

# Welcome

We will begin at 12pm **central time**.

While you wait, check out our meeting website:

[bit.ly/mo-summit](https://bit.ly/mo-summit)

agenda / participant list / briefing materials

Slides will be posted to this site after the meeting.

# WELCOME

## MO Pharmaceuticals Stewardship Summit

### Day 1

Missouri Product Stewardship Council

*October 14-15<sup>th</sup>, 2020*



# Thank You



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES



# Your Facilitators

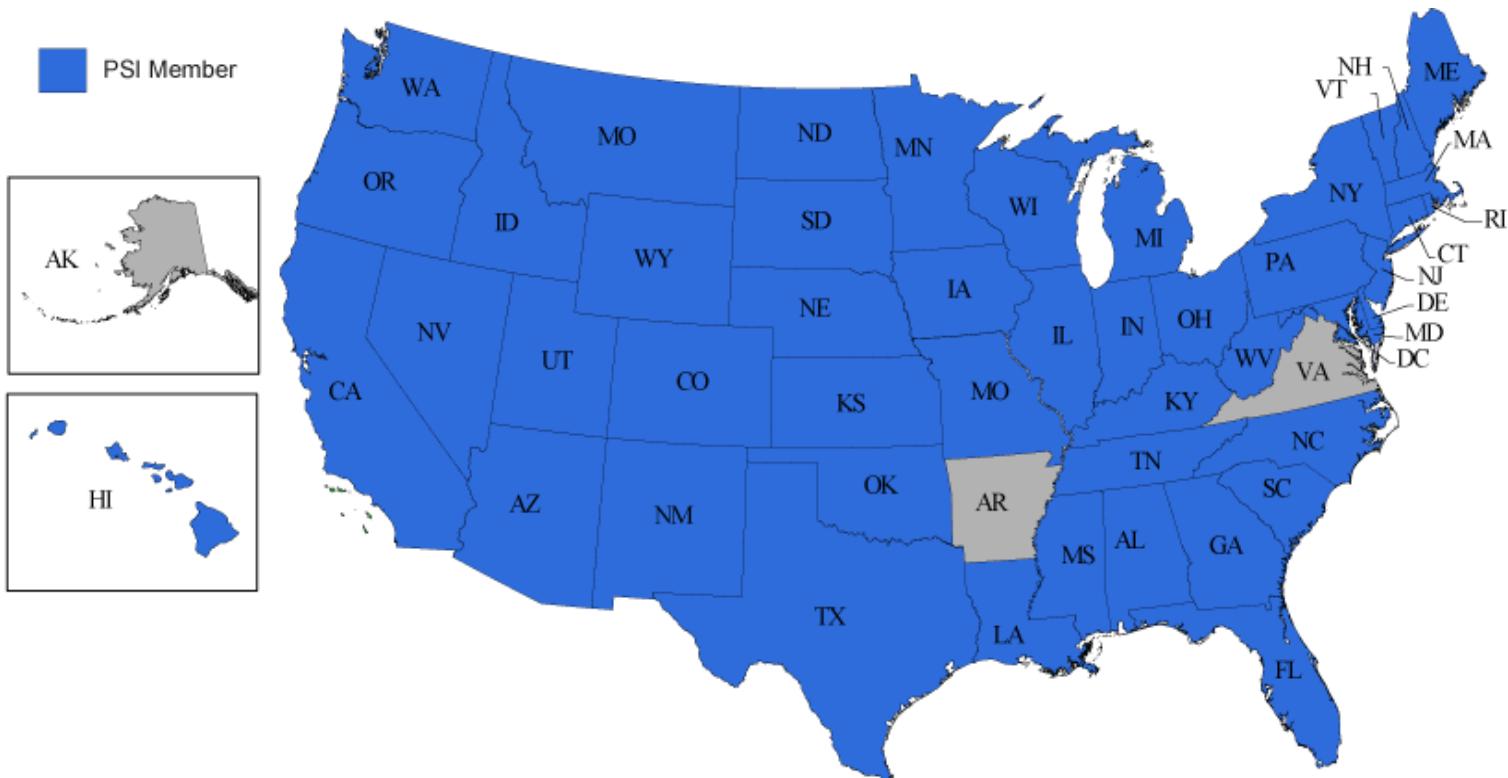


Scott Cassel, MCP  
*Founder & CEO, PSI*



Rachel Perlman, PhD  
*Senior Associate for Policy & Programs, PSI*

# Product Stewardship Institute



*Building the capacity for product stewardship and EPR in the U.S. to reduce the health & environmental impacts of products across their lifecycle since 2000*

- Members
- Partners
- Advisory council
- State product stewardship councils (PSCs)
- 20+ products

# Meeting Goals

**Goal: Build support for a statewide pharmaceuticals stewardship program by finding consensus among stakeholders on a plan for Missouri**

- (1) Define the problems caused by leftover drugs
- (2) Identify opportunities, barriers, and potential solutions for implementing a pharmaceuticals stewardship program
- (3) Develop specific next steps that stakeholders can take collaboratively toward implementing a statewide pharmaceuticals stewardship program.

# Agenda, Part 1

## Day 1: Oct 14, 12pm – 4pm CT

<b>12:00 – 12:15</b>	Welcome & Overview
<b>12:15 – 1:00</b>	Problems Related to Pharms Management
<b>1:00 – 2:00</b>	Pharmaceutical Take-back Programs (Part 1)
<b>2:00 – 2:15</b>	Break
<b>2:15 – 3:15</b>	Pharmaceutical Take-back Programs (Part 2)
<b>3:15 – 3:30</b>	Break
<b>3:30 – 4:00</b>	Optional Virtual Networking (break out rooms)

# Agenda, Part 2

Day 2: Oct 15, 12pm – 3:30pm CT

12:00 – 12:15	Welcome & Day 1 Recap
12:15 – 1:15	Education – Facilitated Discussion
1:15 – 1:30	Break
1:30 – 3:15	Laying the groundwork for pharmaceuticals stewardship in Missouri – Facilitated Discussion
3:15 – 3:30	Next Steps – Facilitated Discussion
3:30	Adjourn

# Importance of Safe Pharmaceuticals Management

- Opioid Epidemic: In 2018, there were 1,132 opioid overdose deaths in Missouri
- Seven out of 10 people who abuse prescription drugs get them from friends or family, often out of the home medicine cabinet
- Flushing leftover medicines sends them into our rivers, streams, and waterways. Wastewater treatment plants cannot remove them.
- Chemicals from medicines can end up in our drinking water, and have been shown to have harmful effects on aquatic life

# MISSOURI PRODUCT STEWARDSHIP COUNCIL

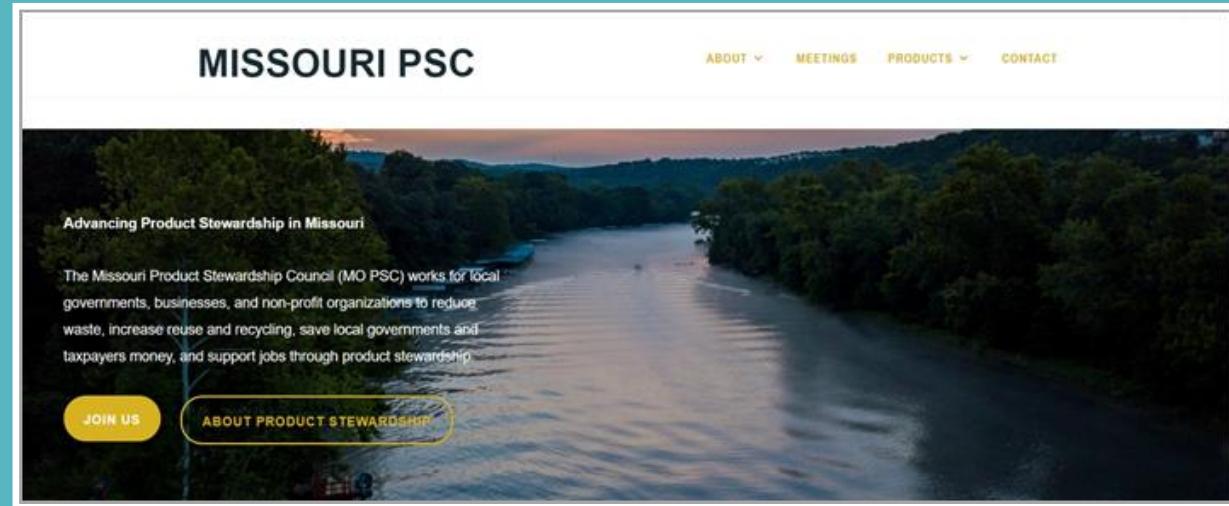
Lisa McDaniel

MARC Solid Waste Management District

# WHO WE ARE

An informal cooperative effort among solid waste districts, non-profit organizations, municipalities and state government agencies to build capacity for product stewardship in Missouri.

[www.MissouriPSC.org](http://www.MissouriPSC.org)



## OUR OBJECTIVES

- Provide a forum for the exchange of ideas and information regarding existing and proposed product stewardship programs;
- Provide leadership on product stewardship initiatives in the state;
- Educate decision makers on the benefits of product stewardship; and
- Develop and recommend product stewardship policies and educational tools.



**MISSOURI PRODUCT  
STEWARDSHIP COUNCIL**

Batteries ↗

Carpet ↗

Construction & demolition waste ↗

Electronics ↗

Fluorescent lamps ↗

Furniture ↗

Gas cylinders ↗

Household hazardous waste (HHW) ↗

Mattresses ↗

Medical sharps ↗

Packaging and printed paper ↗

Paint ↗

Pesticides and fertilizers ↗

Pharmaceuticals ↗

Phone books ↗

Plastic films (including agricultural plastics) and bags ↗

Smoke detectors ↗

Solar panels ↗

Textiles (clothing) ↗

Tires ↗

Other 1 (specify in notes) ↗

Other 2 (specify in notes) ↗

## PRODUCT RANKING

# Missouri PSC Priorities Survey

The next question asks you about priorities for the PSC. Here are several criteria to keep in mind as you choose your top priorities:

- Cost to manage the waste
- Weight/volume of the material found in the solid waste stream
- Likelihood of success given factors specific to Missouri
- Resource value and recyclability
- Potential business development and job creation
- Current operational challenges in managing the waste, or lack of disposal options
- Potential lifecycle impacts on environmental and human health
- Potential impacts on producers and end users
- Cost to consumers (note that EPR shifts costs from taxpayers to buyers)

## PRODUCT SURVEY

# THE TOP TEN

Paint

Mattresses

Carpet

Electronics

Batteries

Tires

Plastic films  
and bags

Household  
hazardous  
waste

Pharma-  
ceuticals

Pesticides  
and  
fertilizers



PAINT

## PROGRESS TO DATE

- Opened dialog with American Coatings Association
- Paint management data:
  - Volume
  - Costs
- Fact sheet/website
- Gathering local support – grassroots effort
- Stakeholders meeting in June 2020
- Evaluating legislative options



MATTRESSES

## PROGRESS TO DATE

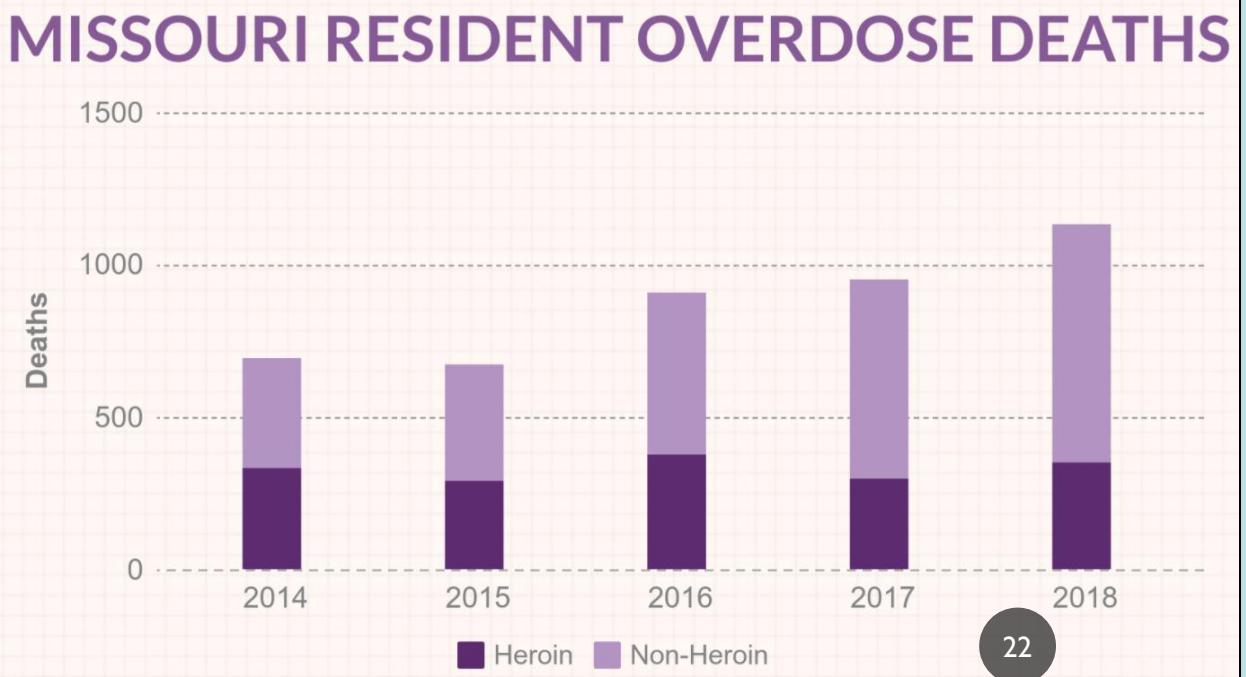
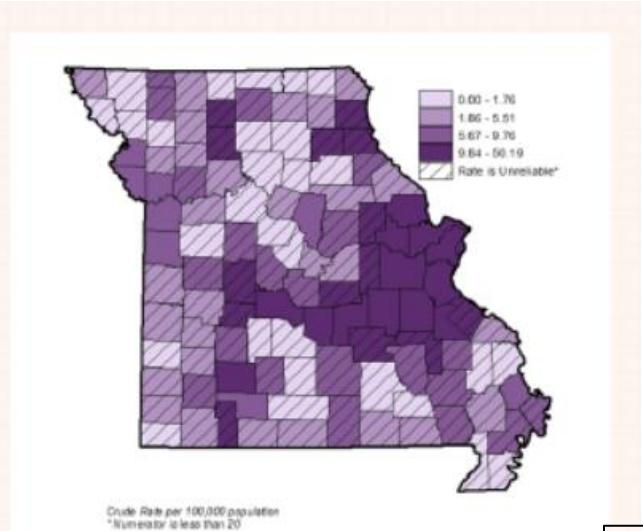
- Identifying recycling opportunities
- Sharing information
- Developing fact sheet



## PHARMACEUTICALS

# DEATHS DUE TO OPIOID OVERDOSES

2014 - 2018





## PROGRESS TO DATE

- Learning about education and drop-off options:
- Developed:
  - Fact sheet
  - Online map of drop-off locations
- Identifying external stakeholders
- Planning for a statewide meeting

## HOW TO GET INVOLVED

Sydney Harris | Sr. Associate for Policy & Programs |  
MO PSC Coordinator  
[sydneyh@productstewardship.us](mailto:sydneyh@productstewardship.us)

MOPSC Executive Committee:  
Lisa McDaniel, Dave Berger, Lelande Rehard,  
Barbara Lucks (SWAB Chair), Angie Gehlert (MORA)

# Problems Related to Pharms Management



# National Overview of Hazards

drug abuse  
accidental poisonings  
**health & safety**



aquatic impacts  
water quality  
**environmental health**



PRODUCT  
STEWARDSHIP  
INSTITUTE

# Pharmaceuticals and Poisonings

Amanda Ruback, MSN, RN, CSPI  
Community Outreach Coordinator  
October 14, 2020



A Program of SSM Health  
Cardinal Glennon

# Motivation for Safe Storage/Disposal

## Medication Leading Cause of Child Poisoning in U.S.

Report: About 60,000 Children Per Year Rushed to the Emergency Room After Getting Into Medications

By Cari Nierenberg



FROM THE WEBMD ARCHIVES

### A Pill Left Out, a Child's Life Lost: Maisie's Story a Warning to All Adults

April 3, 2020, at 9:00 a.m.

By Dennis Thompson



Medication Error Causes Child to Overdose on Methadone

### Adults Unintentionally Make It Easy for Young Children to Eat Dangerous Pills

Over half of kids poisoned by prescription pills got them after an adult removed safety packaging

### For Many Teens, Addiction Starts In the Medicine Cabinet

**'Nothing is childproof': Kids are overdosing on drugs adults leave out**

Deborah Yetter, Courier Journal Published 5:17 a.m. ET Nov. 15, 2018 | Updated 7:42 a.m. ET Nov. 19, 2018

# Missouri Poison Center

**MISSOURI**  
**POISON CENTER**  
**1-800-222-1222**

A Program of SSM Health  
Cardinal Glennon



Advanced Practice Pharmacists & Nurses who are certified as Specialists in Poison Information, clinically supervised by a board certified physician toxicologist

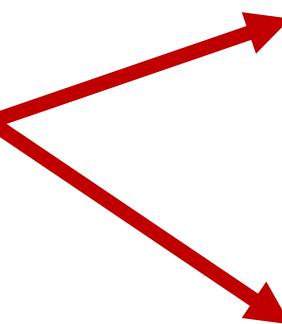


**MISSOURI**  
**POISON CENTER**  
**1-800-222-1222**

A Program of SSM Health  
Cardinal Glennon

# 2019 Facts At A Glance

Exposure cases:	55,712
Information calls:	<u>4,956</u>
Total:	60,688



**72% from general public**

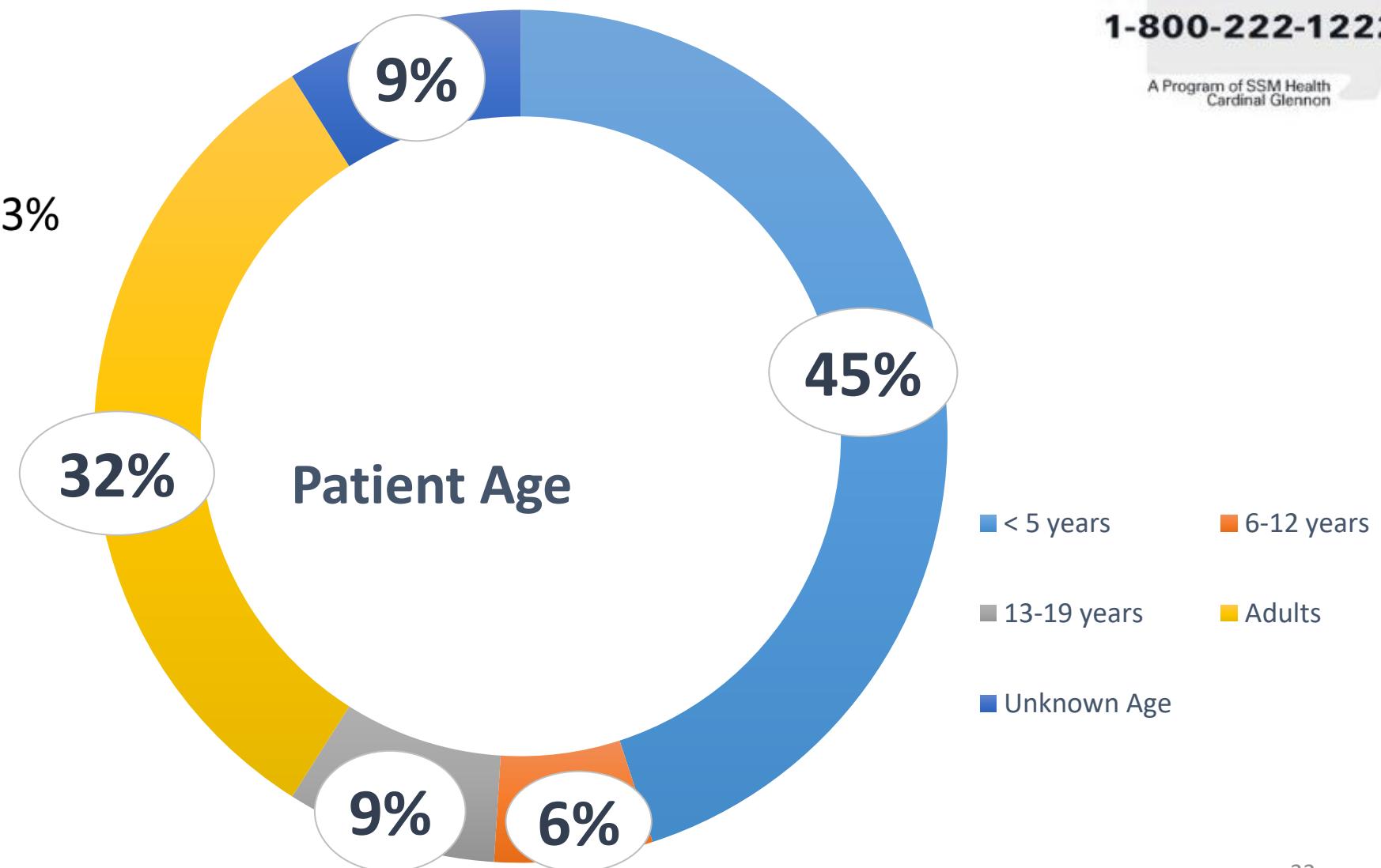
- Via toll-free telephone, text, web chat, TTY

**28% from health care**

- Physicians, Nurses
- Pharmacists, Dentists
- Nursing Home, Vets
- Emergency Medical Services
- Police

# Poisonings by Age

- Unintentional: 76%
- Intentional: 21%
- Adverse Reactions Misc: 3%



# Children are at Greater Risk



Hand to  
Mouth  
Behavior

Curiosity

Look-alikes

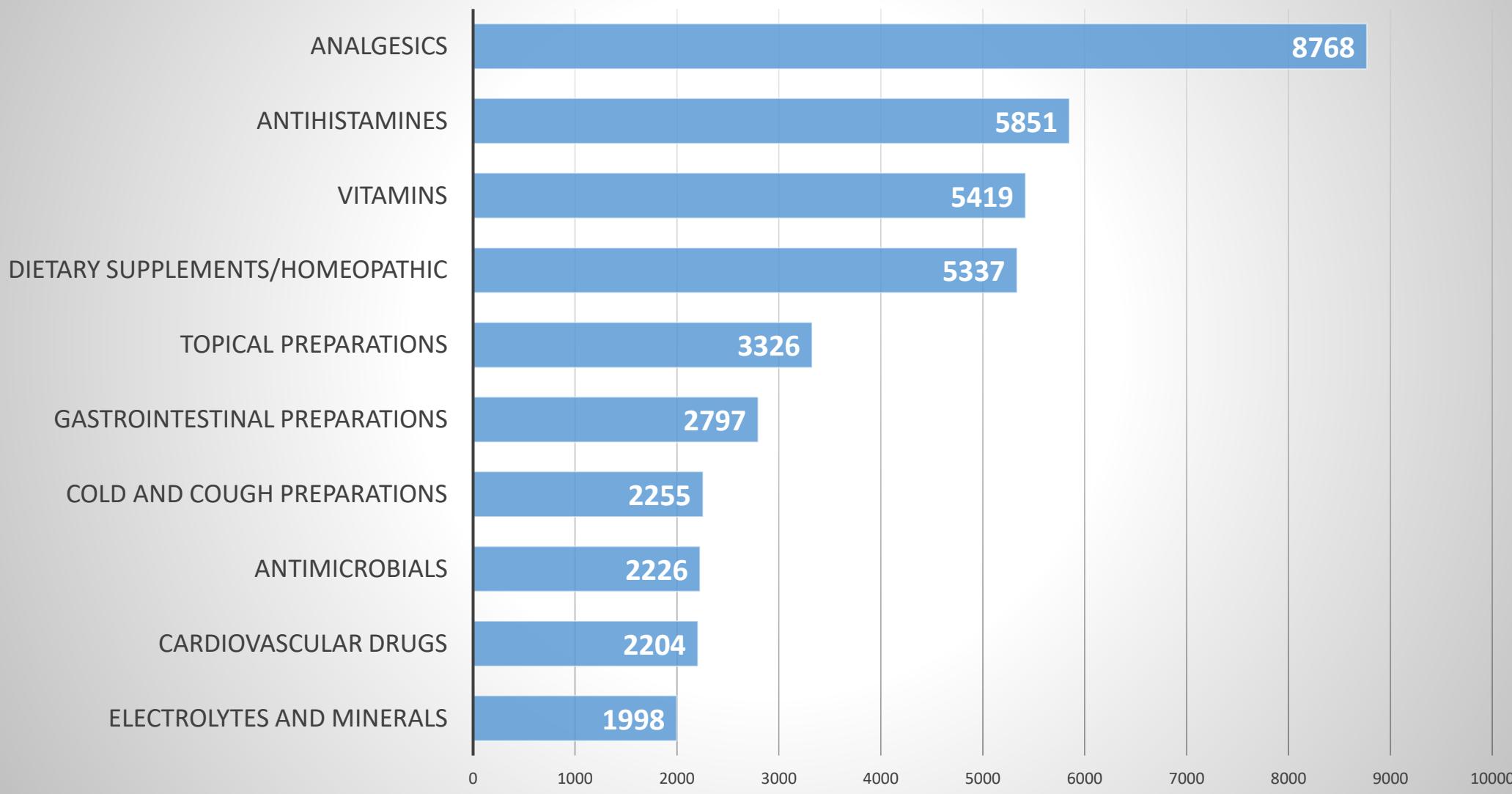
Imitation

**MISSOURI**  
**POISON CENTER**  
**1-800-222-1222**

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# Pharmaceutical Exposures in Children

<= 5 years from 2015-Current



# Deadliest Exposures Children Age 5 and Under

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POISON CENTER  
1-800-222-1222

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**1. Analgesics (pain relievers)**

**2. Stimulants & street drugs**

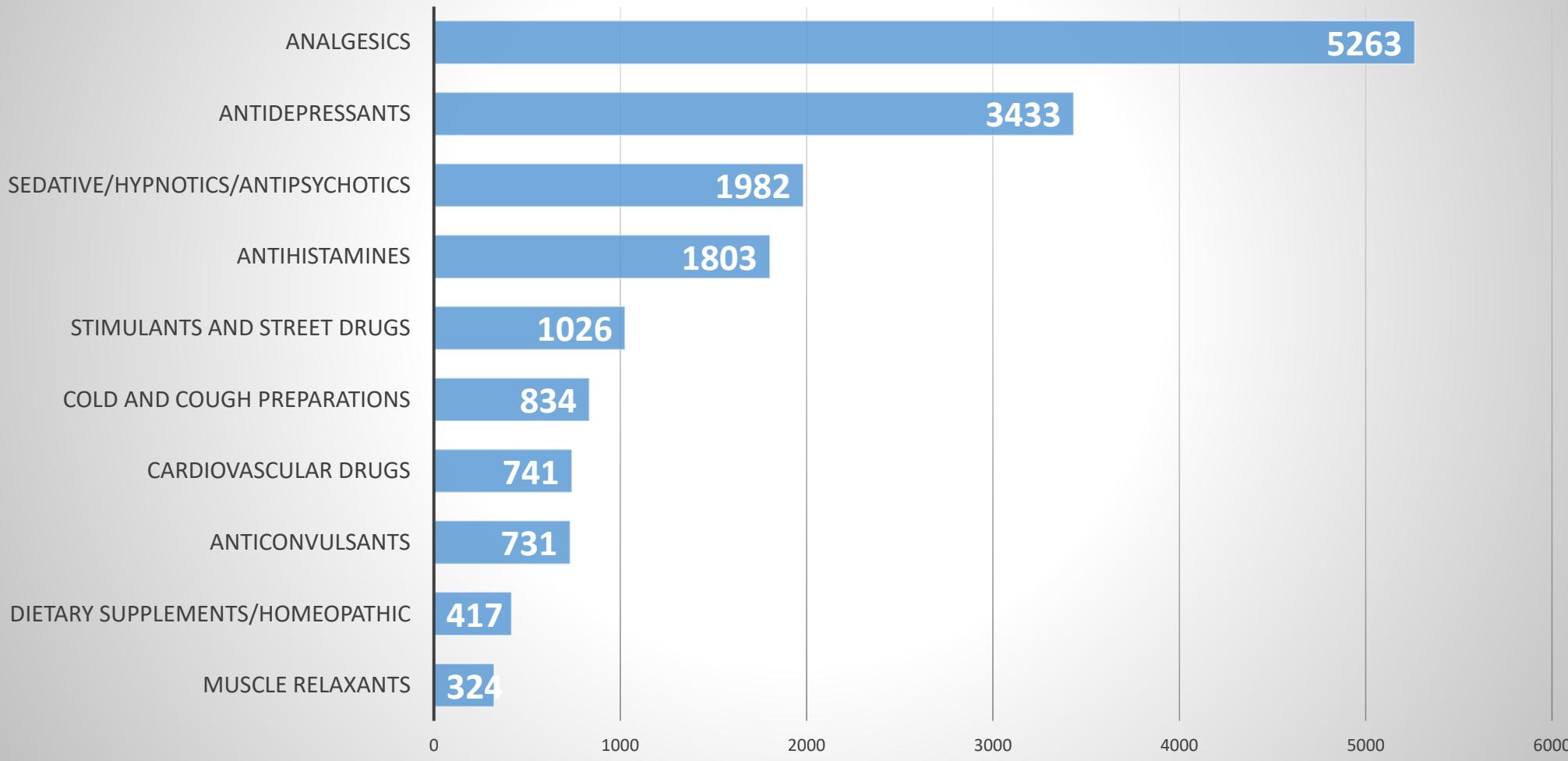
**3. Cough & cold medications**

**4. Cleaning products**

**5. Hydrocarbons**



## Intentional Pharmaceutical Exposures by Teens Age 12-18 Years from 2015-Current



# A Case of the Mistaken Identity

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POISON CENTER  
**1-800-222-1222**

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Cardinal Glennon



Glipizide >>> Glyburide

Celexa >>> Celebrex

Xanax >>> Zantac

Ropinirole >>> Risperidone

Dimenhydrinate >>> Diphenhydramine

Guanfacine >>> Guaifenesin

Bupropion >>> Buspirone



# Medication Mistakes and COVID



- Change in routine = Increased medicine mistakes
- More people are taking medicines
- Added stress and distraction
- Poor communication between parents/caregivers

# Safe Storage of Medication

- Always keep medicine in a medication container, ideally the original container.
- Keep medicine up, away and out of sight.
- Medications for different family members should be kept separately.
- If it needs to be stored in a fridge, make sure to keep it separate from food.



# Medicine and Kids

- Remember: there is no such thing as CHILD-PROOF.
- Take your own medicine where children can't watch.
- Don't call medicine candy.
- Use the measuring devices that comes with the medicine.
- Teach children to ask before touching or tasting anything that they find on their own.



# A Call to Action...

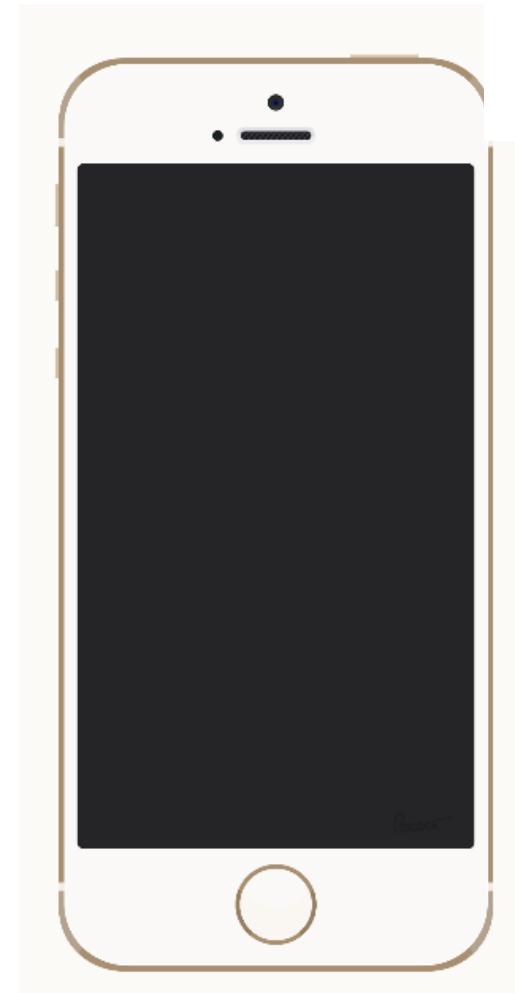
Save the number as a contact in your phone:

Poison Help Line:

1-800-222-1222

Health Care Professionals:

1-888-268-4195



# Thank You!



A Program of SSM Health  
Cardinal Glennon

**Amanda Ruback, MSN, RN, CSPI**  
Community Outreach Coordinator  
Missouri Poison Center  
Phone: 314-612-5719  
[Amanda.Ruback@ssmhealth.com](mailto:Amanda.Ruback@ssmhealth.com)  
[missouripoisoncenter.org](http://missouripoisoncenter.org)

# Proper Pharmaceutical Disposal: The Clean Water Utility View

Cynthia A. Finley, Ph.D.  
Director, Regulatory Affairs  
National Association of Clean Water Agencies (NACWA)

Missouri Product Stewardship Council  
Virtual Pharmaceuticals Stewardship  
Stakeholder Meeting  
October 14, 2020

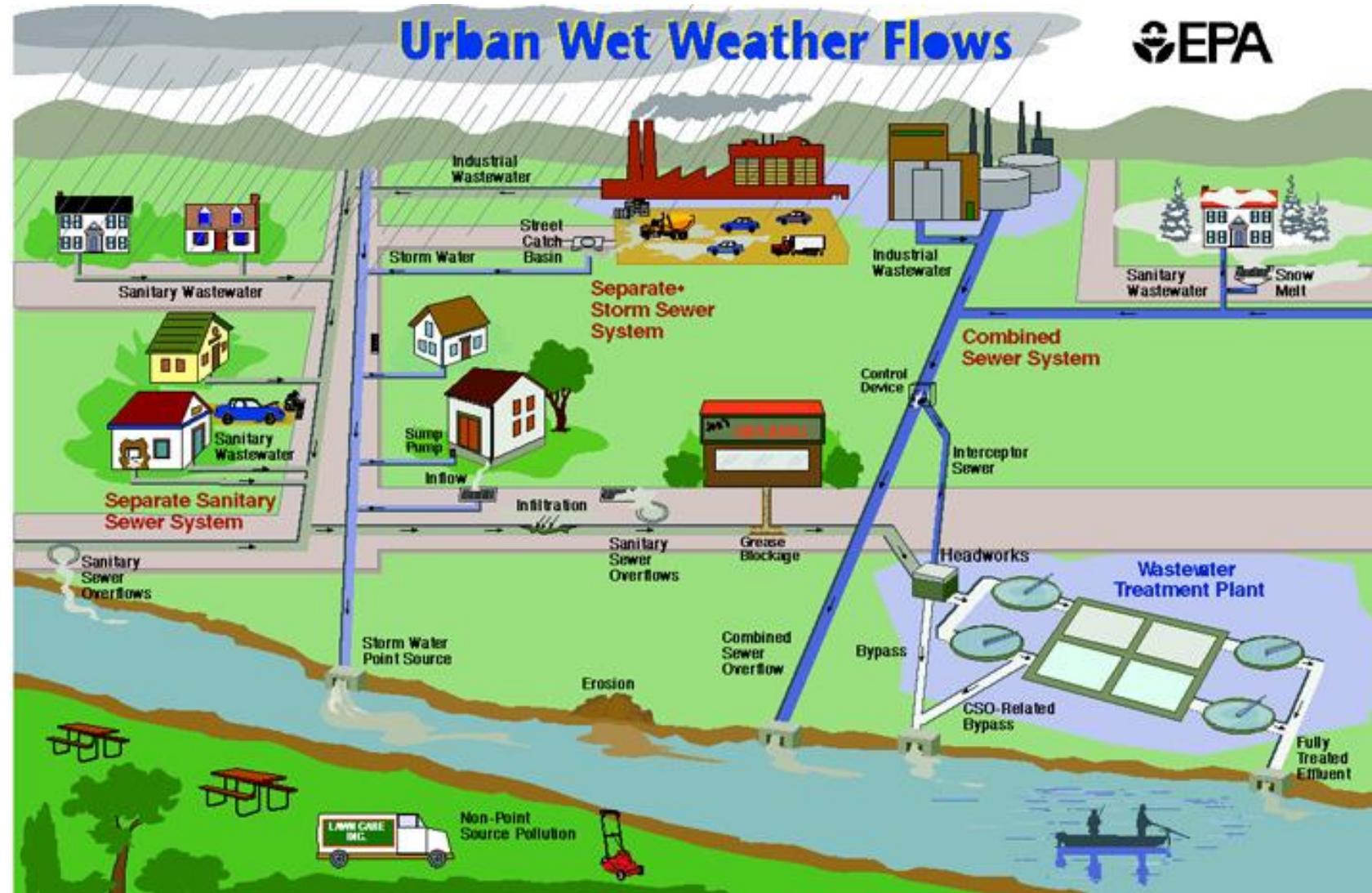


# NACWA: A Clear Commitment to Our Nation's Waters

- National trade association for public wastewater & stormwater utilities
- Represent over 300 public utilities of all sizes from around the country
- Leader in legislative, regulatory and legal advocacy on the full spectrum of clean water issues



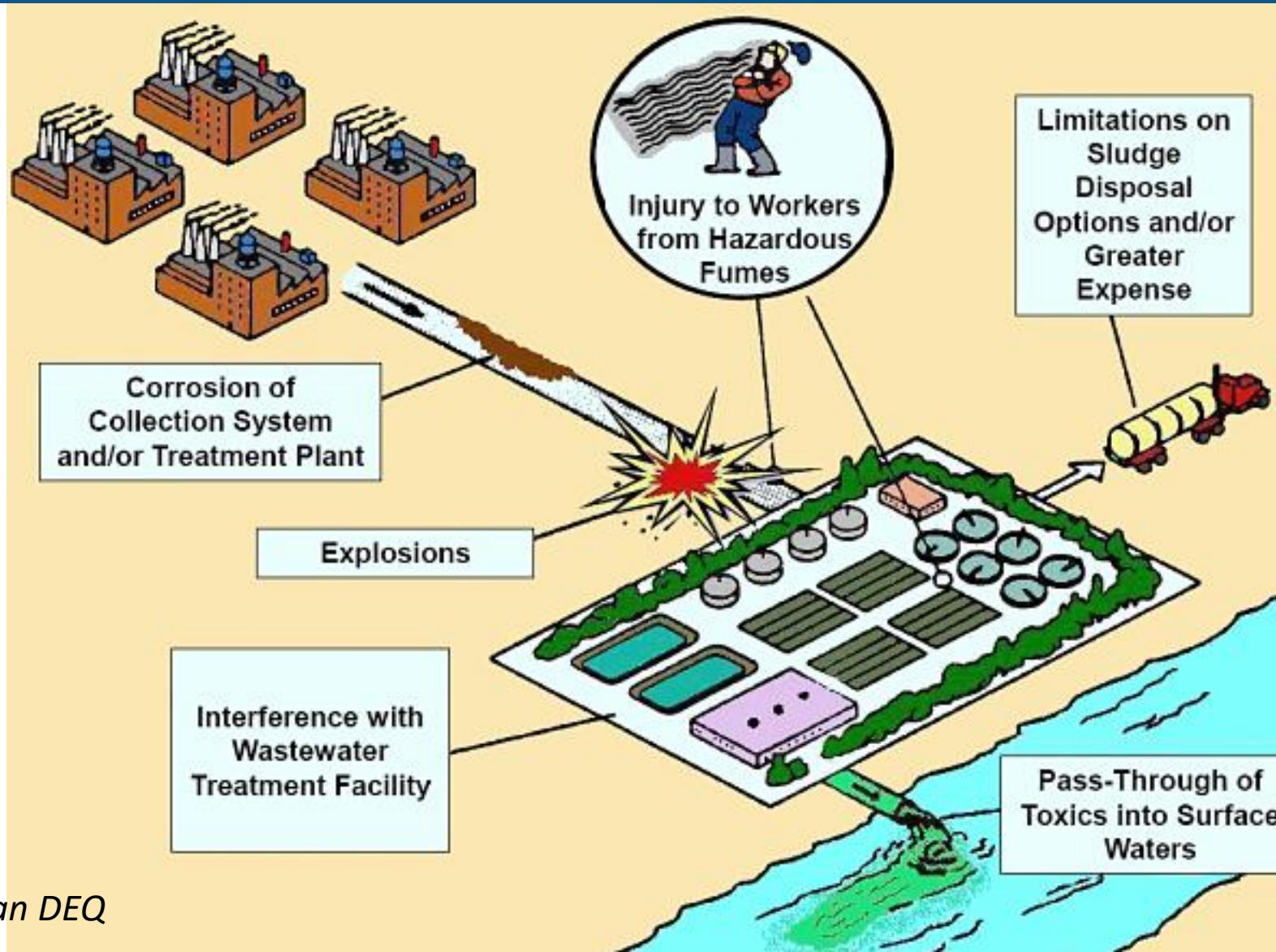
# Publicly Owned Treatment Works (POTWs)



# 1982 Louisville, Kentucky Sewer Explosion



# POTW Pretreatment Programs



# Beneficial Reuse of Water Resources

## Biosolids Management



Incineration

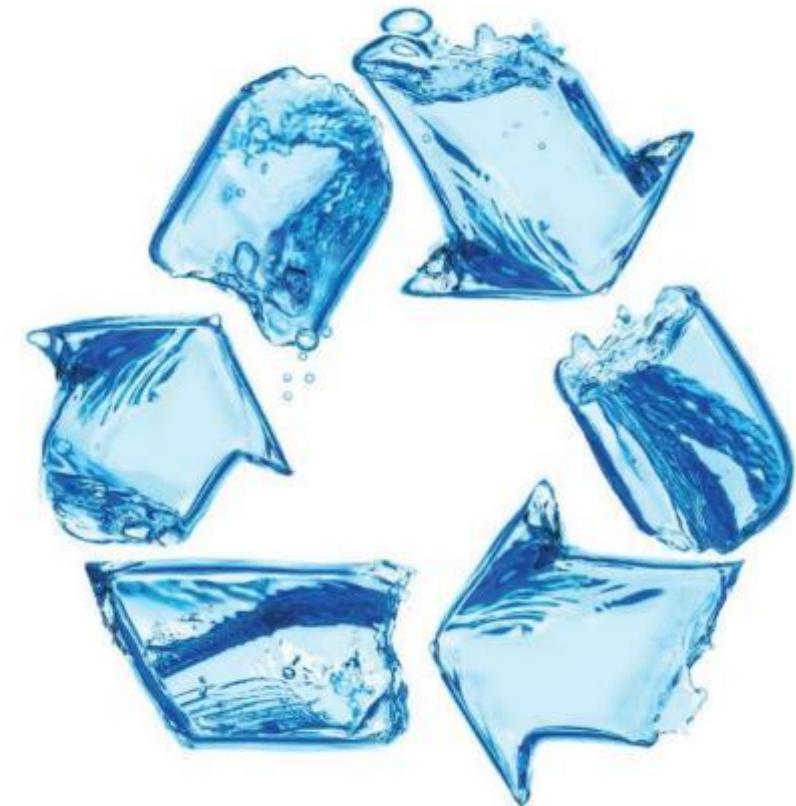


Landfill



Land Application

## Water Reuse



# What Gets Flushed



The first flushable pregnancy test



# What Gets Flushed or Drained



# Aquatic Environment



# Pharmaceuticals in Water

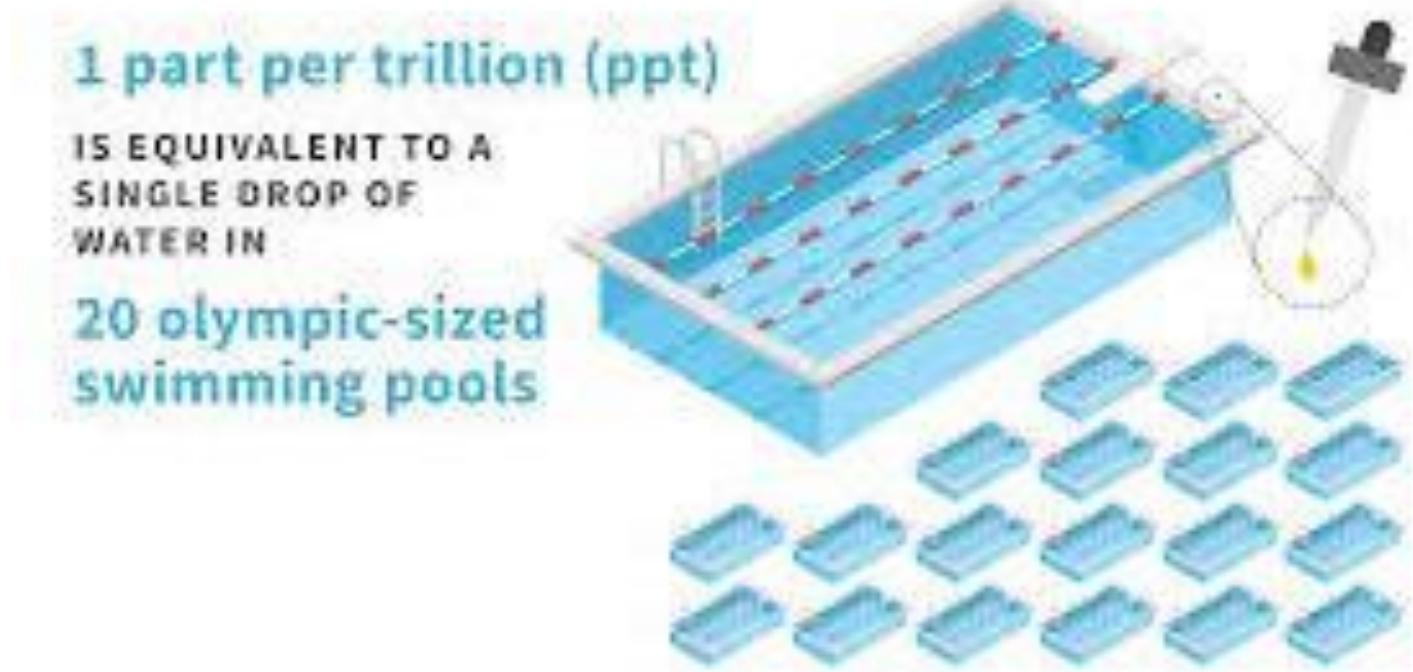


# What are the Risks?

Example concentrations:

- Ibuprofen: up to 92 ng/L
- Erythromycin: up to 17 ng/L
- Spiramycin: up to 68 ng/L
- Furosemide: up to 88 ng/L

1 ng/L = 1 part per trillion (ppt)



*Example concentrations from*  
<https://www.tandfonline.com/doi/full/10.1080/02772241003614320>

# Messaging from Clean Water Agencies



# Mixed Messages: The FDA Flush List



Search Menu

IN THIS SECTION: Disposal Of Unused Medicines: What You Should Know

← Disposal of Unused Medicines: What You Should Know

## Drug Disposal: FDA's Flush List for Certain Medicines

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If you received specific disposal instructions from your healthcare provider (e.g., doctor, pharmacist) for your unused or expired medicine, you should follow those instructions to dispose of your medicine. The best disposal option is to find a [drug take back location](#), which may be found in retail, hospital, or clinic pharmacies; and/or law enforcement facilities.

If you don't have a drug take back location near you, check the FDA's flush list to see if your medicine is on the list. Medicines on the flush list are those (1) sought-after for their misuse and/or abuse potential and (2) that can result in death from one dose if inappropriately taken. If children, adults, or pets in your home accidentally or intentionally ingest, touch, misuse, or abuse a medicine on the

“If you don't have a drug take back location near you, check the FDA's flush list to see if your medicine is on the list.... An example of a medicine on the flush list is fentanyl transdermal system (also known as a fentanyl patch), which contains an opioid.”

# NACWA Advocacy Priorities



visit [www.nacwa.org/toilets](http://www.nacwa.org/toilets)

**TOILETS ARE  
NOT TRASHCANS™**

*Only Flush the 3 Ps: Pee, Poop, and Toilet Paper*

- Continue public education on proper drug disposal
- Support product stewardship legislation and initiatives



[www.flush3p.org](http://www.flush3p.org)

# Thank you

Cynthia A. Finley, Ph.D.

Director, Regulatory Affairs

National Association of Clean Water Agencies (NACWA)

[cfinley@nacwa.org](mailto:cfinley@nacwa.org) | 202-533-1836



# Federal Hazardous Waste Pharmaceutical Management



Marcus Rivas, US EPA Region 7  
for Missouri Pharmaceutical Stewardship Workshop  
October 2020



# “Pharma” Rule

- ▶ BRIEF background
- ▶ Sewer prohibition
- ▶ Drug Take Backs and Collection Programs
- ▶ Missouri (MDNR) exploring picking this up



# Pharma Rule

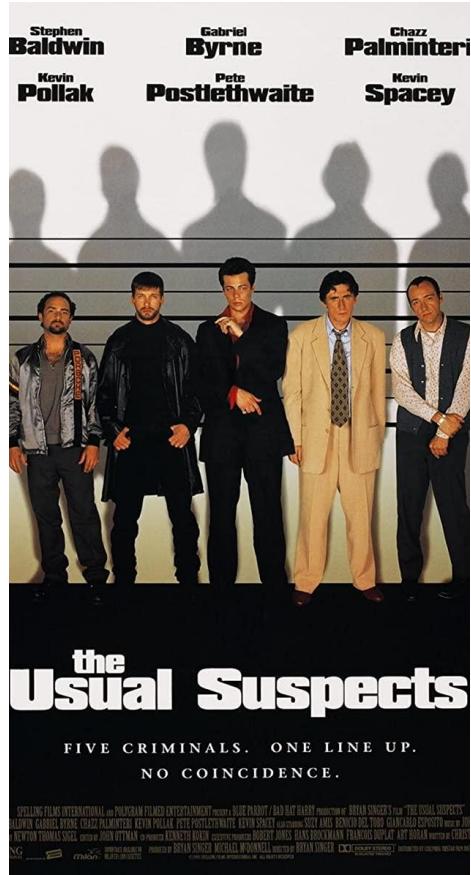
- ▶ Better fit for healthcare sector
- ▶ Eliminate sewerering pharmaceuticals
- ▶ Help ensure best management



# Pharma Rule



# Pharma Rule



# Pharma Rule

## Sewer prohibition

- ▶ Effective for healthcare facilities
- ▶ Coordinated with Drug Enforcement Agency (DEA)
- ▶ Ripple effect to those not regulated



# Pharma Rule



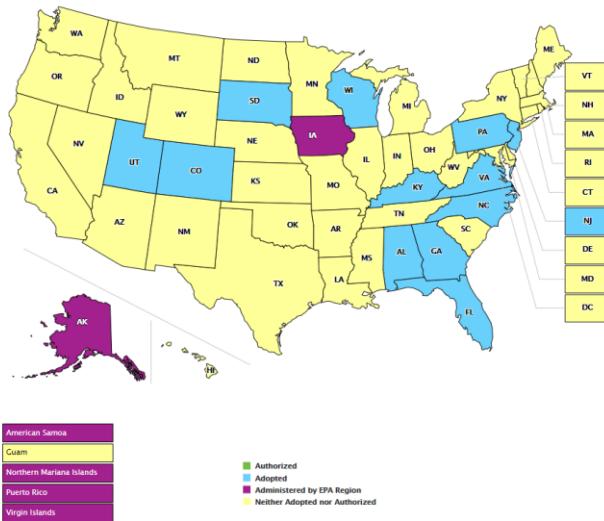
# Pharma Rule

- ▶ Conditional exemptions for household hazardous waste pharmaceuticals and DEA collection programs

Please – **no onsite burning**. Don't put yourselves, your fellow law enforcement employees, your communities, or the environment at risk. Use a lawfully permitted unit or mail-back program.



# Pharma Rule



See notes for image source

# Pharma Rule



**Saturday, October 24  
10:00 am - 2:00 pm**

**Inquiries can also be made at  
1-800-882-9539**

[https://www.deadiversion.usdoj.gov/drug\\_disposal/takeback/index.html](https://www.deadiversion.usdoj.gov/drug_disposal/takeback/index.html)

# Pharma Rule

- ▶ EPA – Marcus Rivas, 913.551.7669  
or [Rivas.Marcus@epa.gov](mailto:Rivas.Marcus@epa.gov)
- ▶ EPA's [Wheeler to Law Enforcement Partners](#)
- ▶ EPA on [drug take-back events/programs](#)



# End Presentation



**THANK YOU  
FOR YOUR  
ATTENTION**





# Pharmaceutical Take-back Programs (Part 1)



**Scott Cassel**  
**PSI**

# Drug Take-back Programs



On-site  
receptacles



Collection  
events



Mail-back  
envelopes

# Drug Take-Back Approaches + Funding



## Voluntary Programs

- Government-funded programs
- Retail pharmacy initiatives
- Law enforcement initiatives

## Legislation

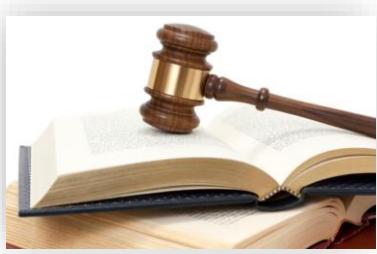
- Laws requiring program funding from pharmaceutical industry with government oversight

# Drug Take-Back Key Stakeholders

- Government agencies (health, waste, env)
- Pharmacies
- Public health agencies
- Waste managers/recyclers
- Wastewater treatment
- Environmental advocates
- Reverse distributors
- Waste-to-energy facilities
- Manufacturers
- Medical community
- Drug abuse/recovery centers
- Poison control
- Universities/ext. programs
- Local drug abuse prevention/safe med disposal coalitions, etc.
- Law enforcement



# Challenges



**Regulatory barriers**  
at the local, state, and federal level



**Sustainable funding**  
for drug take-back



# What does the **DEA Rule allow?**

[www.deadiversion.usdoj.gov/drug\\_disposal/index.html](http://www.deadiversion.usdoj.gov/drug_disposal/index.html)

- Flexibility in collection of controlled substances
- Mail-back programs by DEA-authorized entities
- Take-back events by law enforcement agencies continue
- **Addition of pharmacies** as authorized collection sites



increase in potential collectors leads to additional permanent collection sites

# U.S. Support For Drug Take-Back



## Drug Enforcement Administration (DEA)

national prescription drug take-back days

## Office of National Drug Control Policy (ONDCP)

part of its national drug control strategy

## Food and Drug Administration (FDA)

Developed guidelines with ONDCP for drug disposal

## Environmental Protection Agency (EPA)

Promotes consumer use of take-back programs

## States

The majority of state agency websites provide information either on their own state programs and/or federal DEA take-back days

# Pharmaceuticals EPR in the U.S.



Legislative activity at  
**local, state, & federal**  
levels

## 29 pharmaceutical EPR laws today:

- 4 cities (CA)
- 19 counties (CA, WA, IL, NY)
- 6 states (MA, VT, WA, NY, CA, OR)

# Possible Legislative Trends

## Pharmacy participation

- mandatory vs. voluntary
- middle ground:
  - ✓ mandatory for large chains only
  - ✓ mandatory if convenience not met by deadline



## Combine pharms and sharps law into one bill

# A Note About In-Home Drug Disposal Products / Pouches

## Claims

- Safely and effectively neutralize drug waste
- Additional tool in safe drug disposal toolbox
- More convenient than kiosk
- Meet federal government agency requirements
- Some pouches described as using “activated carbon to deactivate the medication”



## Concerns

- Lack of transparent data on ingredients, mode of action, or testing under different conditions
- Potentially dangerous consequences of incorrect use
- Small capacity
- Additional packaging waste
- State/local regulations around trash disposal
- High cost per unit

# MISSOURI DRUG TAKE-BACKS

## MISSOURI PHARMACEUTICALS STEWARDSHIP SUMMIT

Dr. Randall Williams, Director  
Missouri Department of Health and Senior Services  
[www.health.mo.gov](http://www.health.mo.gov)



**Missouri**  
**DHSS**  
Department of Health  
and Senior Services

## MISSOURI DRUG TAKE-BACKS

- Historically, the DEA would host take-back events twice a year, in April and October;
- On average, the DEA collected 40,000 pounds during each event in Missouri;
- The drop-off locations were hosted by local law enforcement;
- In October 2019, the DEA collected 38,462 pounds in Missouri at 113 separate law enforcement locations.

## SENATE BILL 826 (2018)

- On Friday, July 6, 2018, Governor Parson signed Senate Bill 826 into law.
- This law authorized disposal boxes to be placed in pharmacies, hospitals and certain other medical facilities.

## SENATE BILL 826 – DRUG DISPOSAL BOXES

**Registered Locations** = pharmacies, hospitals, LTCFs, and Narcotic Treatment Programs (NTP);

**No application or fees**—just write a letter to DHSS Bureau of Narcotics and Dangerous Drugs (BNDD) to notify them of your drop box activity. BNDD will send a letter of authorization you can show the DEA.

**No new state requirements**. Follow existing DEA guidelines in 21 CFR 1317.

BNDD goal of website is to educate public, list drop box locations and advertise take-back events.



## HOW TO PARTICIPATE

1. There are no applications or fees required to the department;
2. Send a written request to the Bureau of Narcotics and Dangerous Drugs (BNDD) to ask for an authorization letter;
3. The BNDD usually processes requests and sends the letters within one business day;
4. Requests may be mailed, or emailed to [BNDD@health.mo.gov](mailto:BNDD@health.mo.gov);

## REQUIREMENTS FOR THE DEPARTMENT

1. The DHSS shall publish a list of drug disposal box locations in Missouri;
2. The DHSS shall provide educational information on how citizens can dispose of unwanted medications;
3. The DHSS shall publish any known take-back events that are shared with them;

All of this information is available on the BNDD website at <https://health.mo.gov/safety/bndd> and there is a link to “*How Citizens Can Dispose of Unwanted Medications*.”



**Only the actual registrant may apply for and make changes to a registration.  
Applications and changes may not be delegated to any other person.**

- [What's New!](#)
- [Publications](#)
- [Statutes & Regulations](#)
- [Frequently Asked Questions](#)
- [Applications & Forms](#)
- [How Citizens Can Dispose of Unwanted Medications](#)

Activities and programs of the Department of Health and Senior Services ensure the safe and legal handling and distribution of narcotics and dangerous drugs used in the manufacture of controlled substances in Missouri. The department also works with law enforcement and other agencies to minimize the abuse of controlled substances in the state.

Services include:

- Maintaining a registry, as required by state law, of the individuals and firms who prescribe, dispense or otherwise conduct activities which involve controlled substances.
- Encouraging proper management of controlled substances through routine inspections and audits of the records which must be kept by firms and individuals who lawfully manufacture, distribute, or dispense controlled substances.
- Investigating suspected irregularities or mismanagement involving controlled substances. Such investigations originate with complaints from the general public, other government agencies or may develop from routine inspections and audits conducted by Department representatives.
- Acting to correct or prevent unlawful practices, when detected, through education, or, if necessary, administrative action against the registration of the firms or individuals involved.
- Updating the Missouri Controlled Substances list each year and filing changes in the list with the Missouri



**Narcotics & Dangerous Drugs**

**Nursing Homes Inspections**

**Product Recalls**

**Recreational Water Safety**

**Radiation Control**

**Show Me Child Care**

**Show Me Home Care and Rehab**

**Show Me Long Term Care in Missouri**

## Contact

### **Bureau of Narcotics and Dangerous Drugs (BNDD)**

Missouri Department of Health and Senior Services  
PO Box 570  
Jefferson City, MO 65102-0570

#### **Main Office - Jefferson City:**

Telephone: 573-751-6321  
Fax: 573-526-2560

## CURRENT MISSOURI STATISTICS

- The BNDD website has a link to the Department of Social Services that contains a list of 138 law enforcement locations that have disposal boxes;
- The BNDD website has a chart of all pharmacies and hospitals with disposal boxes. They are listed in alphabetical order by county, then city, then street address;
- As of October 13, 2020, there are 216 pharmacy and hospital locations with drop boxes;
- The number of permanent drop boxes in Missouri has caused the bi-annual collections of the DEA to decrease;
- Out of all the drugs collected, 90% are non-controlled prescription drugs and 10% are controlled substances such as opiates and amphetamines.
- We do not know the amount or how many pounds are collected. The statute does not require disposal box locations to keep that record or report it.

## WHY DISPOSAL IS IMPORTANT

- Starting in 2011, officials and medical practitioners would ask patients where they obtained the drugs they were abusing. The most common answers were:
  - Drugs left over in the home;
  - Drugs that belonged to another family member;
  - Stole drugs from a home;
  - Purchased drugs left over from a family member;
  - Purchased drugs from another person who took them from their home;
- It became clear that about 75% of the prescription pharmaceuticals being abused were stockpiled in a home. Reducing this stockpile of unneeded drugs can reduce the availability and risk and diversion.

## OUR COMMITMENT

- The Missouri Department of Health and Senior Services remains committed as always to work toward the public's health and safety.
- The Department continues to register and regulate practices with controlled substances while working with medical practitioners, licensed facilities, local, state, and federal law enforcement, and the public.
- We work to protect the public by regulating controlled substances while simultaneously not interfering with their effective use.

# OPIOID ABUSE - PUBLIC AWARENESS CAMPAIGN

## Time2Act

Campaign theme:

Every 11 minutes someone in the U.S. dies of an opioid overdose.

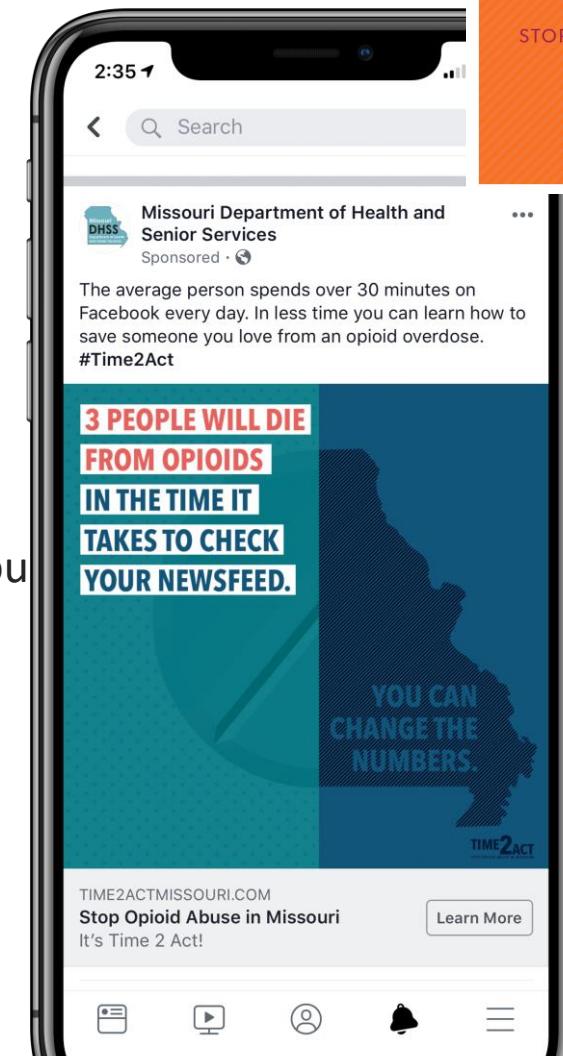
That's one in the time it takes to listen to your four favorite songs.

That's two in the time it takes to watch a TV show.

That's three in the time it takes to drive to work.

The numbers don't lie, and they're intimidating: the number of opioid-related deaths in Missouri has risen drastically in the last few years. But you can do your part to change those numbers, and it starts with taking five seconds to learn how you can help.

We can change the numbers together.



# OPIOID ABUSE - PUBLIC AWARENESS CAMPAIGN

## Time2ActMissouri.com

Website includes: resource links (treatment/support, harm reduction, naloxone training, data, drug take back locations, MO-HOPE, MO HealthNet Opioid Prescription Intervention program); Naloxone standing order information; Get Help Now/crisis hotline numbers

**TIME2ACT**  
STOP OPIOID MISUSE IN MISSOURI  
Time2ActMissouri.com

**MISSOURI'S OPIOID CRISIS  
THE TIME TO ACT IS NOW**

Opioid overdose deaths have steadily increased in Missouri. The devastating impact of opioid misuse and overdose places a tremendous burden on our families, communities, and healthcare systems. Missouri is committed to supporting those impacted by the opioid crisis through education, resources, and linkage to treatment.

It is our challenge. Together we will confront it.

5609 Missouri Lives Saved with Naloxone

1094 Opioid Overdose Deaths in Missouri for 2019

4015 Non-fatal ER Visits Due to Opioid Overdose for 2018

One out of every 56 deaths in Missouri in 2018 was due to opioid overdose. One in three people have been impacted by the opioid crisis. If you or a loved one has been impacted, help is available.

**GET HELP NOW**

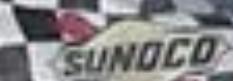
We're here to help.



OVER 1,300 PEOPLE  
WILL DIE FROM AN  
OPIOID OVERDOSE  
BY THE TIME YOU  
STOP FOR YOUR  
NEXT FILL UP.

Defined as individuals under 50 years old, living in the United States, who died from an opioid overdose in 2017. Data from the National Vital Statistics System. © 2018 TIME2ACT. TIME2ACT.org. TIME2ACT.org is a public awareness campaign of the National Institute on Drug Abuse (NIDA) and the National Institute on Alcohol Abuse and Alcoholism (NIAAA). NIDA and NIAAA are part of the National Institutes of Health (NIH). Learn more about the signs and symptoms of opioid abuse and overdose at [drugabuse.gov](https://www.drugabuse.gov) and [alcoholabuse.gov](https://www.alcoholabuse.gov).

TIME2ACT



SUNOCO

Get Your Sunoco Card Today!  
[www.suncardusa.com](http://www.suncardusa.com)

Take Control Of  
Your Fuel Expenses

10  
GALLONS

Contains  
10% Ethanol

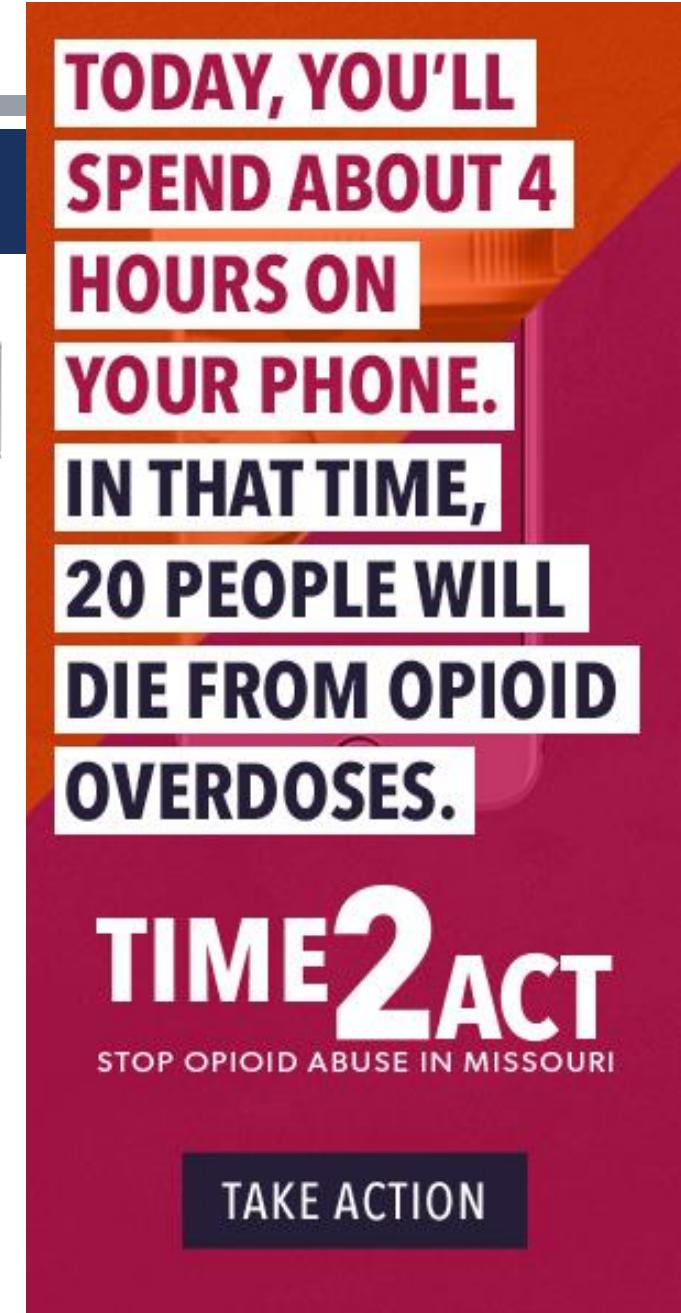
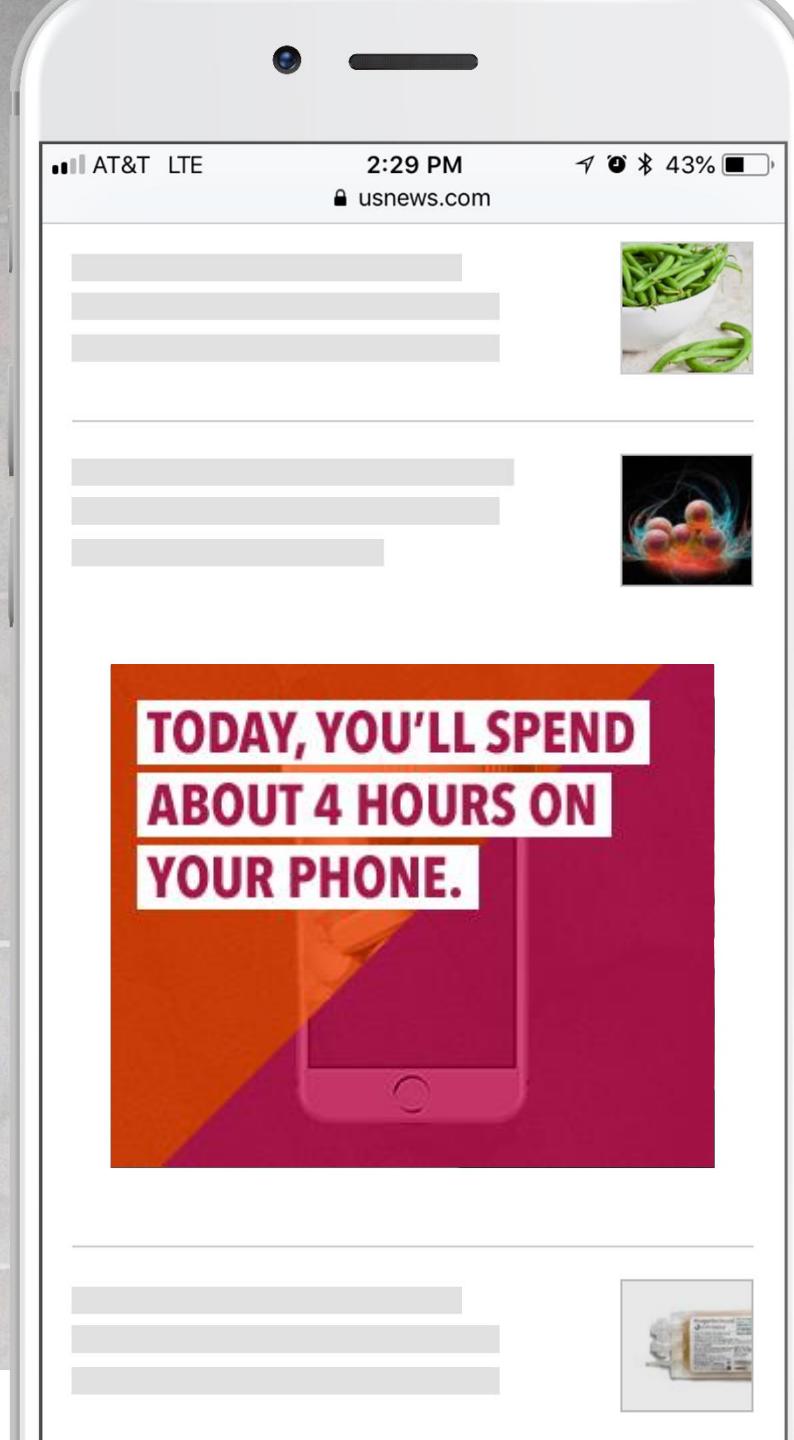
THIS SALE

GALLONS

SUNOCO 94

Pav At Pump







# THANK YOU

MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

[WWW.HEALTH.MO.GOV](http://WWW.HEALTH.MO.GOV)

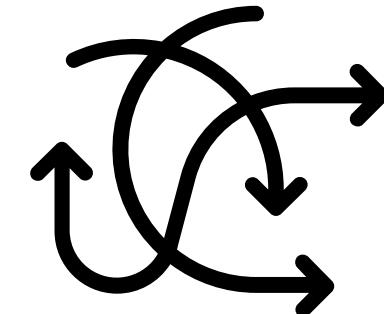
# Existing Infrastructure for Collection & Disposal in MO



**Rachel Perlman  
PSI**

# Existing Infrastructure for Collection & Disposal in MO

- When we began research earlier this year, no publicly available list contained all the collection sites in Missouri
- Disparate resources, difficult to search, hard to find permanent sites
- Our goal was to create one database of all known locations collecting unwanted pharmaceuticals in the state



# Database of Pharms Collection Sites

- Created by PSI and MO PSC
- Intended for public use and distribution
- Data Fields:
  - Site name, general site category, site type address, city, county, SWMD, phone, hours of operation, data source
- Site categories:
  - Law Enforcement (police department, sheriff's office)
  - Pharmacy (independent and chain pharmacies)
  - Health Services (hospital, clinic, etc.)
  - Other (city hall, university, etc.)

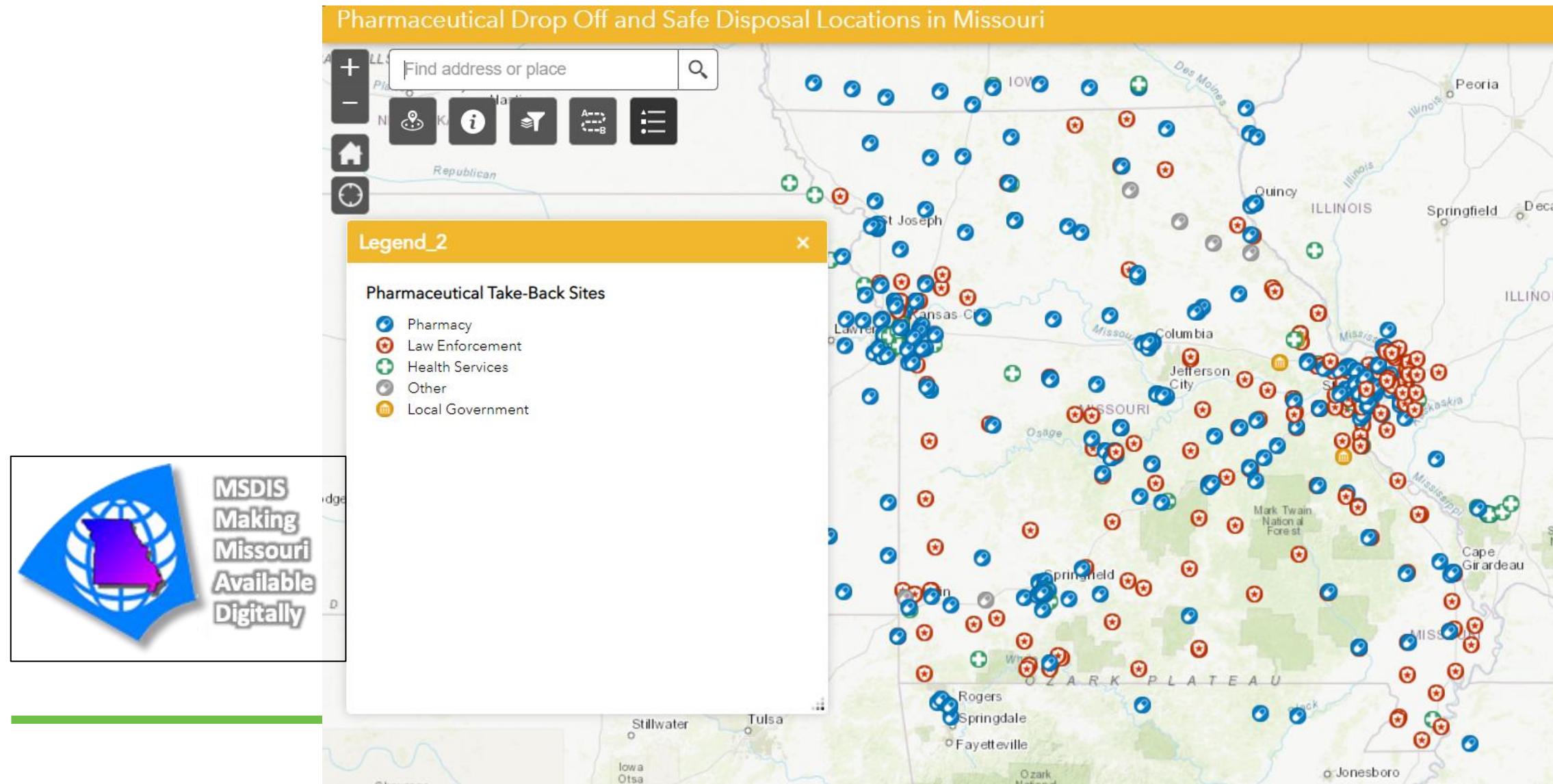
A	B	C	D	G	
1	General Site Category	Site Type	Site Name	Street Address	City
2	Law Enforcement	Sheriff's Office	Adair County Sheriff's Department	215 N. Franklin Street	Kirksville
3	Law Enforcement	Police Department	Afton Southwest Precinct Police Depar	5030 Griffin Rd.	St. Louis
4	Pharmacy	Independent Pharmacy	ALPS PHARMACY	2650 W KEARNEY	SPRINGFIELD
5	Pharmacy	Independent Pharmacy	ALPS SPECIALTY PHARMACY	2828 N NATIONAL AVE	SPRINGFIELD
6	Law Enforcement	Police Department	Arnold Police Dept.	2101 Jeffco Blvd.	Arnold
7	Law Enforcement	Police Department	Aurora Police Department	106 S. Elliott Ave	Aurora
8	Pharmacy	Independent Pharmacy	Austin Plaza Pharmacy	410 E. High Street, Suite A	Potosi
9	Law Enforcement	Police Department	Ballwin Police Dept.	300 Park Dr.	Ballwin
10	Health Services	Health Department	Barry County Health Department	65 Main Street	Cassville
11	Law Enforcement	Sheriff's Office	Bates County Sheriff Office	6 West Fort Scott St.	Butler
12	Law Enforcement	Police Department	Bellefontaine Neighbors Police Depar	9641 Bellefontaine Rd.	St. Louis
13	Law Enforcement	Police Department	Bolivar Police Department	211 W. Walnut	Bolivar
14	Law Enforcement	Sheriff's Office	Bollinger County Sheriff's Office	202 High St.	Marble Hill
15	Law Enforcement	Police Department	Bowling Green Police Department	16 W Church St	Bowling Green
16	Law Enforcement	Police Department	Branson Police Department	110 W Maddux St STE 100	BRANSON
17	Law Enforcement	Police Department	Breckenridge Hills Police Department	9623 St. Charles Rock Road	Bellefontaine Neigh
18	Law Enforcement	Police Department	Brentwood Police Dept.	272 Hanley Industrial Ct.	Brentwood
19	Pharmacy	Independent Pharmacy	Burrell Pharmacy	3401 BERRYWOOD DR	COLUMBIA
20	Pharmacy	Independent Pharmacy	Burrell Pharmacy	1300 E. Bradford Parkway	Springfield
21	Law Enforcement	Sheriff's Office	Callaway County Sheriffs Office	1201 Rte O	Fulton
22	Law Enforcement	Sheriff's Office	Camden County Sheriff Department	1 Court Circle Suite 13	Camdenton
23	Law Enforcement	Police Department	Cape Girardeau Police Department	216 N. Missouri St	Jackson
24	Pharmacy	Independent Pharmacy	Capital Care Pharmacy	1125 Madison Street	Jefferson City
25	Health Services	Clinic	Care Stl #2	5541 Riverview Blvd.	St. Louis
26	Health Services	Clinic	Care Stl #3	2425 N. Whittier St.	St. Louis
27	Health Services	Clinic	CARESTL HEALTH #1	5471 DR. MARTIN LUTHER KING DI SAINT LOUIS	
28	Law Enforcement	Police Department	Carl Junction Police Department	302 N. Main	Carl Junction
29	Law Enforcement	Police Department	Carthage Police Department	310 W. 4th St.	Carthage
30	Law Enforcement	Police Department	Caruthersville Police Department	1300 S Ward Ave.	Caruthersville
31	Law Enforcement	Police Department	Charleston Police Department	204 N. Main St.	Charleston
32	Law Enforcement	Police Department	Chesterfield Police Dept.	690 Chesterfield Parkway W.	Chesterfield
33	Health Services	Clinic	Children's Mercy Employee Wellness	2401 Grand, Ste. 100	Kansas City
34	Health Services	Hospital pharmacy	Children's Mercy Hospital Outpatient	2401 Gillham Road	Kansas City
35	Local Government	City Hall	City of Crystal City (City Hall Lobby)	130 Mississippi Ave.	Crystal City
36	Law Enforcement	Police Department	City of St. Charles Police Dept.	1781 Zumbuhl Rd.	St. Charles

# Database of Pharms Collection Sites

- **365 sites in MO\***
- 108 Sites in bordering areas near MO (IL, AR, IA, KS)
- Number of sites in MO by categories:
  - Law Enforcement (police department, sheriff's office) – 162 locations
  - Pharmacy (independent and chain pharmacies) – 160 locations
  - Health Services (hospital, clinic, etc.) – 32 locations
  - Local Government (city hall) – 9 locations
  - Other (university, etc.) – 2 locations

*\*Sites have not been verified via phone call/visit, due to time intensiveness of the task. Volunteers?*

# Map of MO Pharms Take-Back Sites



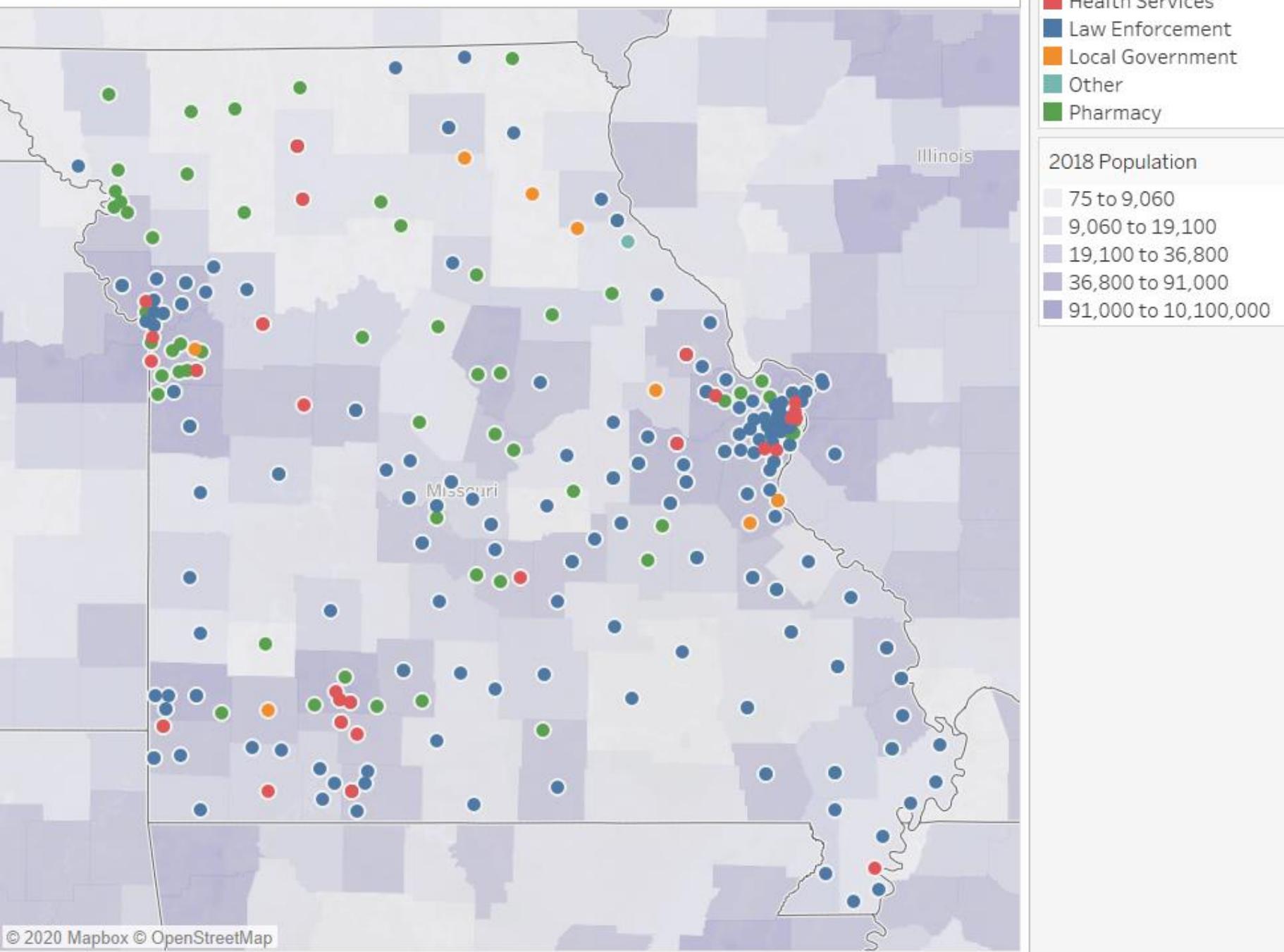
# Show Live Map

[bit.ly/MOmeds](https://bit.ly/MOmeds)



PRODUCT  
STEWARDSHIP  
INSTITUTE

## Map of Pharmaceutical Collection Sites in MO



Sites superimposed  
on MO map of  
county population

Concentration of  
sites in urban areas

Some rural counties  
zero or only one site  
(at law enforcement)

# BREAK

## 2:00-2:15

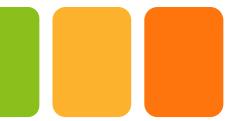
We will resume at 2:15pm CT

Thanks to PSI's Partners:



# Pharmaceutical Take-Back Programs (Part 2)





# Missouri Board of Pharmacy

## Rx Cares for Missouri Medication Destruction Program

Kimberly Grinston, J.D.  
Executive Director





# Rx Cares for Missouri Drug Destruction Program

- Funded in 2018
- Box and disposal up to 12x per year available **at no cost to licensees**
- Licensees may keep collection boxes and/or continue disposal program at their own cost after program ends





# Rx Cares for Missouri Drug Destruction Program

DOWNLOADABLE  
LISTINGS

LICENSEE  
SEARCH

RENEW A  
LICENSE

BOARD MEMBER  
APPLICATION

## Board of Pharmacy

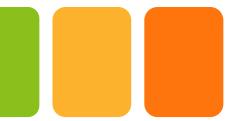
[PR Home](#) » [Pharmacy Home](#)

### RX CARES FOR MISSOURI MEDICATION DESTRUCTION PROGRAM

The Missouri General Assembly enacted § 338.142, RSMo, in 2017 which gave the Board authority to establish a drug take-back program for controlled substances. The Board subsequently initiated the **Rx Cares for Missouri Medication Destruction and Disposal Program** (the “Program”) to provide resources for the collection of unused/unwanted medication from the public for disposal. **Applications are now being accepted.** Learn more about the program below:

- [Rx Cares for Missouri Medication Destruction Program Informational Guide](#) 

# Rx Cares for Missouri Drug Destruction Program

[About MedSafe](#)[Specifications](#)[Headlines](#)[FAQs](#)[Top](#)

**Questions? Call (800) 772-5657**

## About MedSafe

MedSafe combines a stainless-steel collection receptacle with a removable prepaid shipback inner liner. When the inner liner fills, authorized persons can safely remove the liner from the collection receptacle, seal it, and return it via common carrier. Inner lines are treated by incineration, rendering the pharmaceuticals non-retrievable per the DEA's destruction standard.



# Rx Cares for Missouri Drug Destruction Program

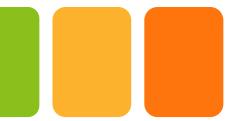




## Missouri FY '20 Stats

- 65 participants (another 9 in process)
- 1,449 pounds of medication collected
- Potential COVID-19 Impact
- Enrollment open now





# Missouri Stats

Lisa Umfleet and Angela Ibaviosa

Parkland Healthmart in DesLoge, Missouri

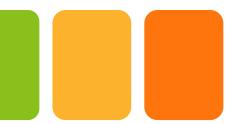


Miranda Phillips  
Family Medicine Pharmacy



Troy Heckman  
Savannah Family Pharmacy





# Missouri Stats

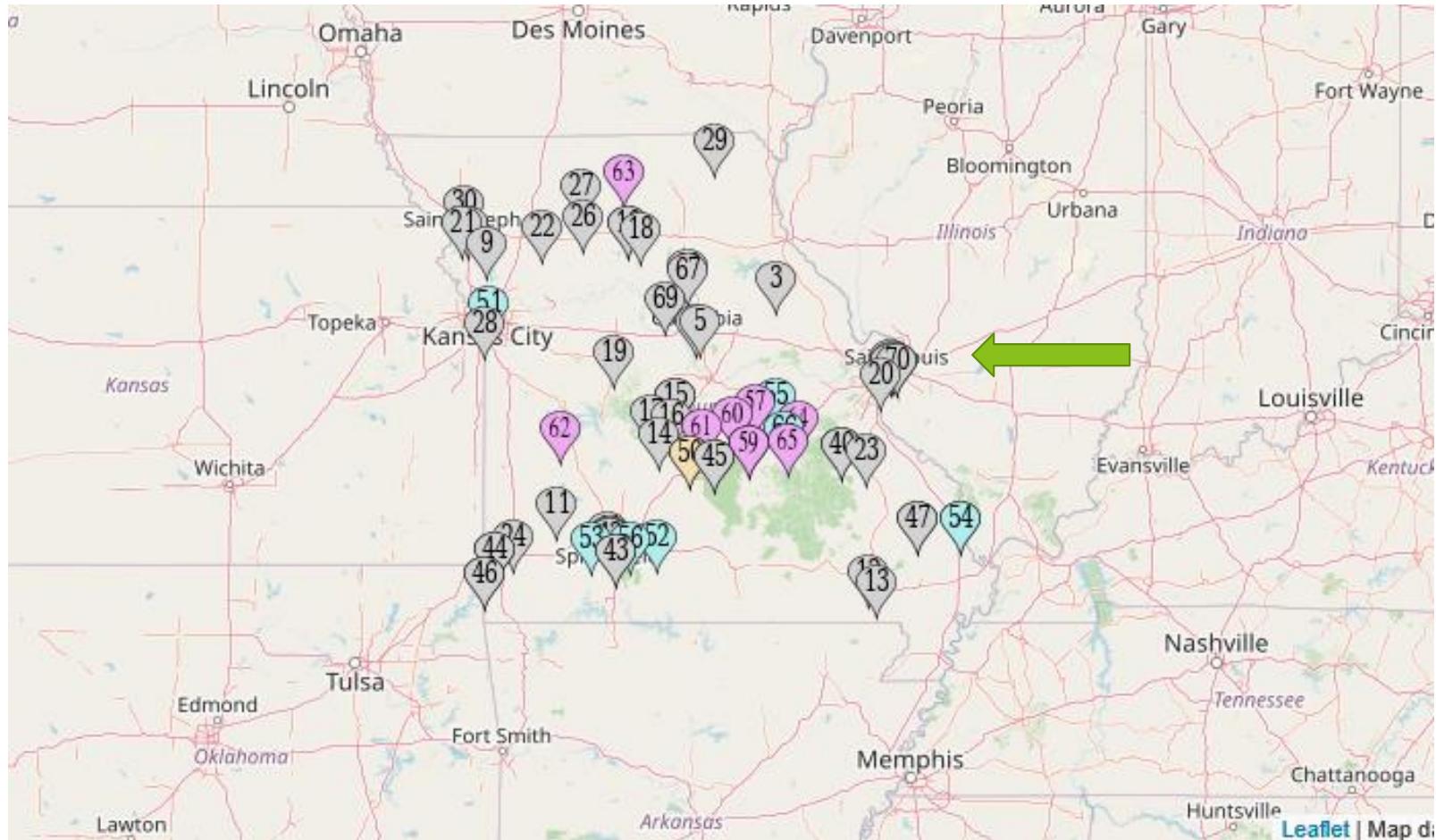
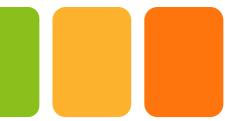
David Gardner  
Greenhills Pharmacy



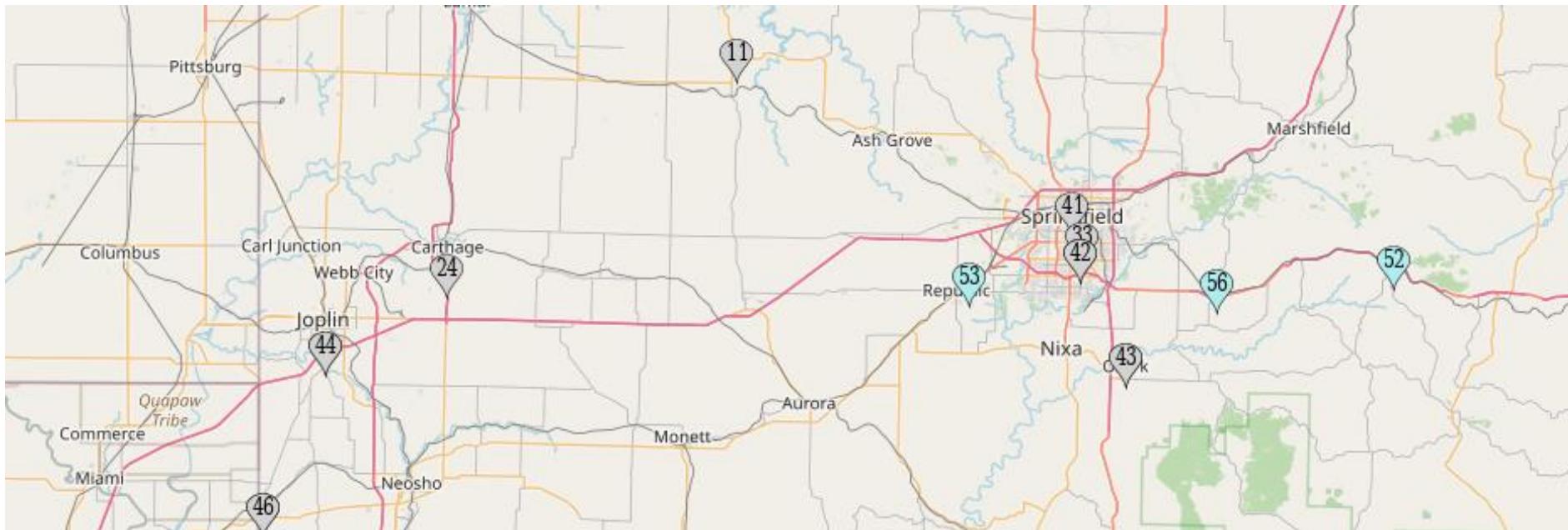
Brandy Wirz, R.Ph. and  
Marty Michel, R.Ph., M.B.A., C.D.E.  
Key Drugs



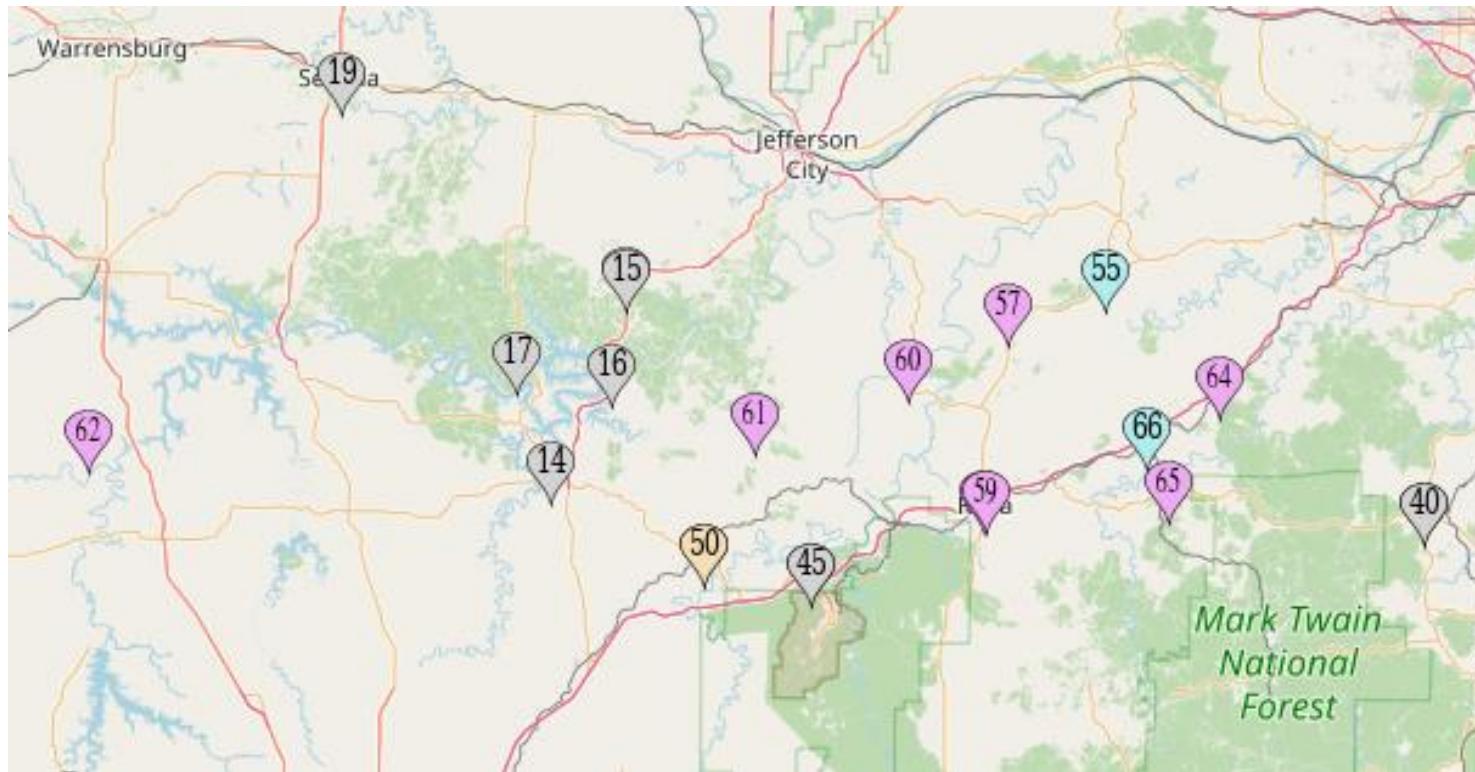
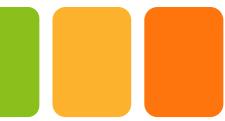
# Rx Cares Boxes (Statewide)



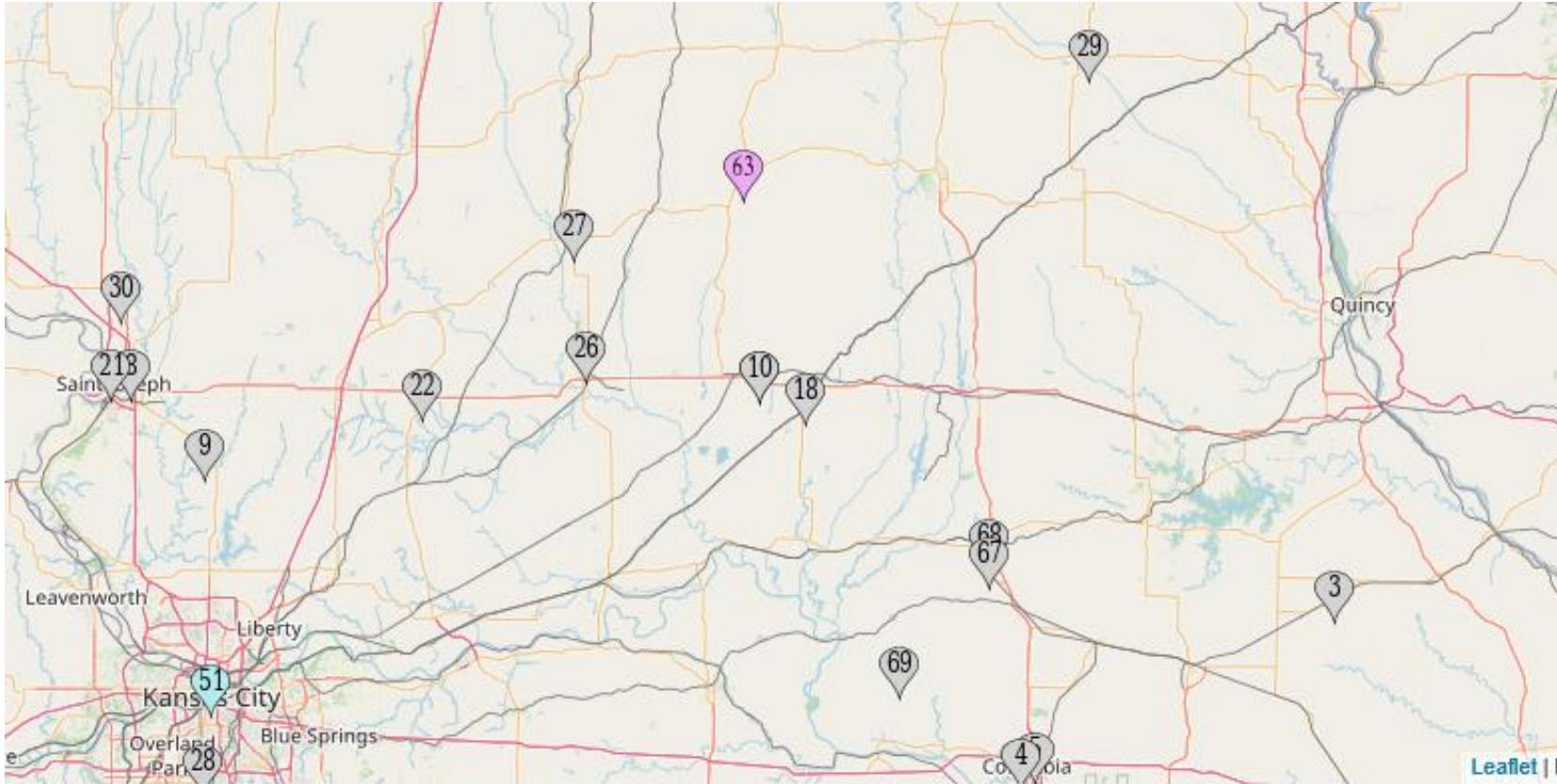
# Rx Cares Boxes (Springfield Area)



# Rx Cares Boxes (Mid-Missouri Area)



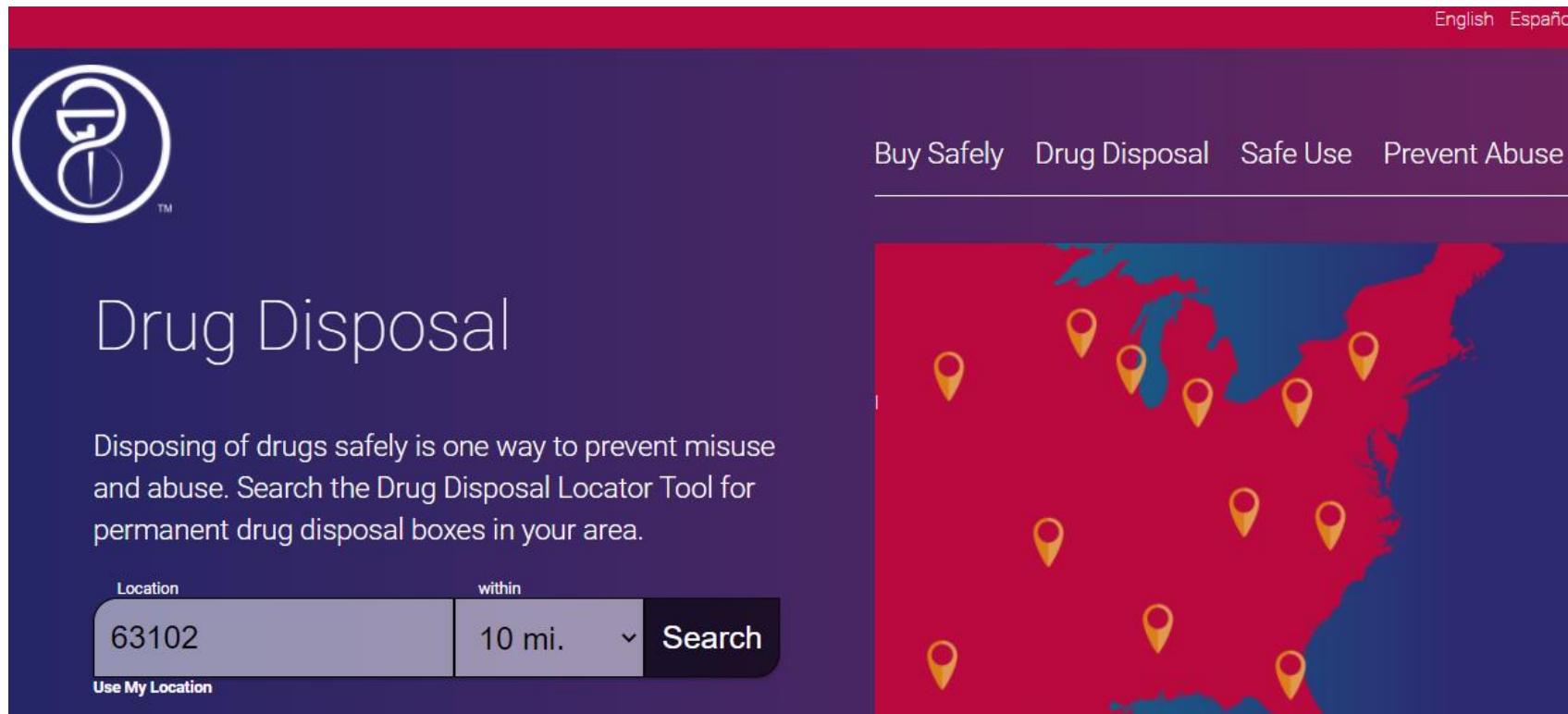
# Rx Cares Boxes (KC/Northern Area)





# NABP Med Collection Finder

- <https://safe.pharmacy/drug-disposal/results/?address=65109&distance=10>



English [Español](#)

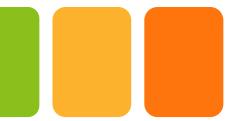
 Buy Safely Drug Disposal Safe Use Prevent Abuse

## Drug Disposal

Disposing of drugs safely is one way to prevent misuse and abuse. Search the Drug Disposal Locator Tool for permanent drug disposal boxes in your area.

Location: 63102    within: 10 mi.    [Search](#)

[Use My Location](#)



# Missouri Board of Pharmacy

## Rx Cares for Missouri Medication Destruction Program

Kimberly Grinston, J.D.  
Executive Director



# Callaway County Sheriff's Office

## Drug Take Back Program



# Callaway County Sheriff's Office

## Drug Take-Back History

- The CCSO has participated in the NDTBI since 2010 in cooperation with the Callaway Water District #2. The water district hosts the event at the office on north end of Fulton.
- The NDTBI is a twice yearly event occurring in April & October.
- The DEA briefly suspended the NDTBI for spring 2015, but brought it back the following fall.
- Due to COVID-19 there was no NDTBI event in April 2020.
- Water district #2 and CCSO have brought in 2,503 pounds of medication since the event began.

- Beginning in 2013 the CCSO began disposing of medications collected during death investigations through the NDTBI.
- County residents frequently dropped off unused medications or medication belonging to deceased family member at the sheriff's office. That medication was then accepted by a deputy who was often not immediately available.
- After the April 2018 event, I began looking into ways to make it easier for residents to drop off unused or unwanted medications.
- I contacted the DEA to learn how to become a year round collection site.  
<https://apps2.deadiversion.usdoj.gov/pubdispsearch/spring/main?execution=e1s1>
- I was told that the sheriff's office could not become a year round collection site and that the NDTBI was only for medication collected on the two relevant days.

# Our Drug Take-Back Box

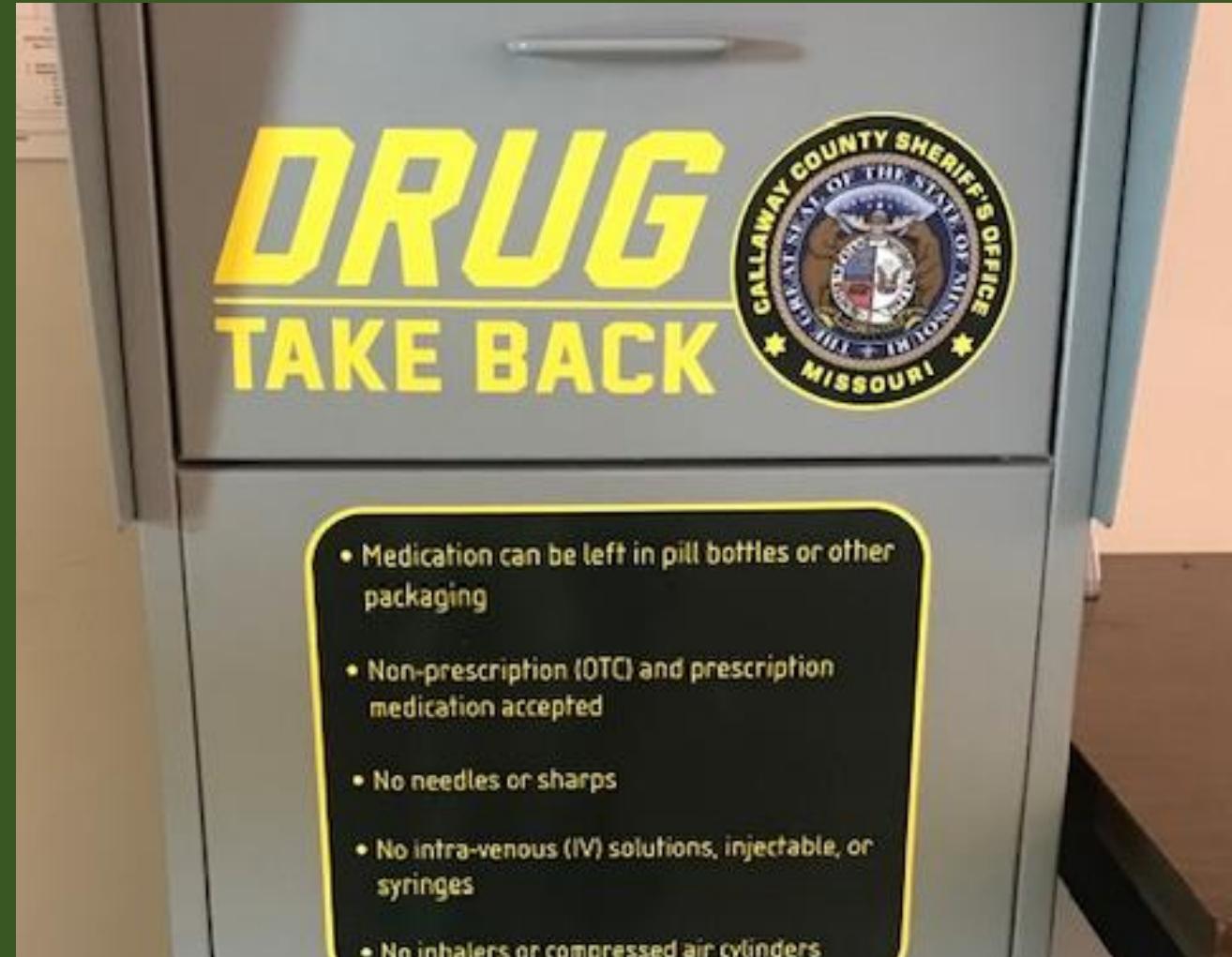
So we bought a drop box, labeled it, and bolted it to the floor of our lobby.



We had a local sign shop make vinyl stickers for us. The instructions on the lower part of the drop box are from the DEA NDTBI website.

The response to our Drug Take Back Box has been overwhelming and positive.

Residents from all over the county truly appreciate being able to drop off medication in a secure way, 24 hours a day, without having to contact a deputy.



[www.globalindustrial.com/p/storage/mailboxes/mail-parcel-drop-boxes/courier-and-collection-box-4975gry-gray-private-access](http://www.globalindustrial.com/p/storage/mailboxes/mail-parcel-drop-boxes/courier-and-collection-box-4975gry-gray-private-access)

# So, What do you do with all these drugs?

- Our Drug Take Back Box is checked frequently and emptied as needed.
- The contents of the drop box is then placed into DEA supplied boxes and stored in our limited access on-site evidence building until the next NDTBI event.
- The boxes are weighed along with the medication that was taken in during the event and turned over to the DEA in accordance with their procedure.

# What kind of medication do you take in?

- Well, everything...
- While the NDTBI is intended to be anonymous, occasionally people will talk about the medication they are dropping off.
- In my experience participating in the event for the last five years, people will ask if it's ok to drop off OTC medication, or they will talk about the dozens of medications a loved one was taking before passing away.



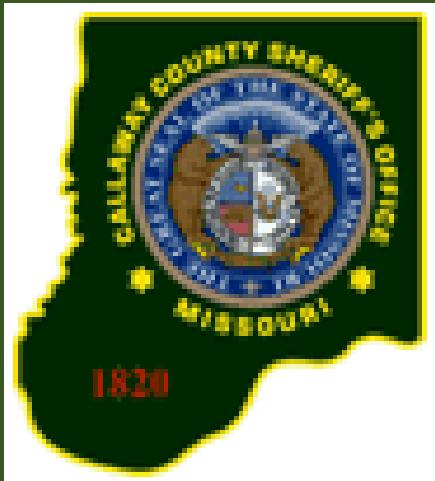
# Sharps?

- While we do not advertise it, if someone wants to drop off syringes during the NDTBI event, I accept them in a five gallon bucket I keep on hand for that purpose. Some people don't want to throw sharps in the trash IAW standard procedure because it seems kind of counter intuitive.
- I then stockpile collected sharps along with sharps that are removed from evidence for disposal and take them to the local ambulance base. We are a small enough agency where we can get away with this and not overwhelm the ambulance district's collection bin.

# DEA stuff

- Here's a link to the rules about disposal that say I am allowed to have a drug collection box (of course there is other important information):  
[https://www.deadiversion.usdoj.gov/21cfr/cfr/1317/subpart\\_b.htm](https://www.deadiversion.usdoj.gov/21cfr/cfr/1317/subpart_b.htm)
- The DEA provides guidelines for household disposal of medication that includes mixing up pills in a ziplock bag along with coffee grounds or some other undesirable substance.
- The DEA discourages flushing medication so as to prevent the chemicals from entering the water supply.
- The DEA website recommends flushing fentanyl patches for some reason.
- Here's a link to the DEA's Drug Diversion website:  
[https://www.deadiversion.usdoj.gov/drug\\_disposal/takeback/index.html](https://www.deadiversion.usdoj.gov/drug_disposal/takeback/index.html)

Like us on Facebook!



Jeff Harding, email:  
[jharding@callawayso.org](mailto:jharding@callawayso.org)



[www.facebook.com/CallawayCountySO](https://www.facebook.com/CallawayCountySO)



# “Safe Trips for Scripts” Program

MO Pharmaceuticals Stewardship Summit

Michael Van Brunt, P.E.

October 2020

# Covanta Overview

- Covanta (NYSE: CVA) owns and operates a network of more than 40 Waste-to-Energy (WtE) facilities around the globe. WtE offers solutions for sustainable management of waste and renewable energy generation
- Through a subsidiary, Covanta Environmental Solutions (CES) operates two Drug Enforcement Administration (DEA) Reverse Distributor facilities and destroys thousands of tons of controlled substances including over 50,000 unwanted medicine box/liners and envelopes
- Our team maintains in excess of 25 years of experience managing the destruction of pharmaceutical waste in compliance with permits and regulations
- Partnered with 700 law enforcement agencies with destruction services for unwanted medications
- Selected vendor for two New York Department of Environmental Conservation take-back projects, CA Department of Health Care Services and numerous independent accounts
- Numerous industry awards including 2018 Sustainability, Environmental Achievement & Leadership (SEAL) for its leadership in the safe and secure destruction of unwanted and expired medication through its Prescription for Safety (Rx4Safety) program

## Covanta Unwanted Medication Collection & Disposal Partners



# Program Overview

- Types of Collection

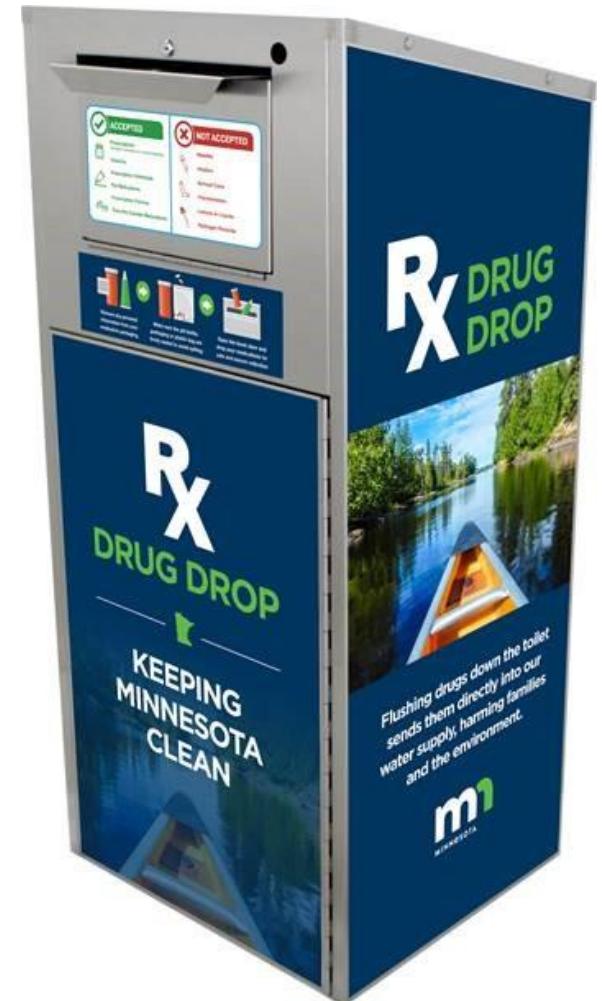
- Kiosks: CFR 1317.75 (1): Collection receptables may be placed inside a collector's registered location, inside law enforcement's physical location or at an authorized long-term care facility
- Envelopes: CFR 1317.70 (a) A mail-back program may be conducted by Federal, State, tribal, or local law enforcement or any collector
- Law Enforcement / DEA National Take-Back Day

- Compliance

- Ensure operators, retailers and collectors are operating to meet all operating requirements include DEA, DOT, USPS, EPA and ADA. Along with all local and state guidelines

- Destruction

- DEA: 1317.90 (c) The method of destruction shall be consistent with the purpose of rendering all controlled substances to a non-retrievable state in order to prevent diversion of any such substance to illicit purposes and to protect the public health and safety.
- EPA: 2015: Concludes WTE is “environmentally protective” for destruction of pharmaceuticals  
2018: Outlines preference for WTE over landfilling for disposal of household pharmaceuticals  
2019: Included as option in EPA’s rule for DEA controlled substances



# Covanta Disposal Network

Multiple mail-back and Covanta Waste-to-Energy facilities offers compliant destruction services with seamless operational back-up, reduces costs and minimizes possible diversion points



Mail-Back Receiving Facility



Covanta Waste-to-Energy Facility

DEA utilizes approximately 50% of Covanta waste-to-energy facilities throughout the US

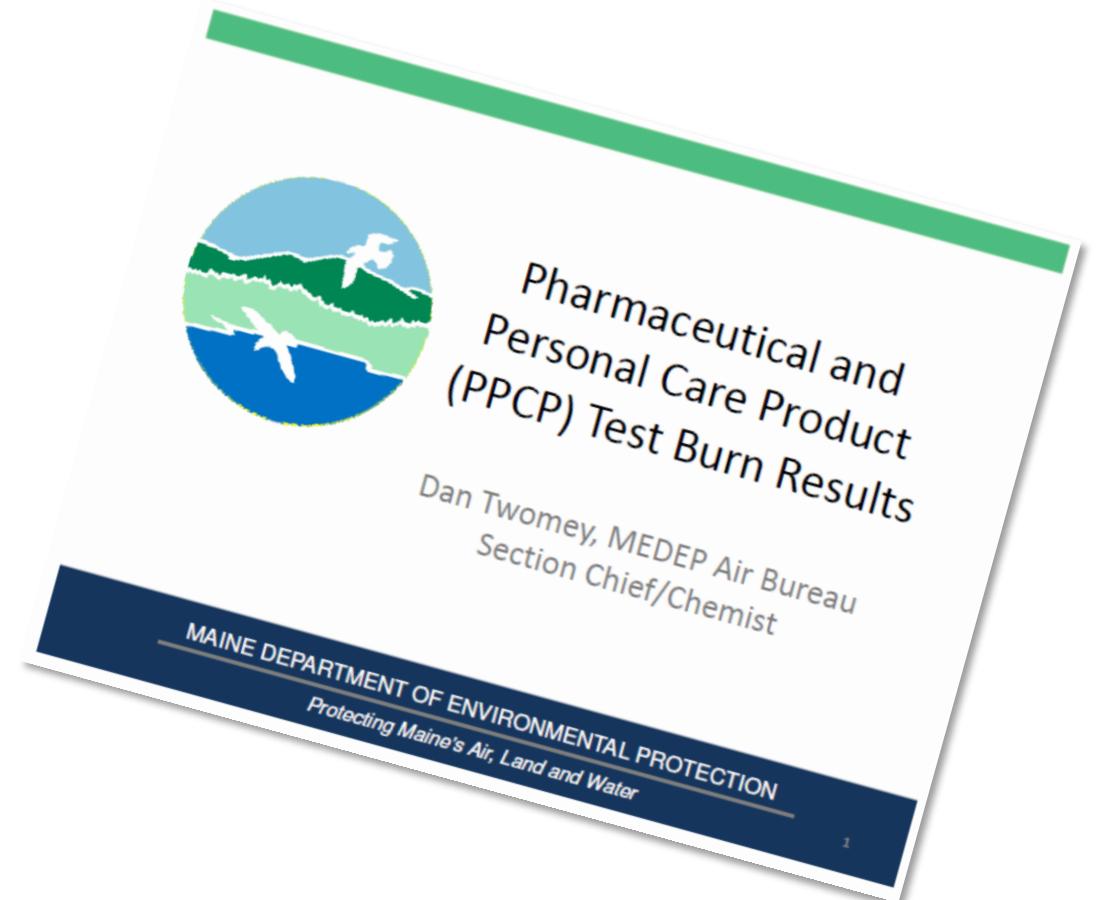
# Why Waste to Energy?

- **Reduced transportation impacts**
  - Facilities located across the country
- **Energy recovery benefits**
  - Facilities specifically designed to recover energy & export electricity and/or steam
- **Proven environmental performance**
  - Advanced air pollution control
  - Rigorous test-burn study
  - Determined by U.S. EPA to be “environmentally protective”
- **Meets DEA’s non-retrievable standard of destruction**
- **Demonstrated track record**



# Maine DEP Test Burn Study

“...emissions from the ecomaine [WTE] facility, whether combusting controlled substances or not, result in very low levels of VOCs and air toxics. The stack exhaust shows levels of most compounds actually below what is routinely measured in the ambient air in the Portland area. The ash results indicate a greater than 99.9% destruction of PPCPs during the combustion process.”



# Helping Communities: Rx4Safety

- Currently in 10<sup>th</sup> year of our program to provide safe, secure and anonymous disposal of pharmaceuticals
- Partner in DEA's National Prescription Drug Take Back Day
- Free for community-sponsored, drug take-back events

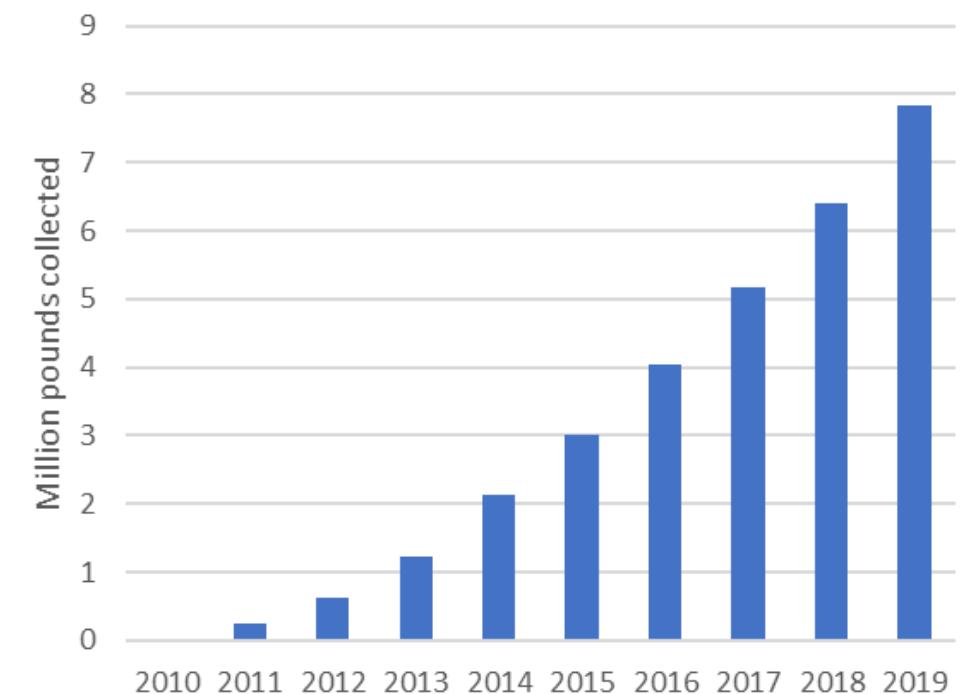
"Pharmaceutical waste disposal is something we are deeply concerned about on behalf of residents across Long Island. Safe disposal methods for unwanted and expired drugs are critically needed to ensure homeowners are not flushing them or pouring them down the drain. Incineration is the only way to ensure that these substances are not getting in our drinking, coastal and marine waters. Covanta's leadership through the Rx4Safety program has been extremely meaningful to our island."

**Adrienne Esposito**, Executive Director, [Citizens Campaign for the Environment](#)



**Rx4Safety™**

Cumulative Collection



# A LITTLE BIT ABOUT INMAR INTELLIGENCE

Kirk Herweck



138

# DIVERSIFIED BUSINESS = DIVERSIFIED DATA ASSETS = A UNIQUE VIEW OF THE PATIENT-CENTRIC ECOSYSTEM

Inmar Intelligence facilitates **15B transactions a year** in various verticals. Each transaction generates data that we translate into insights for our partners.

- Auditing **80%+ of all Rx returns** nationwide for credit
- Processing **1.5 B+ pharmacy claims** covering **75,000+ distinct NDCS**
- Collecting behavioral data on more than **109M patients** filling prescriptions
- Enabling **2.1B promotion transactions**
- Handling **85M+ units of returned product**



# OUR HEALTHCARE FOCUS

We are **the champion** for heavily-regulated businesses –  
**simplifying the complex** through **tech-enabled solutions and actionable insights**.



## PROVIDER

From claims reconciliation to reimbursement and audit compliance, we help manage the pharmacy financial picture, so you can focus on patient care.



## PHARMACEUTICAL

We apply advanced behavioral analytics and predictive modeling to improve outcomes through consumer and patient engagement.



## PATIENT

Our solutions connect patients to tools that make prescription medicines more affordable and their lives healthier.



## RxLOGISTICS

As the Rx returns Industry leader and trusted healthcare intermediary, we provide best-in-class solutions for faster, more accurate revenue recovery and optimized, compliant medication workflow and disposition.

# OUR REGULATORY COMPLIANCE EXPERTISE

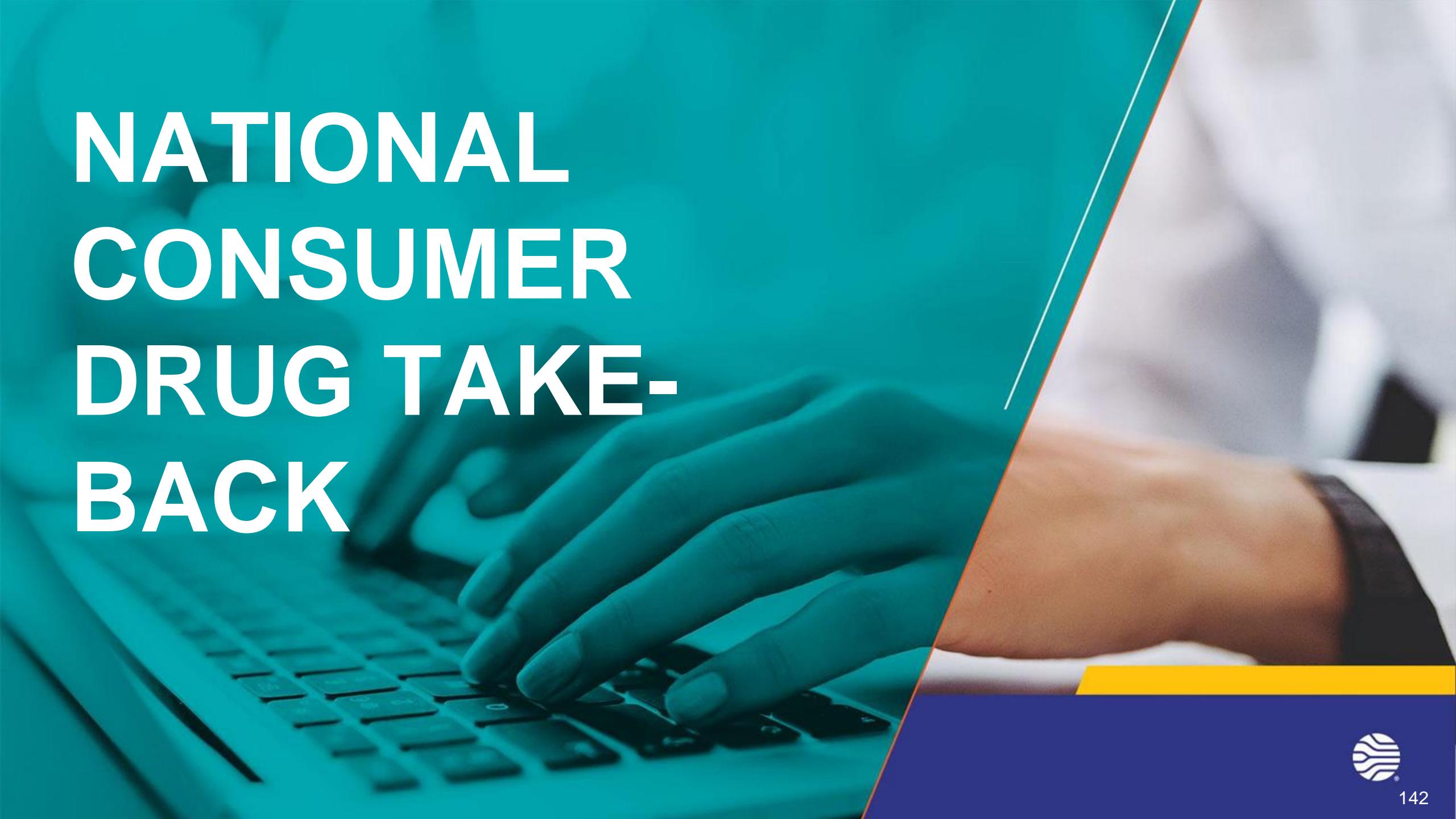
## HUMAN CAPITAL

- Regulatory Compliance team of 15 experts with 150 years combined experience led by experienced JD and MSL leadership
- EPA, DOT, DEA, FDA, USDA, OSHA, BOP, Canadian and state equivalents
- Waste Characterization Team led by PhD in Medicinal Chemistry
- 90+ years' DOT Classification experience
- 500+ HIPAA certified employees

## AGENCY RELATIONSHIPS

- Drug Enforcement Administration
- Environmental Protection Agency
- Food and Drug Administration
- Department of Transportation
- Department of Defense
- Defense Commissary
- Department of Veterans Affairs
- Center for Disease Control
- Louisiana Department of Children and Family Services
- USDA

# NATIONAL CONSUMER DRUG TAKE- BACK



# INMAR'S RECEPTACLE DESIGNED FOR EXCELLENCE



Drop slot with extended tongue to manually identify when container is nearing full

Optimal size for limited pharmacy footprint



4-point locking system with hidden steel deadbolts that are activated when locked for strengthened security

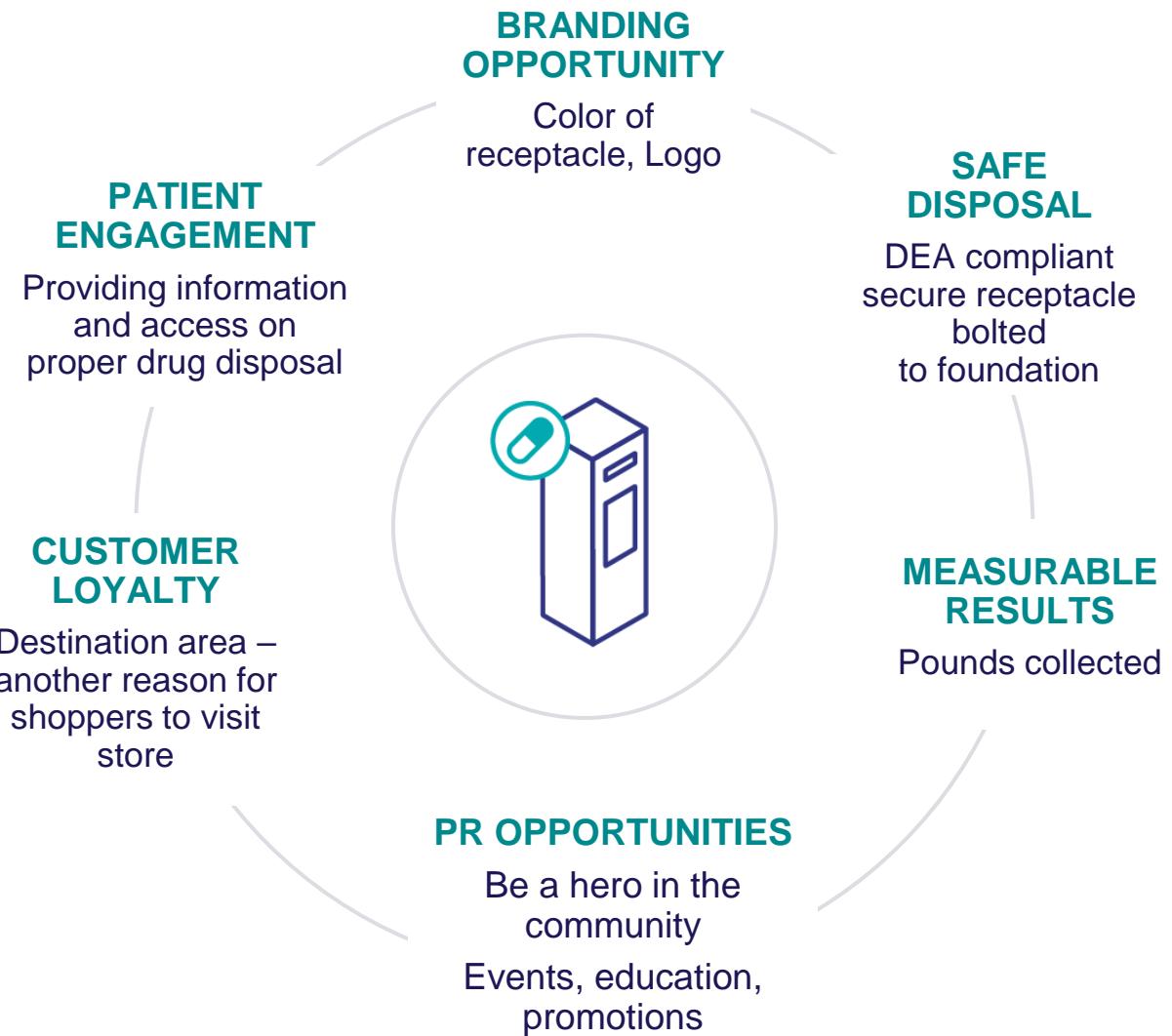
Pre-drilled at the bottom for easier installation to securely bolt to the floor

- Internal container and supplies protect against puncture and provide liquid barrier
- Easy-to-use zip ties are attached
- Prepaid, prelabeled shipping for minimal pharmacy responsibility
- Regulatory ease of managing receptacle and supplies
- Receptacles are drop shipped to locations



## SUPPORTS YOUR ECOSYSTEM

Marketing Communications  
Relationship Building  
Compliant and Safe





# INMAR INTELLIGENCE IS WELL-POSITIONED TO NAVIGATE THE EVOLVING REGULATORY LANDSCAPE

90+  
LICENSES

3.5K  
CONTRACTED KIOSK  
LOCATIONS

46  
STATES  
– 58 kiosks in MO

50K  
PHARMACY  
CLIENTS

Scalability, flexibility, and efficiency will be critical for managing drug take-back in an uncertain legislative environment.

Inmar Intelligence's nationwide operations and relationships put our partners a step ahead.



**KIRK HERWECK**

**DIRECTOR, CONSUMER DRUG TAKE-BACK**

[kirk.herweck@inmar.com](mailto:kirk.herweck@inmar.com)

**THANK YOU!**



# BREAK

**3:15-3:30pm**

We will resume for Virtual Networking at 3:30pm CT

# Virtual Networking

# WELCOME BACK

## MO Pharmaceuticals Stewardship Summit Day 2

Missouri Product Stewardship Council

*October 14-15<sup>th</sup>, 2020*



# Thank You



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES



# Agenda for Day 2

Day 2: Oct 15, 12pm – 3:30pm CT

12:00 – 12:15	Welcome & Day 1 Recap
12:15 – 1:15	Education
1:15 – 1:30	Break
1:30 – 3:15	Laying the groundwork for pharmaceuticals stewardship in Missouri
3:15 – 3:30	Next Steps
3:30	Adjourn

# Day 1 Recap

- Safety, public health, and environmental problems related to poor pharms management
- Pharms take-back programs and best practices
  - In other parts of the US
  - In Missouri
- How safe collection and disposal works
  - Pharmacies
  - Law enforcement sites
  - Mail back
  - One day collections
- 66 participants; 87 registrants

# DEA Take Back Event Coming Up



**Saturday, October 24**

Visit [takebackday.dea.gov](http://takebackday.dea.gov) to  
find a collection site near you.  
10:00 a.m. to 2:00 p.m.



## National Take Back Initiative Collection(s) Site Search Result

Saturday, October 24, 2020  
10:00 am - 2:00 pm

[Search Again](#)

**Take Back Day: Saturday, October 24, 2020**  
**10:00 am - 2:00 pm**

### COLLECTION SITE

If you do not find a collection site near you, please check back frequently, sites are added every day.

ARNOLD POLICE DEPARTMENT	<a href="#">Map</a>
ARNOLD POLICE DEPARTMENT	<a href="#">Map</a>
ASH GROVE POLICE DEPARTMENT	<a href="#">Map</a>
ASH GROVE POLICE DEPARTMENT	<a href="#">Map</a>
BOONE COUNTY SHERIFF'S DEPT.	<a href="#">Map</a>
ASHLAND POLICE DEPARTMENT	<a href="#">Map</a>
BALLWIN POLICE DEPARTMENT (50 BOXES)	<a href="#">Map</a>
BALLWIN POLICE DEPARTMENT	<a href="#">Map</a>
CHESTERFIELD POLICE DEPARTMENT	<a href="#">Map</a>
CLARKSON VALLEY CITY HALL	
PARKING LOT	



**PRODUCT  
STEWARDSHIP  
INSTITUTE**

# Learnings from Day 1

- There are existing resources and programs (site lists, search tools, RxCares) that can be better promoted and made easier to find.
- Pharmacies have options [like RxCares](#) to help them get started as a collection site. RxCares estimates that it can fund up to about 150 pharmacies in MO at one time, and currently has 65 participants with another 9 in process.
- It would be helpful to create an educational tool to aggregate all important information in one place. Existing resources are disparate.
- Resources (websites etc.) need to be updated regularly.
- This is a timely effort, given the increase in Opioid deaths in MO, specifically due to COVID.
- We must account for the rural nature of MO. We need inventive ways to provide access to safe disposal in remote areas and to older populations (senior centers, assisted living, etc.)
- Seniors, caregivers, and family often do NOT know what to with leftover medications.

# Topics of Most Interest

- Question: Is there a correlation between reduced opioid use and the presence of pharmaceuticals collection sites?
  - Check with Alameda County, CA for data.
  - It takes 3 years to become addicted (according to DHSS), so it might be difficult to study.
  - Possibly can compare to Wisconsin or other states with robust collection systems.
  - Calls into Poison Control/Centers may be related. This data is self-reported, but updated frequently.
- How can we create a unified message that is widely heard?
- Maybe we could create a hierachal disposition chart that makes clear the risks to human health and the environment as there is a step away from immediate collection and take-back.

# Education

- Goal 1: Develop a uniform message for the public on residential pharmaceuticals disposal
- Goal 2: Determine outreach and dissemination strategies

## GOT LEFTOVER MEDICINE? A RESOURCE FOR MISSOURI

**Empty your medicine cabinet in a safe, environmentally responsible way using the tips below.**



Seven out of 10 people who abuse prescription drugs get them from friends or family, often out of the home medicine cabinet. Regularly cleaning out unused medicine every six months can help avoid drugs from falling into the wrong hands.

### Never flush medication!

### Drop-Off

- Many police stations and sheriff's offices allow you to drop off your unwanted meds.
- Some pharmacies, hospitals, clinics, and other treatment centers also accept meds.
- One-day medicine collection events may also be available in your area.
- To find potential drop-off locations near you, go to <https://bit.ly/MOmeds>

### Mail-Back

Some pharmacies and other organizations offer postage-paid envelopes for a small fee, which you can use to mail medicines to a safe disposal program. Mail-back systems accept controlled and non-controlled substances.

### Last Resort

You should **only** discard medicine in the trash if there are no drop-off sites or mail-back programs available near you. If you were given a medication disposal pouch, follow the instructions on the pouch. Otherwise, follow these guidelines:

1. Cross out any personal information on your medicine bottle.
2. Empty your medicine into a sealable, disposable container.
3. Add used cat litter, used coffee grounds, or another undesirable substance to discourage use by others.
4. Discard the sealed container with your household trash.
5. Recycle (whenever possible) the empty medicine bottle.

### Safe Storage Saves Lives!

Store medications in a location out of reach and sight of children. Make sure the safety cap is locked. When possible, secure medications such as opiates in a lockbox or locked cabinet.

### Did You Know?

- Every 14 minutes, an American dies from an unintentional drug overdose.
- Among children, emergency room visits for accidental drug poisoning are twice as common as poisonings for other household products.
- Flushing leftover medicines sends them into our rivers, streams, and waterways. Wastewater treatment plants can't remove them.
- Chemicals from medicines can end up in our drinking water, and have been shown to have harmful effects on aquatic life.

### Questions?

PLACE LOCAL CONTACT  
INFO HERE

 **PRODUCT  
STEWARDSHIP  
INSTITUTE**

# Draft Fact Sheet (top)

## GOT LEFTOVER MEDICINE? A RESOURCE FOR MISSOURI

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Seven out of 10 people who abuse prescription drugs get them from friends or family, often out of the home medicine cabinet. Regularly cleaning out unneeded medicine every six months can help avoid drugs from falling into the wrong hands.

**Never flush medication!**

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### Safe Storage Saves Lives!

Store medications in a location out of reach and sight of children. Make sure the safety cap is locked. When possible, secure medications such as opiates in a lockbox or locked cabinet.

### Did You Know?

- Every 14 minutes, an American dies from an unintentional drug overdose.
- Among children, emergency room visits for accidental drug poisoning are twice as common as poisonings for other household products.
- Flushing leftover medicines

# Draft Fact Sheet (bottom)

<https://bit.ly/MOMeds>

## Mail-Back

Some pharmacies and other organizations offer postage-paid envelopes for a small fee, which you can use to mail medicines to a safe disposal program. Mail-back systems accept controlled and non-controlled substances.

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2. Empty your medicine into a sealable, disposable container.
3. Add used cat litter, used coffee grounds, or another undesirable substance to discourage use by others.
4. Discard the sealed container with your household trash.
5. Recycle (whenever possible) the empty medicine bottle.

### Household products...

- Flushing leftover medicines sends them into our rivers, streams, and waterways. Wastewater treatment plants can't remove them.
- Chemicals from medicines can end up in our drinking water, and have been shown to have harmful effects on aquatic life.

## Questions?

**PLACE LOCAL CONTACT**

**INFO HERE**



# Feedback on Draft Fact Sheet

- Ideally, add a reasonable cost-range for the mail-back option and information on whether there is a volume or mass limit on the mail-back pouches.
- **Reword the red section by moving #2 to the top (“Empty your medicine into a ...container.”)**
- In the red section, remove the comment about recycling. Empty pill bottles can be collected by veterinarians or others.
- **Add Poison Help Line to “Safe storage saves lives” box. (1-800-222-1222)**
- Could consider adding message about only purchasing the medicine you need.
- **Clarify the Mail-Back section to specify prescription and over the counter medication.**
- **Add a QR code for web links. This can reach a younger audience.**

# Additional Feedback on Draft Fact Sheet

- To create a unified message, a meeting of the existing program designers—INMAN, RX Cares—could get things moving. They know what works and what's been tried.
- FYI: For police stations in Chicago, medications should remain in their original bottle because they need to keep track of their controlled substances.
  - Individuals can still cross out their personal information.
  - The only reason for labels would be to help ensure a proper treatment standard, but it's not an issue at the household level. It is for any regulated entity. And for the CS destruction standard (for witness).
- Vets are also a stakeholder and are considered health care providers under new EPA regulations, so we might want to consider them in this fact sheet.
- Could include future research on mapping with population, calls to poison control, and control for demographics.

# Elevator Pitch Version

- Can we create a shorter, “ready-to-go” blurb that is endorsed by this group for other organizations to share on social media?
- Potential Language:
  - (1) Never flush medication
  - (2) Don’t keep/stockpile excess medication OR keep only what you need.
  - (3) Find a drop off site near you to safely dispose of medication: <http://bit.ly/MOmeds>
- \*Last resort: dispose of in the trash per instructions here: (ADD WEBSITE)
- Could create a graphic to go along with this blurb
- Interest in social media campaign
- Could also create a FAQ page

# Targeted Outreach

- Are we missing any key entities?
- Who is most important to reach?
- Are you seeing any messages that conflict with our message?
- On what channels can you post this fact sheet or “blurb”?
- What stakeholders are missing from today?
  - Add farmers, vets
  - Nonprofits that work with addiction

# Targeted Outreach – Who to Add?

- MO Department of Health and Senior Services
- MO Department of Natural Resources
- Adair County Health Department
- City of Creve Coeur Police
- City of Columbia, MO
- City of Springfield, MO
- City of Jefferson City
- City of Independence, MO
- St. Charles County Police Dept.
- St. Charles County
- Lake Saint Louis, MO Police Dept.
- City of Ellisville, MO Police Dept.
- St. Louis County Public Health
- P2D2 Missouri Prescription Pill and Drug Disposal
- National Council on Alcoholism and Drug Abuse (St. Louis)
- Adair County Opioid Coalition
- Community Partnership of the Ozarks
- Sink or Swim
- The Alliance of Southwest Missouri
- Northland Coalition
- MyHealthKC (AdventHealth)
- Tri-County Mental Health Services
- St. Louis Children's Hospital
- St. Louis College of Pharmacy
- Walgreens (Missouri)
- Recycle Spot
- Missouri American Water

# Targeted Outreach – Groups to Add

- SWM districts
- Local health departments (are good at teaching and reaching out to counties)
- Hospitals
- State Board of Pharmacy, Board of Nursing, Board of Healing Arts, Dental Board
- Hospices and funeral homes
- Pharmacies
- Professional associations
- Regional planning commissions
- Senior move managers, Assisted Living and Nursing Home Association, Missouri Real Estate Commission
- Utilities – public water, MSD, sewer districts
- Social service agencies, food banks, resource centers, social security offices
- University of MO Extension
- AARP Orgs
- Safe kids coalitions

# Prioritized Outreach

- MO Board of Pharmacy
- Local Health Departments
  - Underserved populations, seniors, underinsured
- MO Pharmacy Association
- Solid Waste Districts
- Any organization that says flushing is okay
- MoHealthNet (MO Medicaid)
- [Please fill out this Google spreadsheet to volunteer to reach out to certain organizations](#)

# BREAK

1:15-1:30pm

We will resume at 1:30pm.

Thanks to PSI's Partners:



# Elements of Pharms Stewardship

A successful statewide stewardship plan establishes the following:

- A safe and **convenient** pharmaceuticals disposal system for consumers
- A **clear/consistent message** on safe pharmaceuticals disposal options for the public, including instructions and locations
- A statewide **strategy to disseminate** this unified educational message, avoiding a patchwork of state and local programs
- A **sustainable funding** mechanism for this system that decreases or eliminates the cost to governments and taxpayers.

# Current Pharms Collection Sites

- **365 sites in MO\***
- 108 sites in bordering areas near MO (IL, AR, IA, KS)
- Number of sites in MO by categories:
  - Law Enforcement (police department, sheriff's office) – 162 locations
  - Pharmacy (independent and chain pharmacies) – 160 locations
  - Health Services (hospital, clinic, etc.) – 32 locations
  - Local Government (city hall) – 9 locations
  - Other (university, etc.) – 2 locations

*\*Sites have not been verified via phone call/visit, due to time intensiveness of the task. Volunteers?*

# Facilitated Discussion: **Laying the groundwork for pharms stewardship in MO**

## INFRASTRUCTURE

- Verifying the sites on the list to make sure they do have a kiosk
- Maintain and update the list and map
- Increasing findability / searchability of maps/lists
- Comparison of kiosks vs. mail-back (cost differences, consumer preferences)
- Law enforcement vs. pharmacies vs. other (e.g., senior centers)
- Urban vs. rural areas

# Discussion on Infrastructure

- You can go to [Google Maps](#) type in "drug disposal near me" or "medication disposal near me" to find your nearest drug disposal site
  - Inmar partners with Google – opportunity here to follow up
  - You can add locations to searches. Add your local locations if yours isn't listed!
- Have a template for filling in information about a given take back site.
- Ann has list of locations in Region B.
- Rachel will share database excel file with the take-back sites.
- Health Depts may not yet have information on mapped sites – let's reach out!
- RxCares only has drop-offs that exist through their program on [their map](#).
- Pharmacies are preferable – people are more likely to go to a pharmacy they are familiar with.
- Do we have data on the size of the problem in MO? Would be helpful to know the number of prescriptions written annually and the pounds of pills purchased.
- **How do we maintain the information/map? This remains a question.**
- **How can we reach rural/remote residents? Possibly contact the Missouri Farm Association and consider mail-back programs.**

# Mail Back Programs

Note: they are relatively hard to find via Google search!

- **Sharps Compliance Inc (for residents):**  
<https://www.sharpsinc.com/store/medication-disposal-envelopes-usps>
- **Stericycle Seal&Send (for pharmacies)**  
<https://www.stericycle.com/services/compliance/seal-and-send>
- **MedPro Disposal (for pharmacies/healthcare practices)**  
<https://mailback.medprodisposal.com/>
- Government agencies may buy them and then give them away to residents.
- These mailers have to be tracked, so companies may be reluctant to market them directly to residents.
- Mailers are relatively small in capacity.
- Worth looking into more and aggregating and publicizing this list.

# Facilitated Discussion: **Laying the groundwork for pharms stewardship in MO**

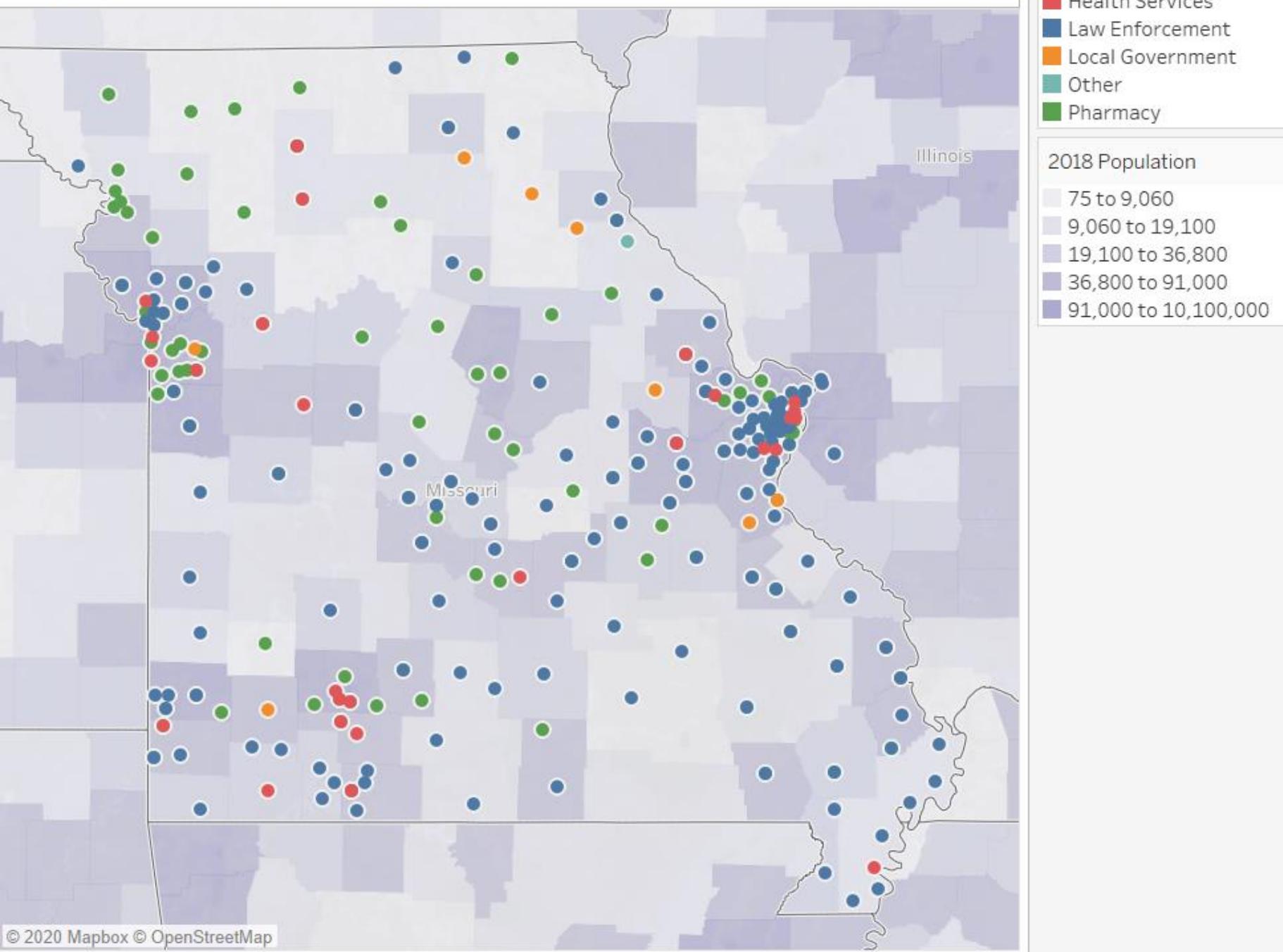
## CONVENIENCE

- What constitutes convenience?
- Examples of convenience standards in EPR legislation
- Site types, distribution, distance from residents
- Permanent sites vs. collection events vs. mail back
- Adjustments during COVID pandemic?

# Examples of Convenience Standards

- Convenience standards are a key part of EPR laws
- It is standard to have a clause that says: at least 90% of residents must have a permanent collection site within a 15-mile radius, and that there should be 1 additional permanent site for every 30K or 50K residents of an urbanized area
- Geographic modeling is used to determine the number and distribution of sites for collection of postconsumer paint based on the criteria chosen
- Relies on Census data

## Map of Pharmaceutical Collection Sites in MO



Sites superimposed  
on MO map of  
county population

Concentration of  
sites in urban areas

Some rural counties  
zero or only one site  
(at law enforcement)

# Discussion on Convenience

- How do we address the 10% that would not have an accessible collection site under the example of a convenience standard? Could aim for 100% within X miles or add an additional site per county.
- 15 miles is pretty far! This could be 30-40 minutes of travel time for many in urban areas.
- For reference: CA requires 5 collection sites per county or 1 per 50k people, whichever is greater
- Drop off times matter! Should be open outside 9am-5pm hours when people work.
- Comparison food for thought: How convenient is it for you to buy a gallon of milk? Medication collection should be on the same order of magnitude.
- Would big box stores be receptive to hosting a kiosk? Note: it needs to be a location registered with the DEA. Pharmacy would have to oversee a location outside a pharmacy.
- MO-specific pharmacy chains are a good target. E.g. Hometown Pharmacy; Kilgores
- Walgreens doesn't have that many locations in MO (~11 sites). Will follow up with Inmar on outreach to Walgreens.
- Perhaps a combination of collection events and permanent take back sites
- What are total number of pharmacies in MO? How many pharmacy collection sites is the goal?
- Need to find strategic locations, especially in rural/remote counties

# Overcoming Barriers for Drop Off

- Behavior! There are few incentives to get people to drop off their medication.
- Beyond making it convenient, how do we get people to USE the sites?
- Need to normalize behavior – make it the safe, right thing to do.
- Make it routine. “Clean out your cabinets every 6 months”
  - Ex: While you are changing the batteries in your smoke detector.... Clean out your medicine cabinets
  - Link it to spring cleaning
  - Tie it to other life changes – moving, someone passes away, having babies
- There are different populations: some need to be convinced; others are already convinced but just need access
- Funeral homes could tell people how to properly dispose of drugs when they counsel the family.

# Facilitated Discussion: **Laying the groundwork for pharms stewardship in MO**

## FUNDING

- What is the cost of collecting pharmaceuticals?
  - Collection receptacles (or “kiosks”) cost only \$2 - \$5 per pound, including liners and a vendor to transport and destroy collected materials. Pre-paid mail-back envelopes cost about four times more, at \$7 - \$22 per pound.
  - Check cost per pharmacy ([How to Guide](#))
- What does a business need to do and know before hosting a kiosk?
  - Space, training staff, cost of the kiosk and educational materials, ongoing cost of pickup, transport, and disposal
- Extended Producer Responsibility (EPR) is an option that ensures sustainable funding

# Facilitated Discussion: **Laying the groundwork for pharms stewardship in MO**

## FUNDING SOURCES

- Pharmacies
- Manufacturers – pharmaceutical companies
  - Voluntary
  - EPR
- Governments / taxpayers
  - Law enforcement sites
  - Municipal HHW sites

# Discussion on Funding Sources

- Board of Pharmacy is highly involved, some amount of funding there
  - How long will this be sustained? The more they provide, the less they will be able to provide in the future, possibly.
  - We can build on their work, so we will follow up with MO Board of Pharmacy.
- Five municipalities in MO are in the midst of creating city-level EPR.
- Potential for targeting all the players involved in the pharmaceutical ecosystem
- Some are interested in considering EPR
- Department of Justice (State or local government) offers grants – opioid focus, relates to safe disposal
- Expand MO PSC Pharms (include some other key stakeholders) and follow up on action items from Summit

# Next Steps

- Expand MO PSC Pharms (include some other key stakeholders) and follow up on action items from Summit
- Edit Fact Sheet to include suggestions from the group
- Research funding sources
- Follow up with MO Board of Pharmacy
- Could we approach individual pharmacies in-person or on the phone and ask if they would be interested in having a kiosk?
  - Go with fact sheet/flyer and business card
  - Share the [RxCares link](#)
  - Get their business card, follow up

# Next Steps

- Action Items & Assignments
  - Participants should view [and edit this spreadsheet](#) to sign up to contact organizations and request that they incorporate the fact sheet into their messaging.
- Next MO PSC meeting: November 12<sup>th</sup> at 10am CT
- Email Rachel to join general MO PSC and/or pharms-focused discussions [rachelp@productstewardship.us](mailto:rachelp@productstewardship.us)
- Meeting notes will be shared in November



# Post-Summit Survey

Please take this 5 minute survey to provide feedback on this Summit!

<https://www.surveygizmo.com/s3/5905955/Post-MO-Pharms-Summit-Survey>

# THANK YOU

