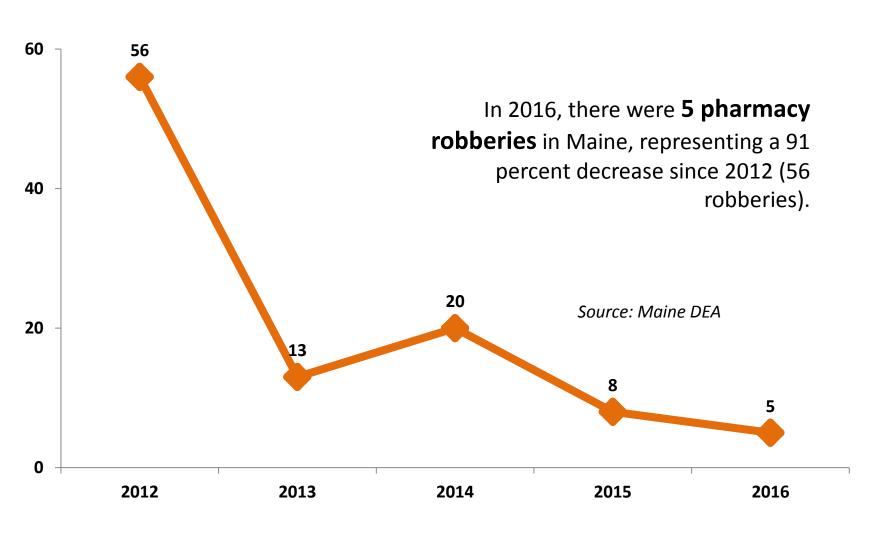
Source: Maine DEA



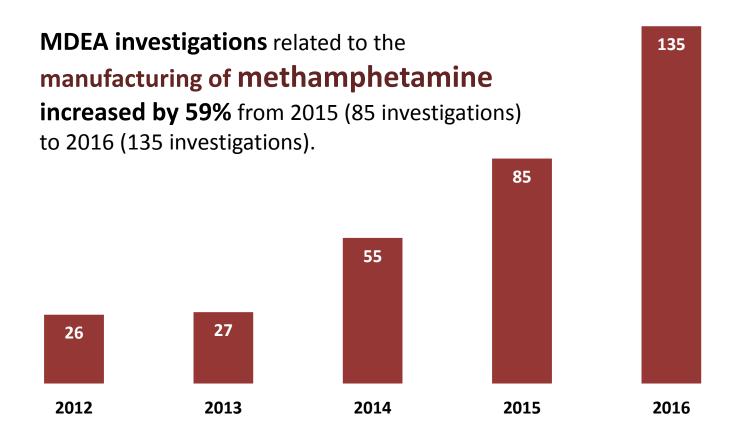
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2012 2013 2014 2015 2016

Number of pharmacy robberies in Maine: 2012–2016



MDEA methamphetamine manufacturing investigations: 2012–2016



Source: MDEA

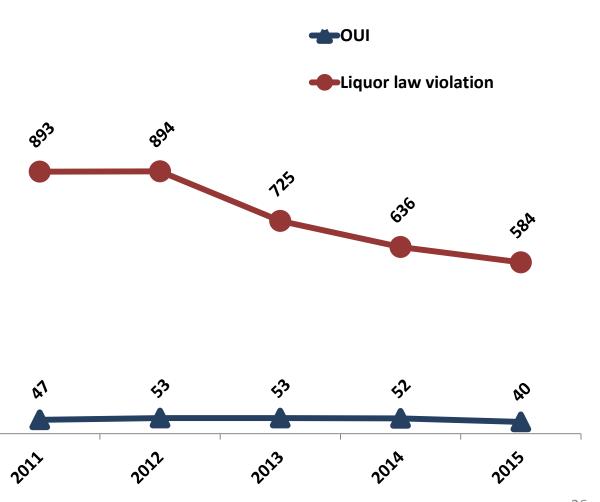
Juvenile arrests (<18 years old) related to alcohol, by arrest type: 2011–2015

Juvenile (under 18) liquor law violations have decreased by more than a third from 2012 to 2015.

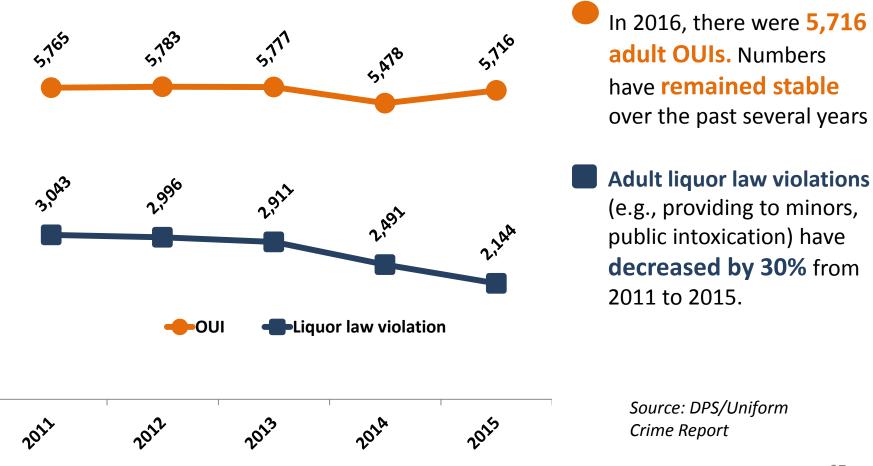
▲ Juvenile OUI arrests
have remained
relatively stable over
the past several years.

Source: DPS/Uniform

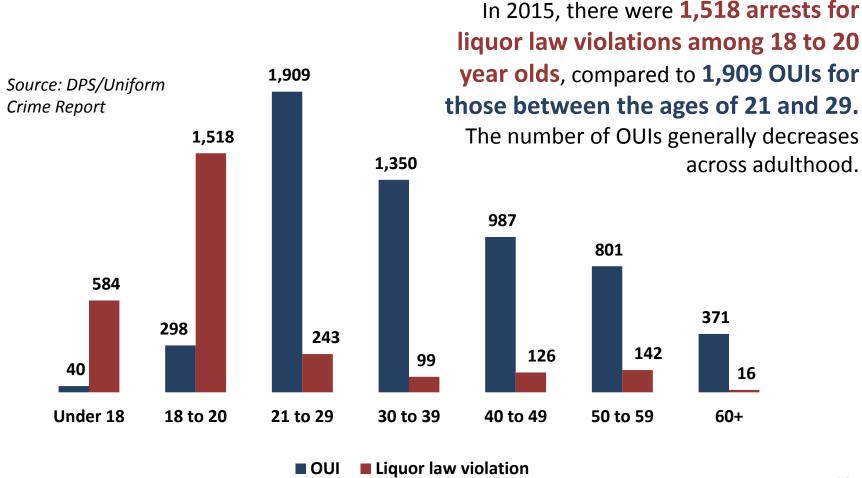
Crime Report



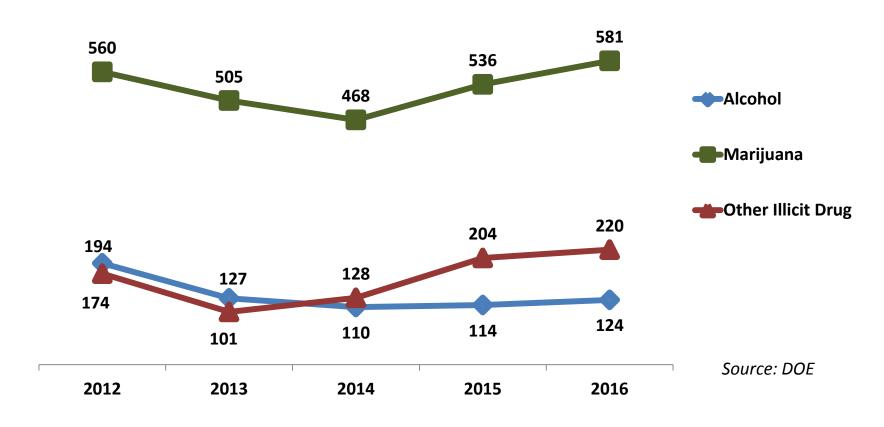
Adult arrests (18+ years old) related to alcohol, by arrest type: 2011–2015



Arrests related to alcohol, by age group: 2015



Drug and alcohol related school suspensions, by substance type: 2012-2016*



From 2014 to 2016, Marijuana related school suspensions increased from 468 to 581, illicit drug related suspensions increased from 128 to 220 and alcohol school suspensions remained stable.

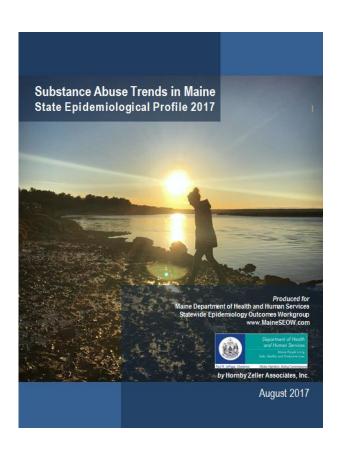
www.MaineSEOW.com

Summary

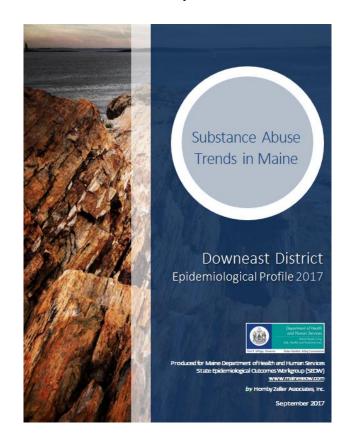
- In recent years, consequences arising from synthetic opiates have declined as those related heroin and other non-pharmaceutical opioids have risen steadily.
- The shift to more potent and volatile opioids has had a major impact on overdoses, crime, health, and families in Maine.
- Drugs such as methamphetamine, cocaine, and other potentially addictive and dangerous prescription drugs have had a progressively negative impact in Maine.
- Progress has been made in reducing liquor law violations among youth and adults.
- Younger adults 18 to 35 are disproportionately affected by substance use.
- As Maine and the Northeast confront the opiate/opioid epidemic, it's critical to monitor other emerging trends as well.

Additional Resources 2017 State and Community Profiles

State Profile



Community Profiles



Factsheets and reports can be found <u>www.maineseow.com</u> within "additional resources"

Additional Resources: 2017 Factsheets

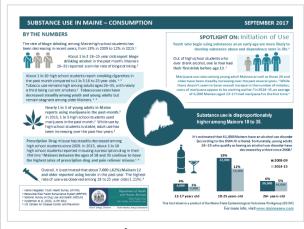
Consequences

SUBSTANCE ABUSE IN MAINE – CONSEQUENCES SEPTEMBER 2017 BY THE NUMBERS SPOTLIGHT ON: Non-pharmaceutical Fentanyl MDEA drug trafficking investigations involving heroin nearly doubled The high number of fatal drug overdoses in Maine continues to be driven by from 2014 to 2016, while those related to synthetic opiates decreased by non-pharmaceutical (illicitly manufactured) fentanyl: a synthetic opioid a third. Investigations related to cocaine remained fairly stable.² similar to heroin or morphine, but 50 to 100 times more potent.6 It is often sold as a powder; mixed with or substituted for heroin; or in tablet form. MDEA methamphetamine manufacturing investigations more than doubled from 2014 to 2016. In 2016, 126 methamphetamine In 2016, there were 376 overdose deaths due to drug use in Maine; a 38 percent increase since 2015. The majority of labs/dump-sites were found by the MDEA; representing a overdose deaths were related to illicit drugs; almost 2 in 5 125 percent increase since 2015 (56 labs/dump-sites).1 involved heroin/morphine, and nearly a third involved non-In 2016, there were 1,024 reports to Child Protective Services regarding pharmaceutical fentanyl.7 drug-affected babies (substance-exposed infants); this accounts for Adults aged 26-35 had the highest rate of deaths due to substance abuse or 8% of live births in Maine.2 Fortunately, in recent years, the rate of overdose during 2016, followed closely by those aged 36-49. Substance drug-affected baby reports has begun to stabilize.2 abuse and overdose death rates for adults between the ages of 18 and 35 have seen a steady increase for the past several years. From 2014 to 2016, the number of naloxone (narcan) administrations given by EMS responders more than doubled.3 Rates are As Maine and the Northeast confront the highest among males 26 to 34 years old.3 opiate/opioid epidemic, it's critical to Drug/medication overdoses EMS responses are most monitor other emerging trends as well. common among those between the ages of 26 and 35, as well as among those 18 to 25.3 In 2016, over half of primary treatment admissions were In 2016, drivers between the ages of 21 and 24 had the related to opioids or opiates. More than one third were highest alcohol/drug-related crash rates.4 In 2016, about related to alcohol.6 1 in 4 of all fatal motor vehicle crashes involved alcohol/drugs.4 Marijuana-related school suspensions increased by 25% from Alcohol 2014 (468) to 2016 (581). Suspensions involving all other illicit ■ Heroin/Morphine drugs observed a 72% increase from 2014 (128) to 2016 (220), while alcohol suspensions remained stable at 124 in 2016.3 23% Other Opiates and Synthetics Marijuan a/Hashish/THC 1-Maine Drug Enforcement Agency 8 National Institute on Drug Abuse 2 Office of Child and Family Services 9/Web Infrastructure Treatment System Other 3 Emergency Medical Services 4 Bureau of Highway Safety 4 Maine Department of Education

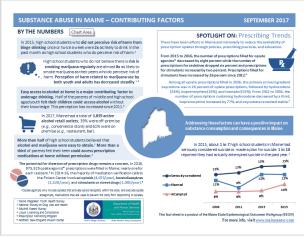
⁶ Dr. Sorg, Office of Chief Medical Examiner

7. Office of Data, Research, and Vital Statistics

Consumption/Prevalence



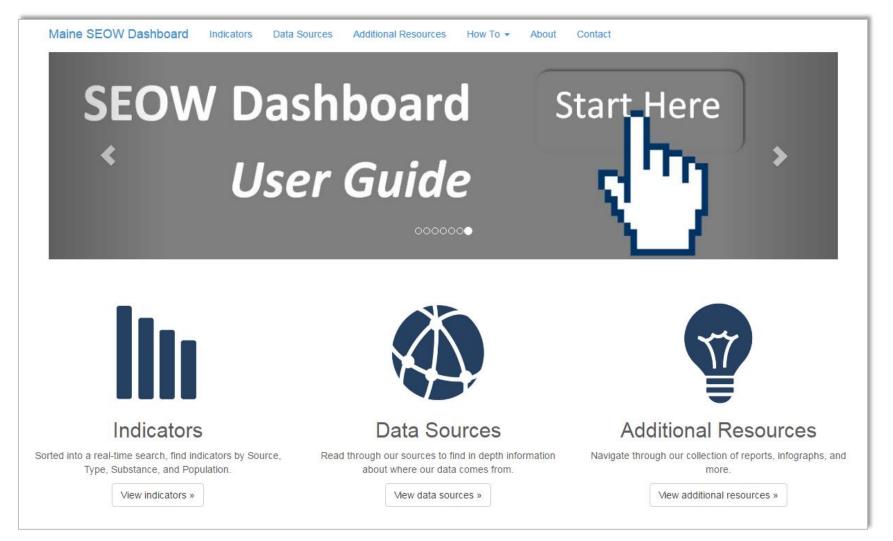
Contributing Factors



This fact sheet is a product of the Maine State Epidemiological Outcomes Workgroup (SEOW)

For more info, visit www.maineseow.com

Additional Resources: Data Dashboard



Tomorrow's Webinar

<u>Part 3</u>: Contributing Factors of Substance Use (Friday, October 20th @ 10am)

Steps to join webinar(s):

- 1. Click the following link: http://stateofmaine.adobeconnect.com/seowseries2017/
- 2. For Audio: After clicking the link above you will be prompted with audio options. Please select the dial out option (receive a call from the meeting) and enter your phone number. You will then receive a call to join the audio portion of the meeting.

Contact

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