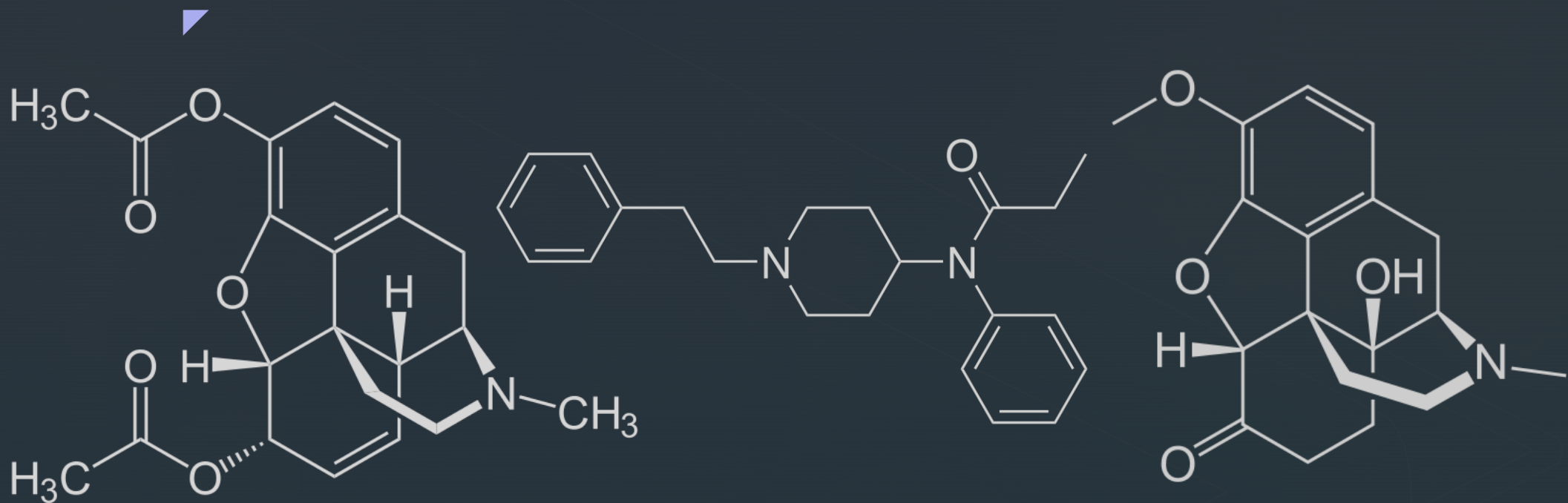


Trends in Opioid Availability and Abuse

DEA Philadelphia Field Division

April 2018



UNCLASSIFIED

Mission

- DEA has two distinct authorities:
 - Enforcement
 - Attack supply: To prevent drug abuse, drug-related deaths, and drug-related crime by attacking the supply of illicit narcotics
 - Reduce demand: Reduce demand through education and non-traditional law enforcement partnerships
 - Regulatory
 - Regulation of all facets of production, distribution, and prescribing of controlled substances

Mission

- DEA Presence in Pennsylvania (5 offices)
 - Special Agents and Task Force Officers (230)
 - Intelligence Analysts (20)
 - Focused primarily on supporting traditional drug trafficking investigations through data collection and analysis
 - Diversion Investigators (30)
 - Conduct on-site inspections of registrants to ensure compliance in record keeping and controlled substance handling
 - 77,000 total registrants in PA

DEA Intelligence

- Tactical and Investigative Intelligence
 - Identify targets and co-conspirators
 - Who is doing what, where, and how?
 - Identify methods and patterns of communication
 - Telephones, email, social media, internet, phone Apps
 - Identify connections to regional/national/international sources of supply

DEA Intelligence

- Strategic Intelligence

- Identify patterns and trends regionally, nationally, internationally
- Analyze key indicators of the above to direct resources and policy
 - LE data (seizures, lab analysis, human sources)
 - Public health data
 - Open Sources
- Produce reports for dissemination to LE counterparts, public health, policymakers, and public

Partners

- FBI, HSI, ATF
- HIDTA
- Pennsylvania State Police
- Office of Attorney General
- National Guard
- USAO
- District Attorneys
- Single County Authorities
- Phila Dept. of Health
- Coroners/MEs
- Univ. of Pitt/PERU
- PA DHS
- PA DOH

What you already know:

- Pennsylvania is in the midst of a drug abuse and overdose epidemic
- Prescription opioid abuse has fueled heroin abuse
- Abuse of prescription opioids, heroin, and fentanyl has led to the overdose deaths of more than **15,000 Pennsylvanians** in the last four years
- Pennsylvania is amongst the states with the highest rates of overdose

Threats

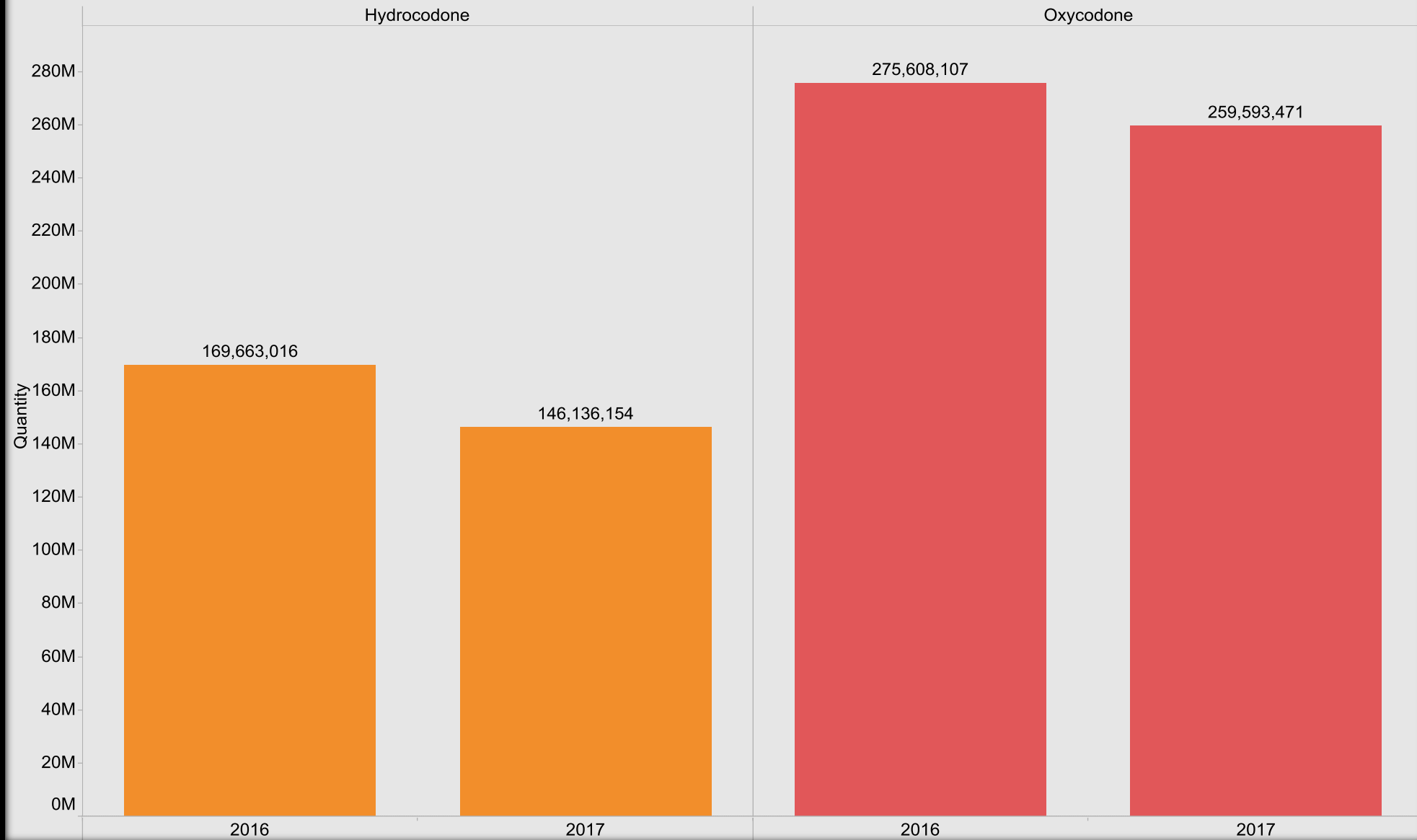
- Primary Threat
 - Mexican Transnational Criminal Organizations
 - Supply all major illicit drugs of abuse to Pennsylvania
- Secondary Threat
 - Regional re-suppliers of fentanyl related substances originating in China

Rx Opioids

- Prescription Opioid Availability
 - Overprescribing culture created in 1990-2000's



Number of Oxycodone and Hydrocodone Pills Dispensed per Year in Pennsylvania



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2017



68,000

Prescribers



3.4 Million

Prescriptions for
Oxycodone and Hydrocodone



~32 Pills

Per Pennsylvanian



3300

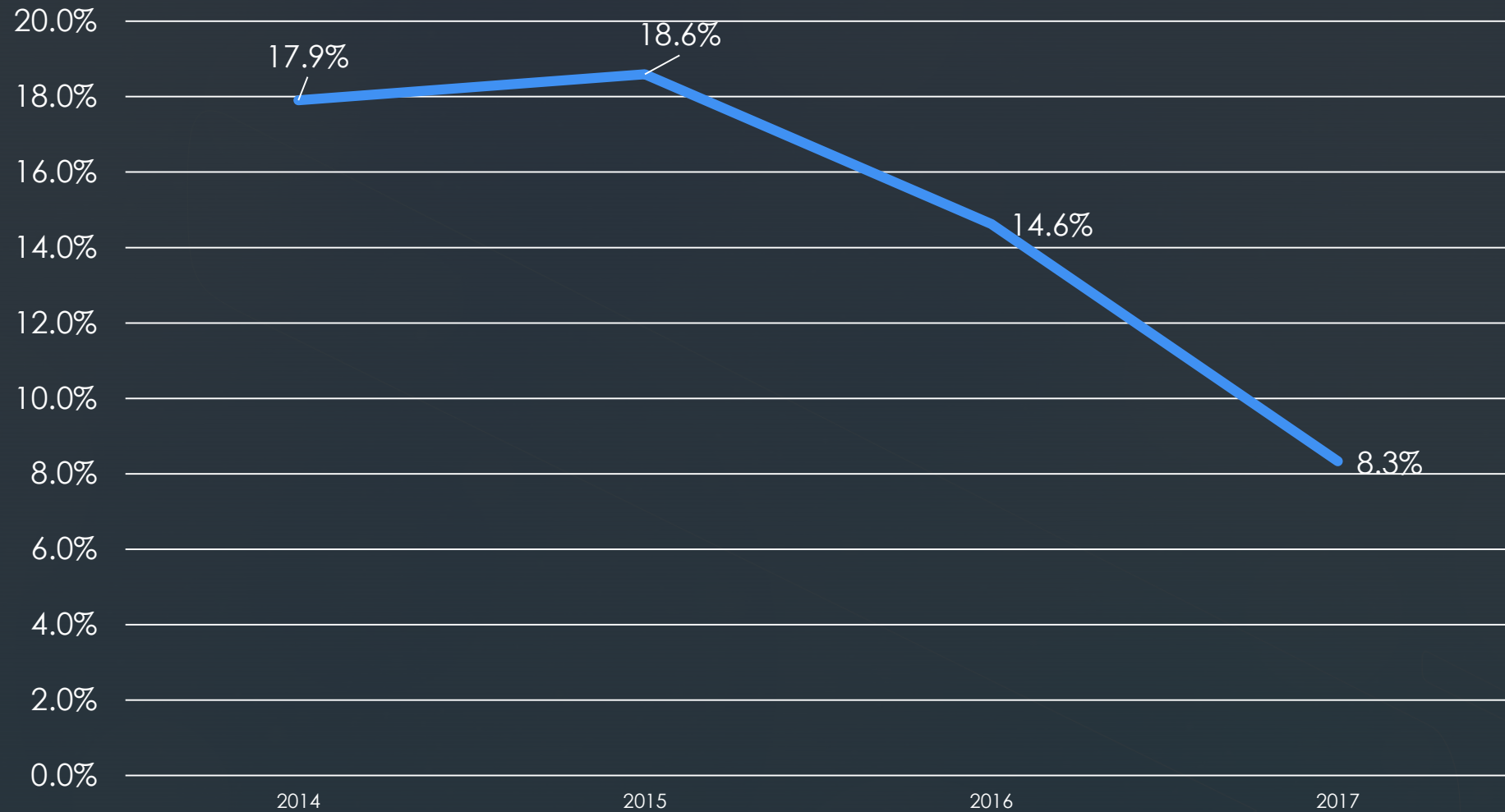
Pharmacies



405 Million

Dosage Units

► Pennsylvania Overdose Deaths with Presence of Oxycodone



UNCLASSIFIED

Rx Opioids

- Progress
 - Decreased availability of prescription opioids
 - PDMP, new prescribing regulations
 - DEA oversight of registrants
 - Prevention Initiatives
 - Decreased number of new Rx opioid abusers (NDTA, 2017)

Pennsylvania's Prescription Drug Monitoring Program (PDMP)



93,000 USERS REGISTERED

Over the past 12 months, the PDMP registered over 93,000 users.



53,000 SEARCHES PER WEEKDAY

The program's database has averaged approximately 53,000 searches on a weekday and 9,000 searches on a weekend.



DECREASED DOCTOR SHOPPING

The number of patients who went to 5+ prescribers and 5+ pharmacies in 3 months for Schedule II drugs decreased 86% in the first year.



REDUCED PRESCRIPTIONS

The number of youth who received prescriptions for painkillers decreased 30% in the first year.



INTERSTATE COMMUNICATION

The PDMP is currently sharing data with 11 other states and Washington, D.C.

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Enforcement Actions

Owner of Six Pennsylvania Advanced Urgent Care Facilities Indicted on Federal Charges

SEP 26, 2017 (PHILADELPHIA) – On September 26th, the Philadelphia Field Division Tactical Diversion Squad (TDS) indicted the largest re-distributor of buprenorphine (per ARCOS data) in the country in 2017. Dr. Mehdi Nikparvar-Fard was indicted in the Eastern District of Pennsylvania for making false statements and threatening federal officers while in possession of a concealed firearm.



Dr. Mehdi Nikparvar-Fard arrest photo



Handgun seized from Nikparvar-Fard pursuant to his arrest in August 2017

On September 25th, a federal search warrant was executed at Nikparvar-Fard's residence where over 7,000 tablets of buprenorphine were seized. Nikparvar-Fard is the owner and operator of six Advanced Urgent Care facilities throughout Pennsylvania employing several physicians who are also under investigation. See [related article](#).

Nikparvar-Fard's Pennsylvania State Medical License was suspended on September 15, 2017 and a Request for an Order to Show Cause (revoking his DEA registration) is also pending.



Tablets of buprenorphine seized from Nikparvar-Fard's residence



Multiple prescription pads and Iranian passports seized from Nikparvar-Fard's residence

- Owner of 6 Urgent Care centers
- Largest re-distributor of buprenorphine in country
- 3-year investigation
- Medical license suspended
- DEA registration pending revocation

Enforcement Actions

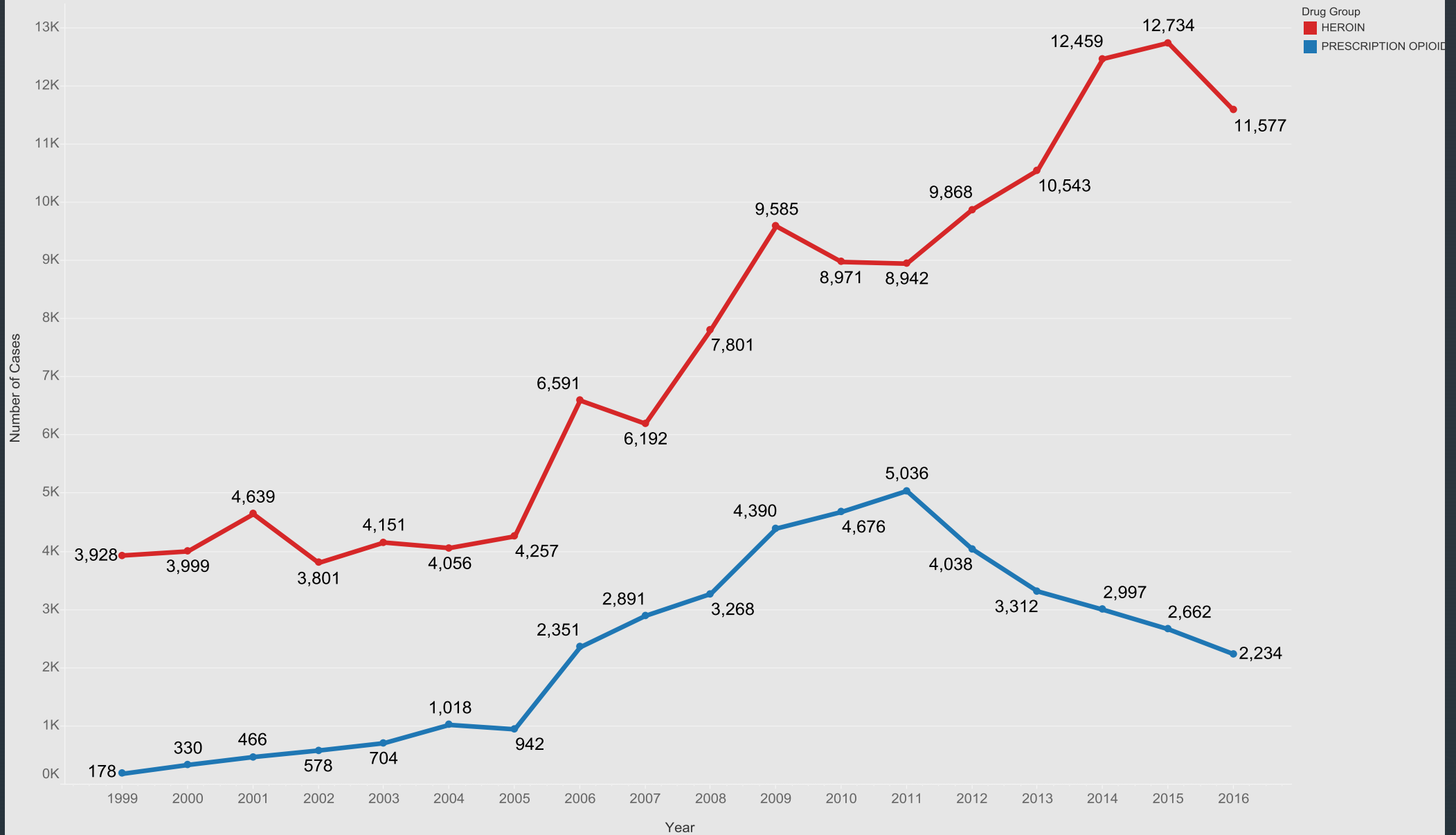


- In response to search warrant at nearby Urgent Care clinics, Doctors Express notified patients of lack of availability of narcotics in the office and “rare” prescribing.

IMPACT

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Prescription Opioid and Heroin Lab Analyzed Cases by Year, PA, 1999-2016

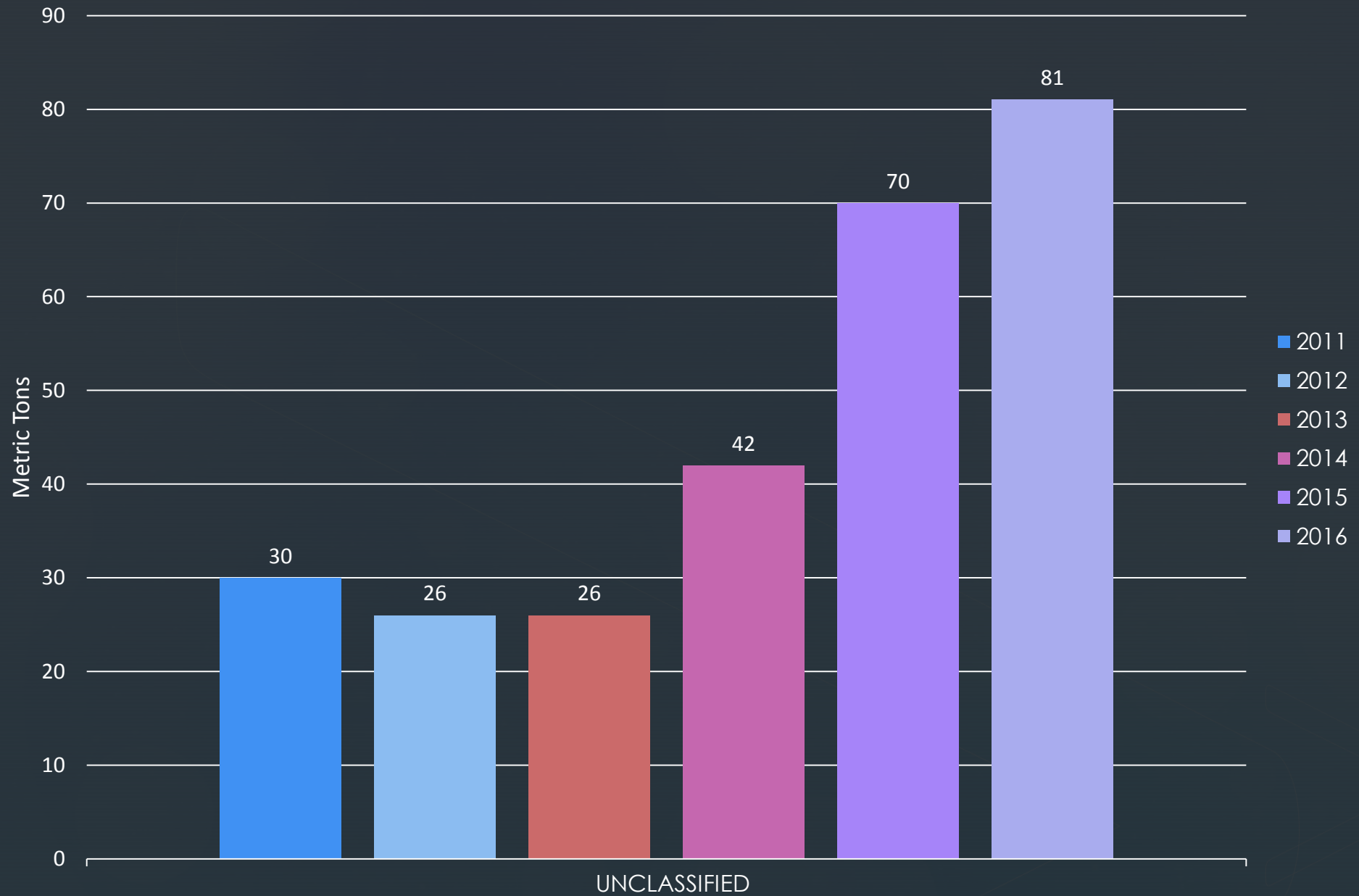


UNCLASSIFIED

Heroin

- Abundance of Heroin
 - Change in Production/Source
 - Late 2000's – decrease in cocaine movement by MX TCOs in order to increase heroin trafficking and profit
 - Early 2010's - Change in heroin production from SA to MX
 - Need to recoup lost revenue from marijuana sales
 - Response to demand in U.S.

Potential Pure Heroin Production in Mexico, 2011-2016

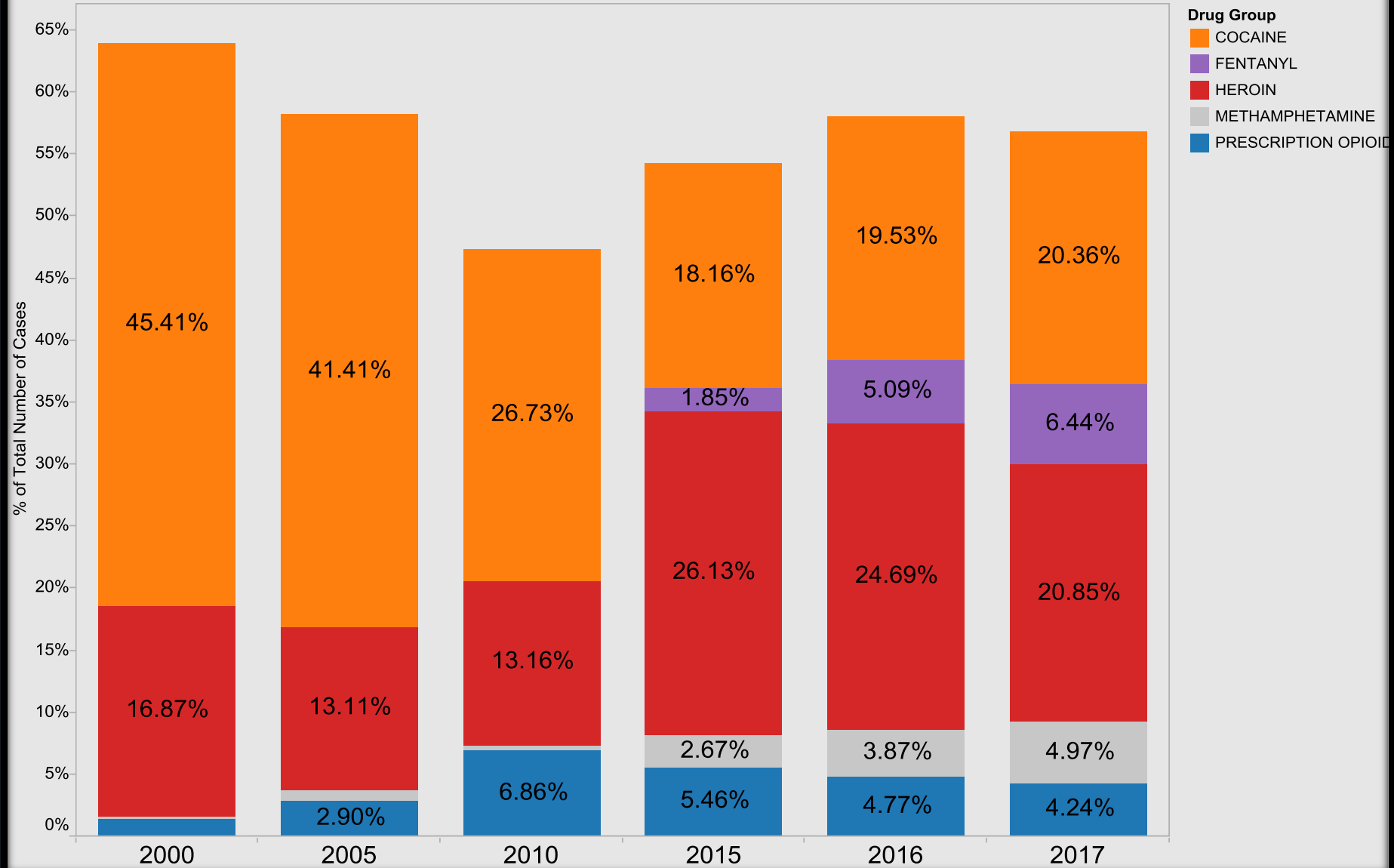


Heroin



UNCLASSIFIED

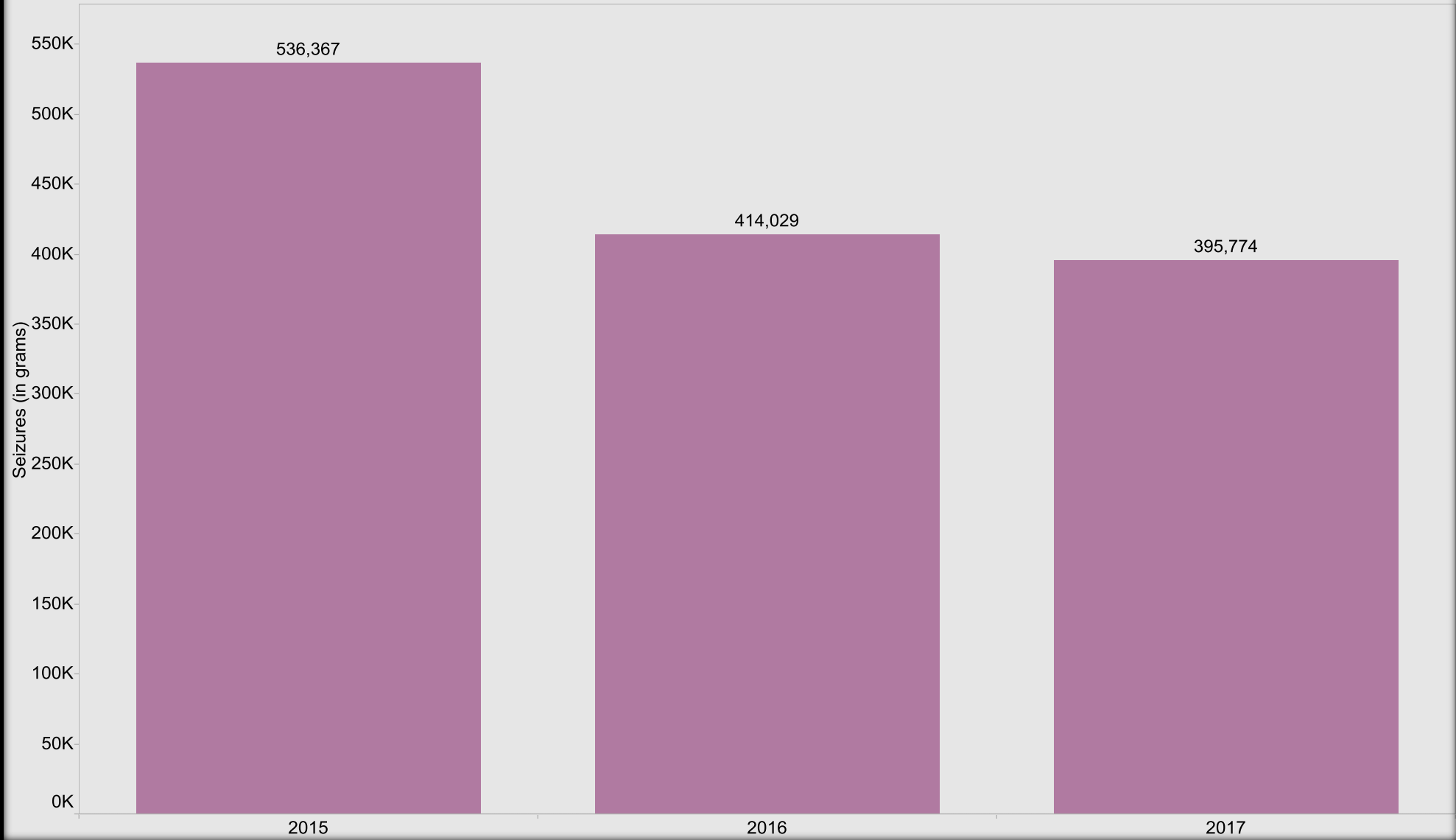
Seized (and analyzed) Drugs by Type, PA, 2000-2017



UNCLASSIFIED

Heroin Seizures by DEA NY, NJ, Philadelphia Divisions, 2015-2017

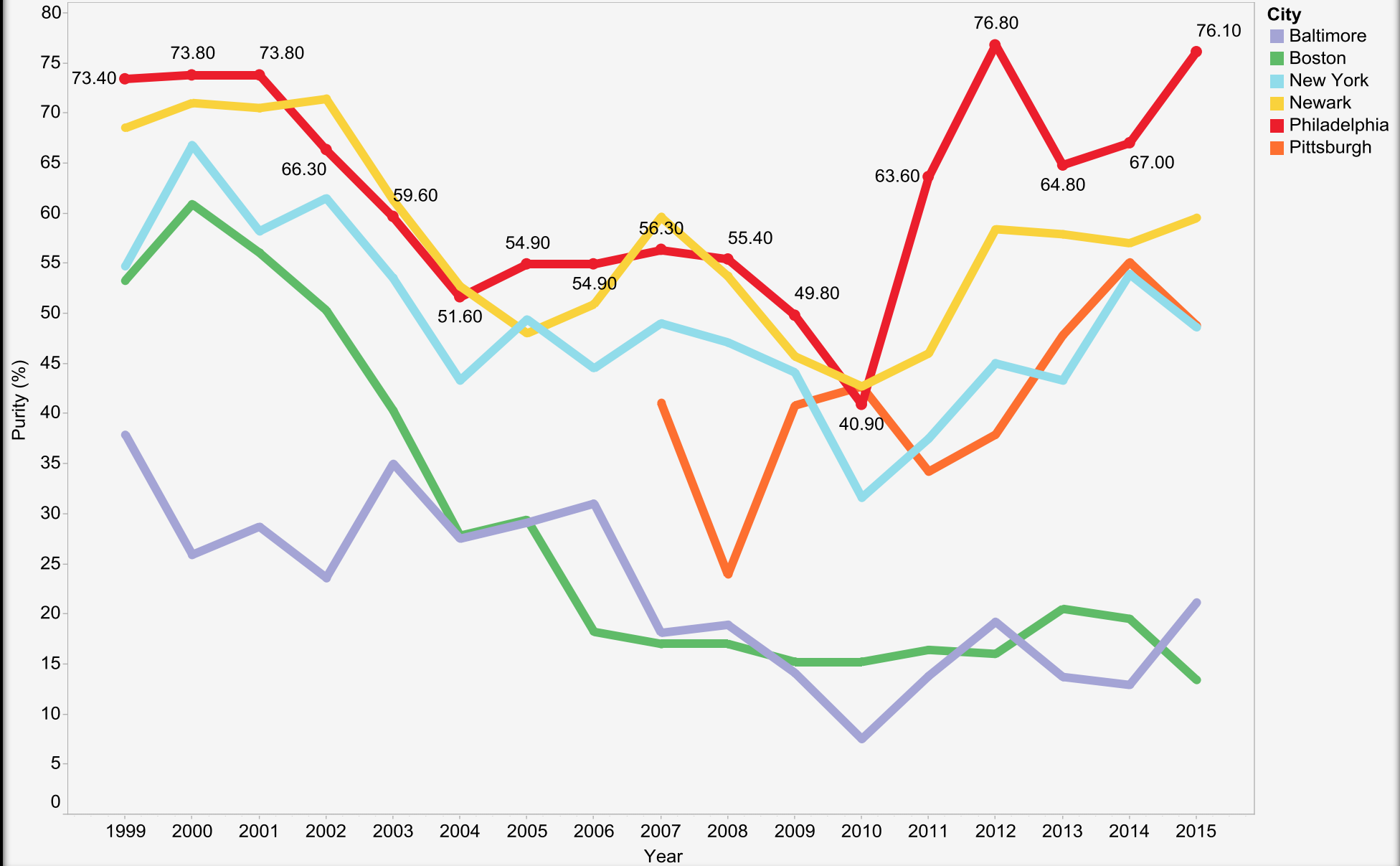
Seized Date



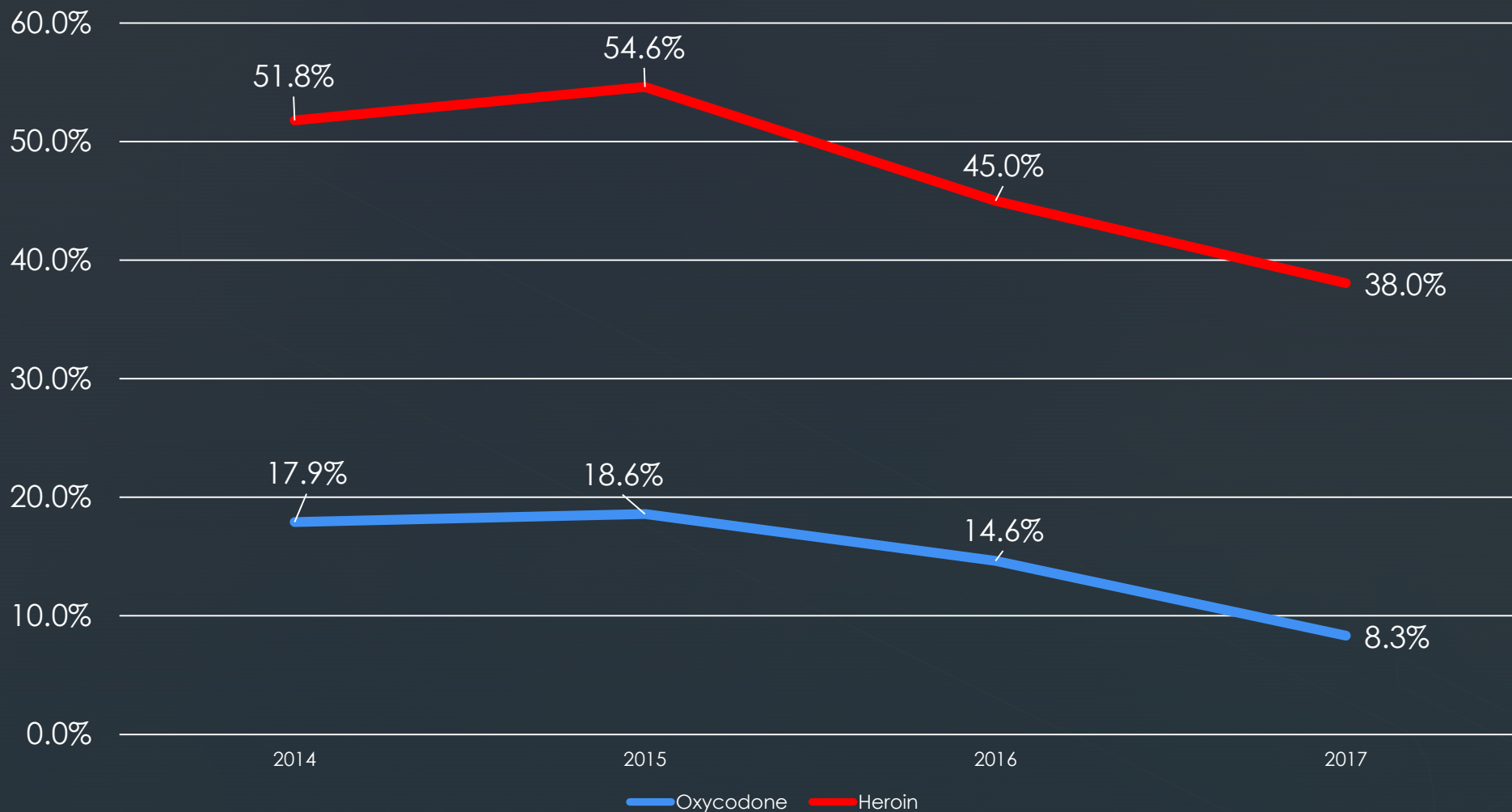
Heroin

- Heroin Types
 - Impact on purity and potential for adulteration
- Impact on Pennsylvania
 - Established heroin user base
 - Demand for highly pure product
 - Highest purity heroin in the country for 20 years
 - Wholesale purities >90%
 - Retail purities from 50-90%

Heroin Purity of DEA Retail Purchases, 1999-2015



Oxycodone and Heroin Presence in Pennsylvania Overdose Deaths



UNCLASSIFIED

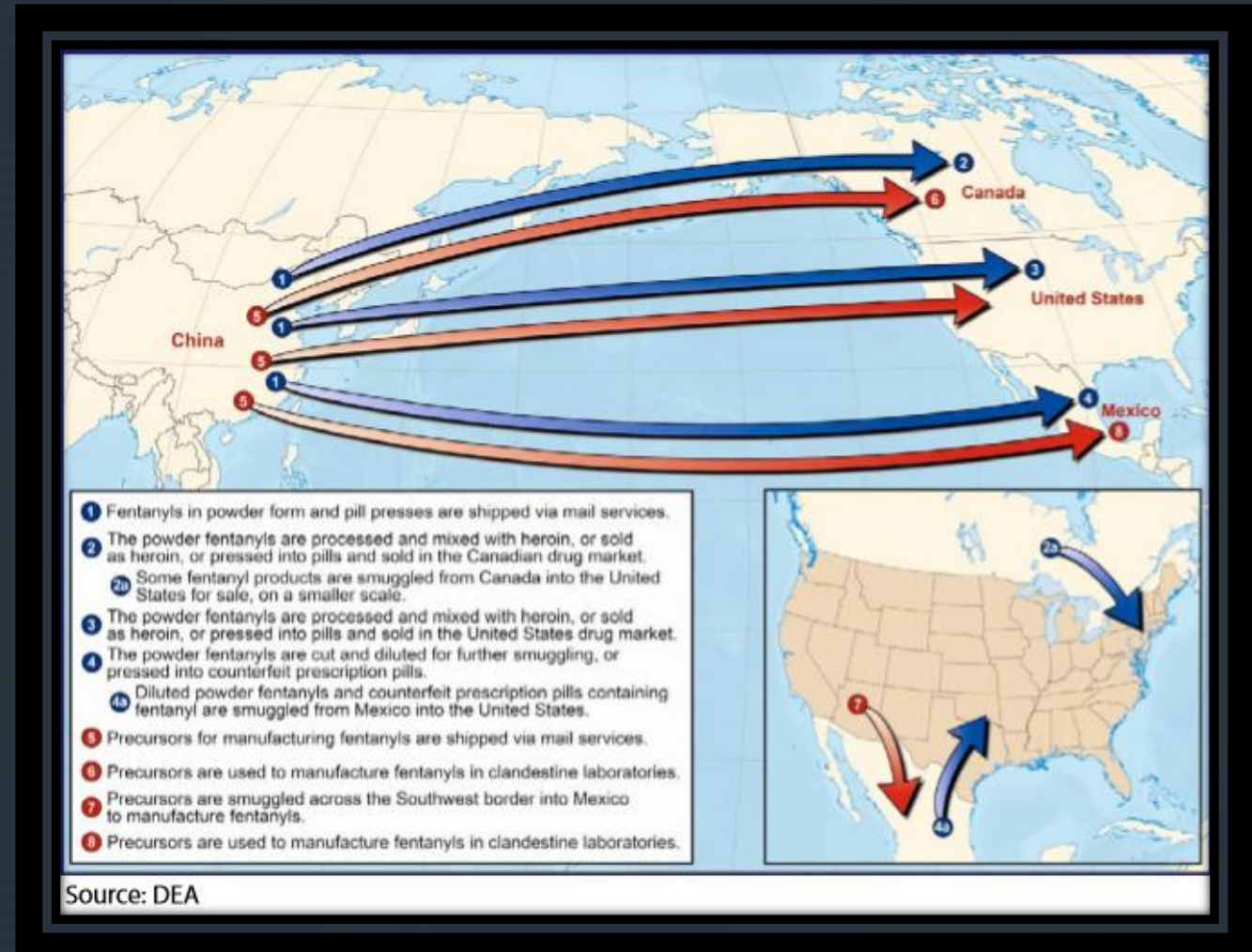
- ▶ If things weren't complicated enough....

Fentanyl

- Fentanyl
 - Introduced into illicit U.S. drug supply in 2013-2014 (after previous surge in 2006-2007)
 - 30-50x more potent than heroin; 50-100x more potent than morphine
 - Who makes it? Where does it come from?

Fentanyl

- Two primary production areas:
 - China supplies precursor chemicals and finished product
 - Mexico manufacturing fentanyl in clandestine labs





Poppy field in Mexico

Clandestine Drug Lab in Mexico



Entirely synthetic process. No plant materials, farmers, weather, etc.

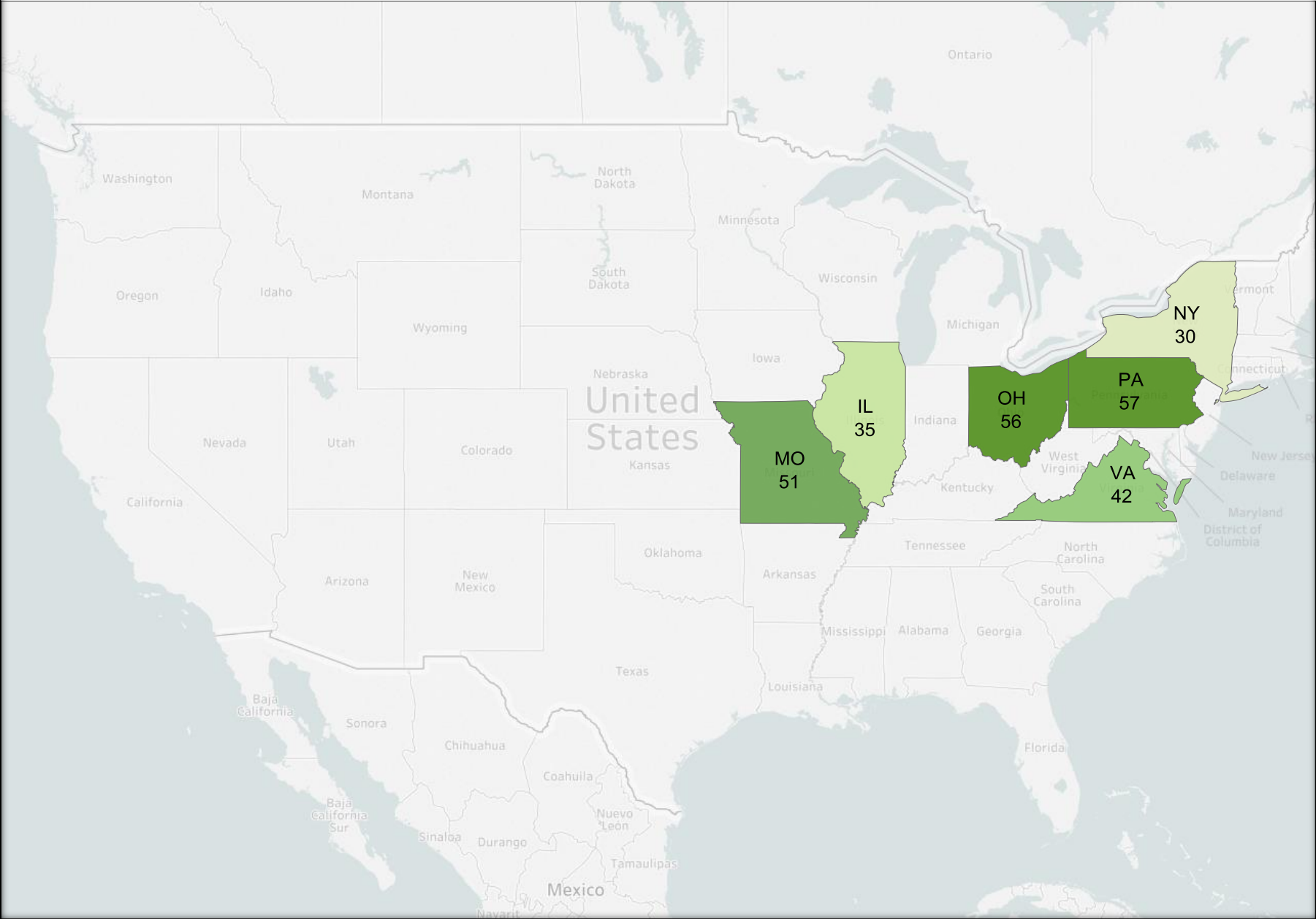
Why switch from heroin production to fentanyl production?

UNCLASSIFIED

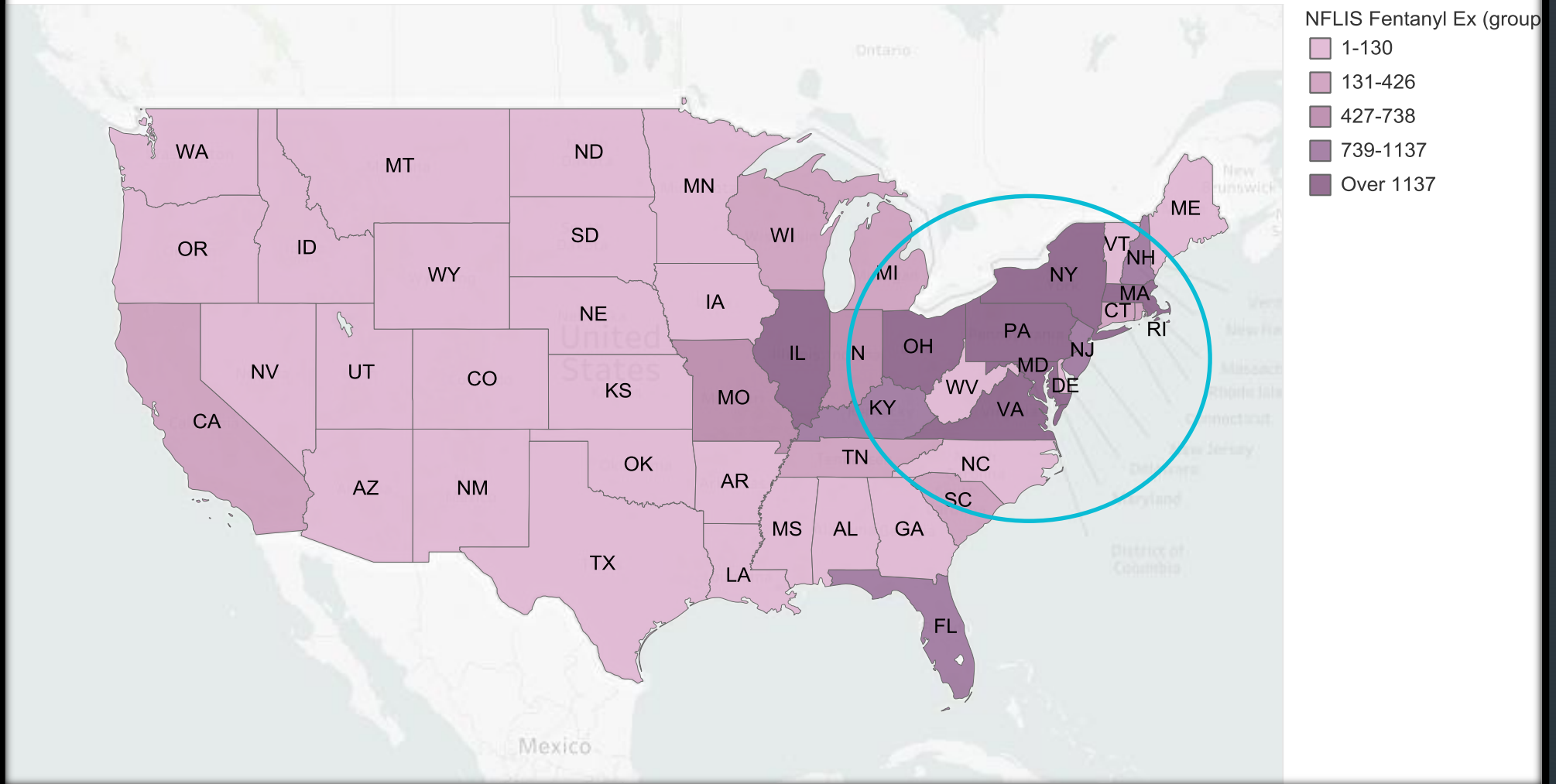
It's all about the Money

Drug	Cost per 1 KG to DTO	~ Number of KGs Produced from Original Drug Procurement	Wholesale Price per KG in Philadelphia	Revenue to DTO from 1 KG
Heroin	\$5,000-7,000 (Purchased from Mexico)	1 KG	\$65,000	\$65,000
Fentanyl	\$3,300-5,000	16-24 KGs	\$65,000	\$1,040,000 to 1,560,000

Fentanyl Exhibits by State, NFLIS, 2010



Fentanyl Exhibits by State, NFLIS, 2016



Fentanyl

- Who brings it, how does it get here, how is it packaged, how is it sold?
 - Mexican TCOs – traditional routes and methods
 - Mixed at street/mill level, not wholesale



Wholesale heroin and fentanyl seizure (packaged/marked separately). Tied to CJNG.

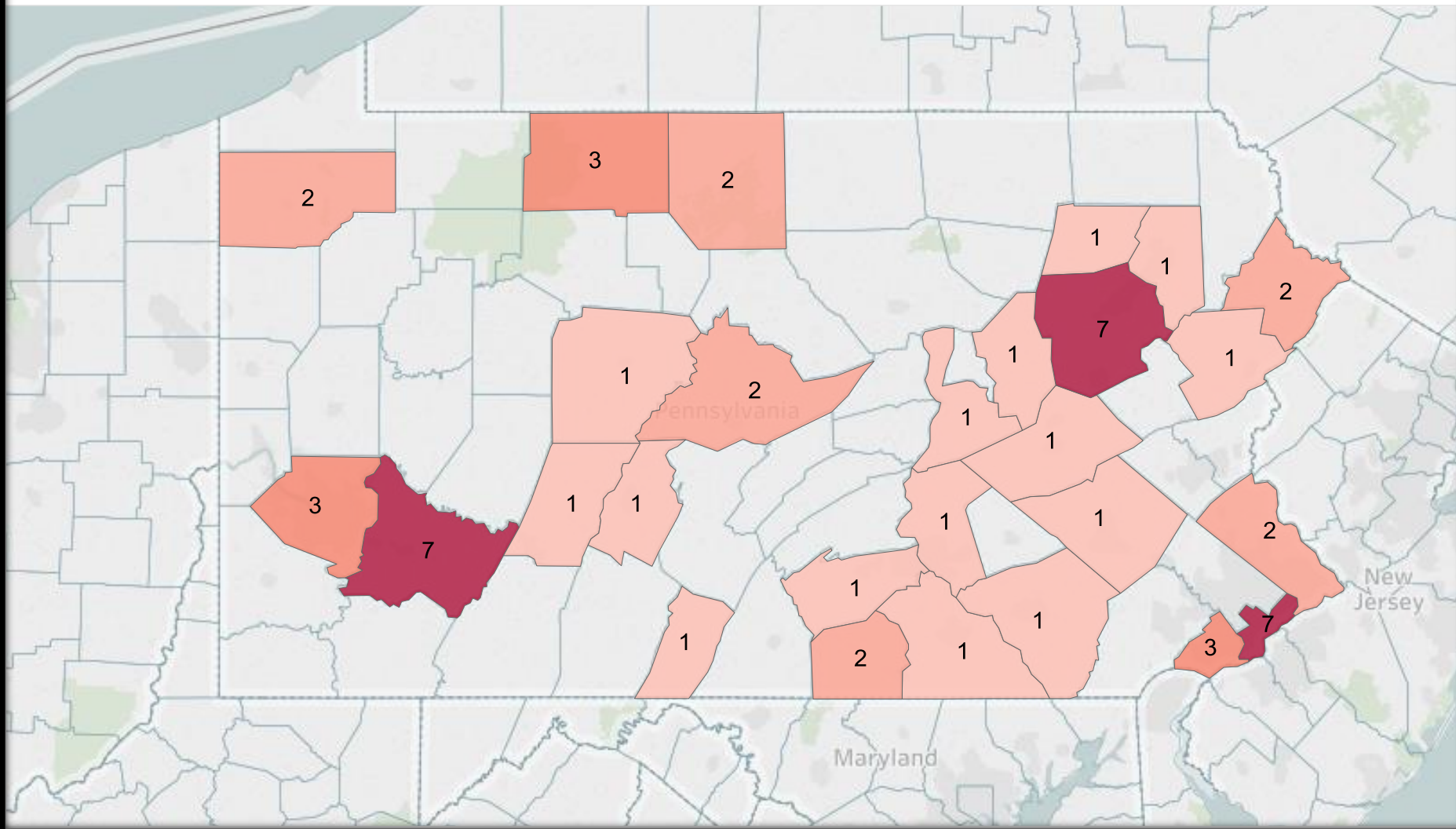


Heroin/fentanyl mills and packaging



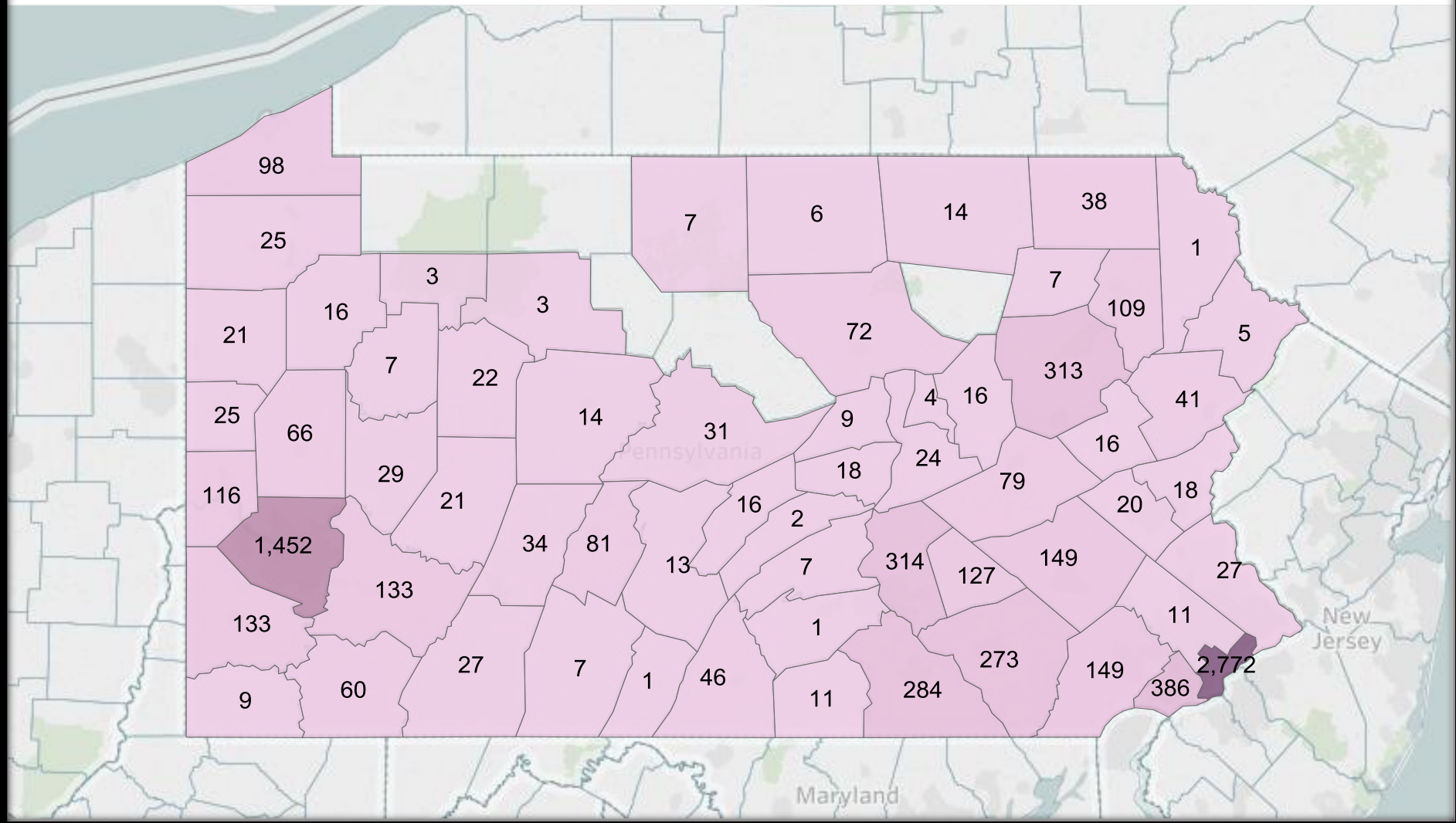
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Fentanyl by Number of Exhibits, PA, 2010



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Fentanyl by Number of Exhibits, PA, 2017



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Fentanyl

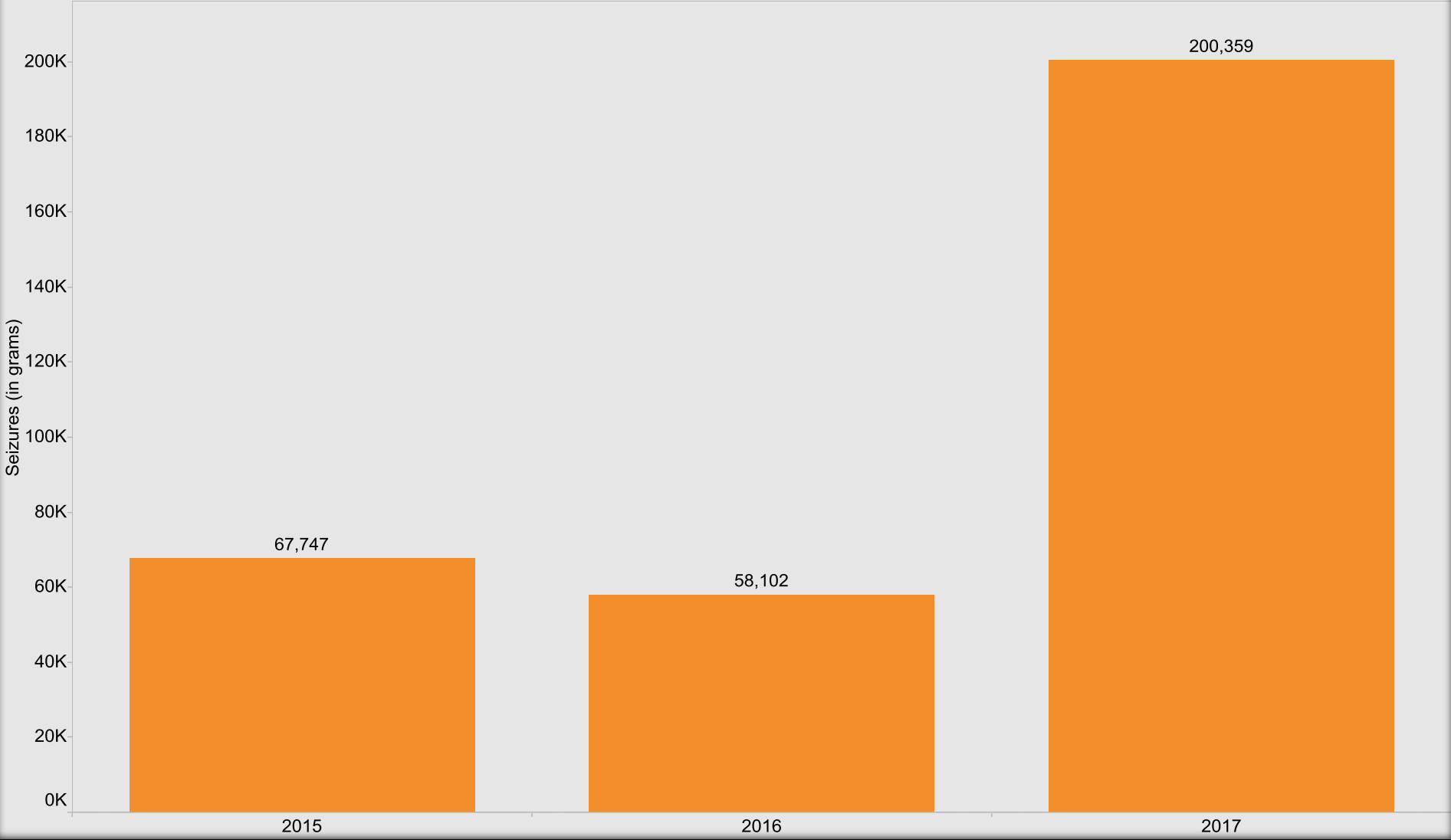
- Fentanyl purities
 - Nationwide purity of MX produced fentanyl averages 7%
 - 7% pure fentanyl is the equivalent of 300% pure heroin
- Increase in openly acknowledged sales of fentanyl



Alvarado-Robles and Flores-Solis had 141 pounds of pure fentanyl in their Queens apartment, enough to kill 32 million people, the Drug Enforcement Administration said. It was the largest seizure of the powerful opioid in U.S. history, according to the DEA. (Office of the Special Narcotics Prosecutor for the City of New York)

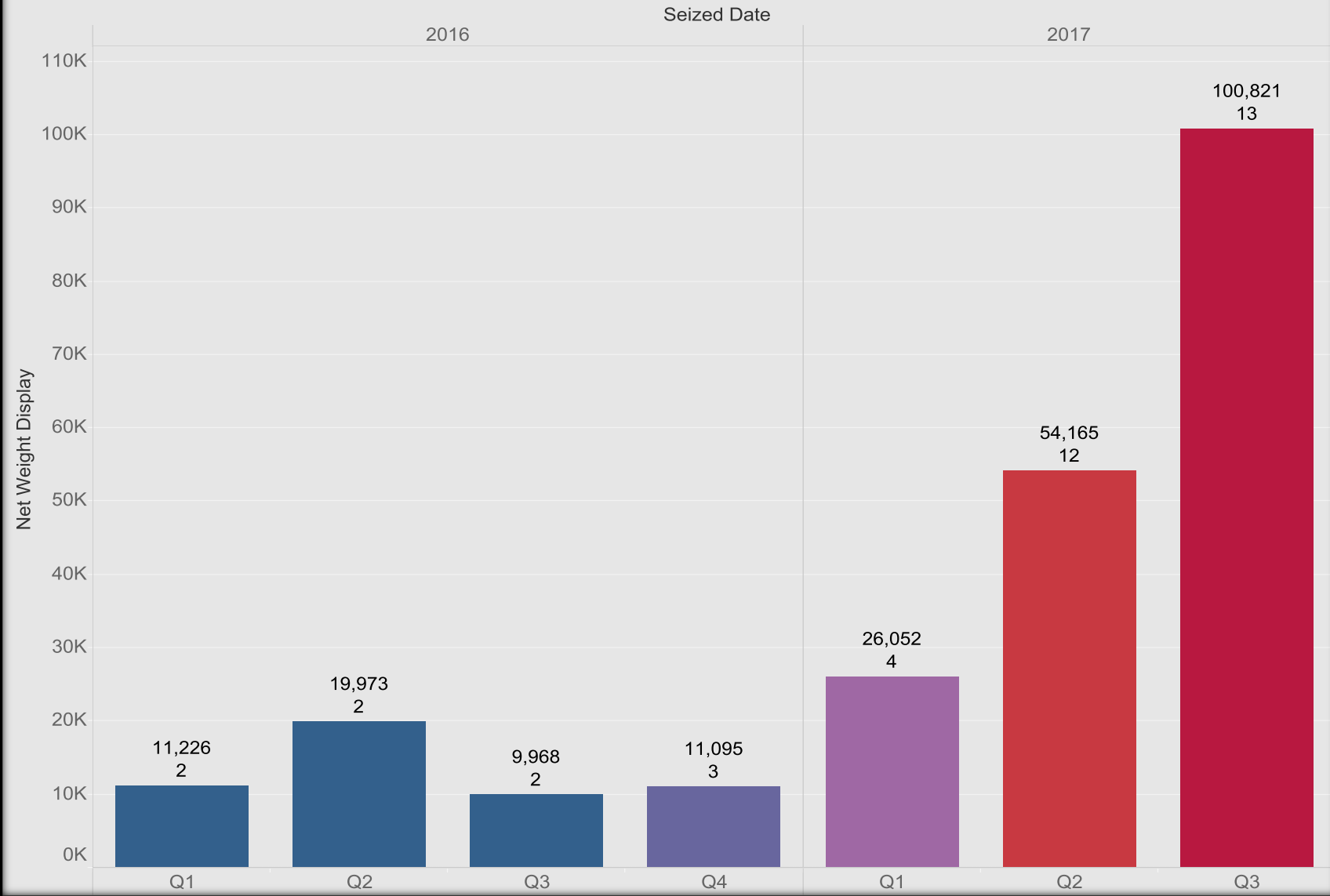
Fentanyl Seizures by DEA NY, NJ, Philadelphia Divisions, 2015-2017

Seized Date



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Fentanyl Seizures (> One Kilogram), DEA PA, NY, NJ; 2016-2017 (Q3)



UNCLASSIFIED

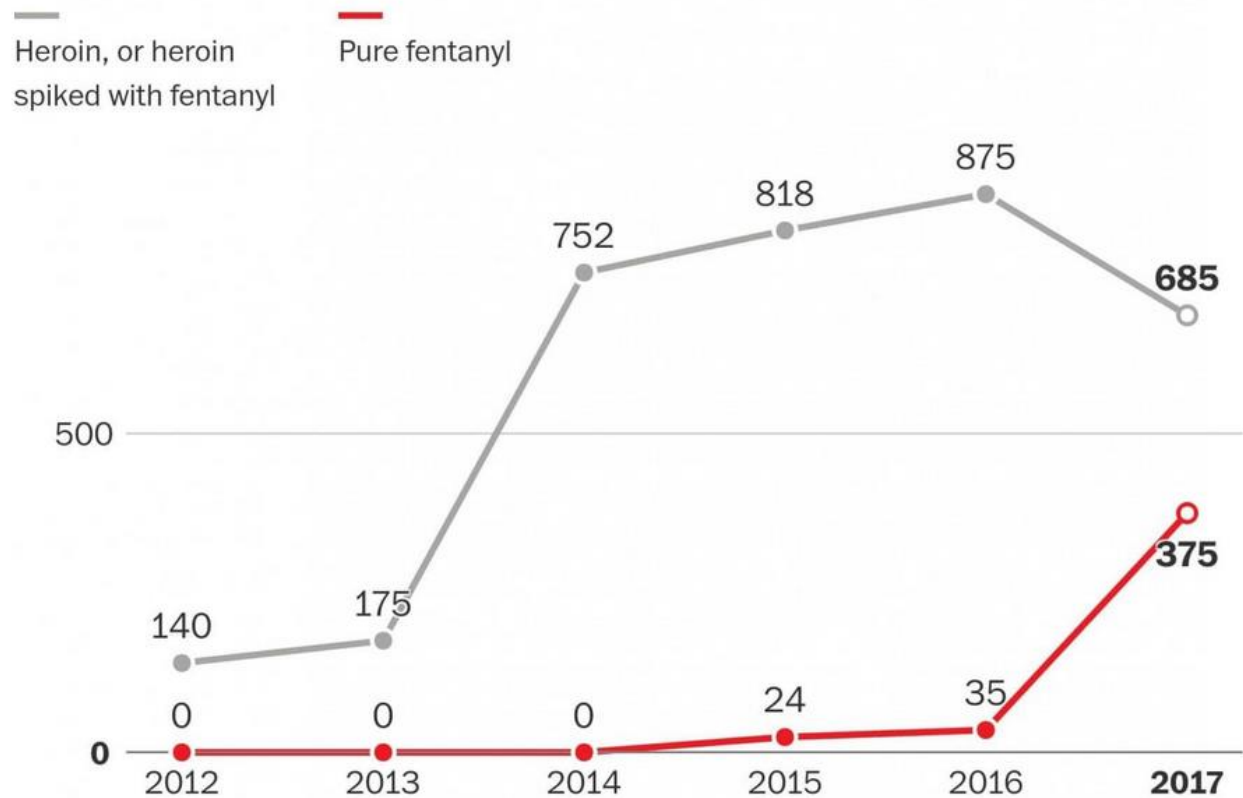
Is fentanyl replacing heroin?



UNCLASSIFIED

Heroin and fentanyl seizures in pounds

Fentanyl is increasingly replacing heroin on the streets. This year, narcotics agents in New York City have seized more than 375 pounds of pure fentanyl, a tenfold increase over 2016, while heroin is down.

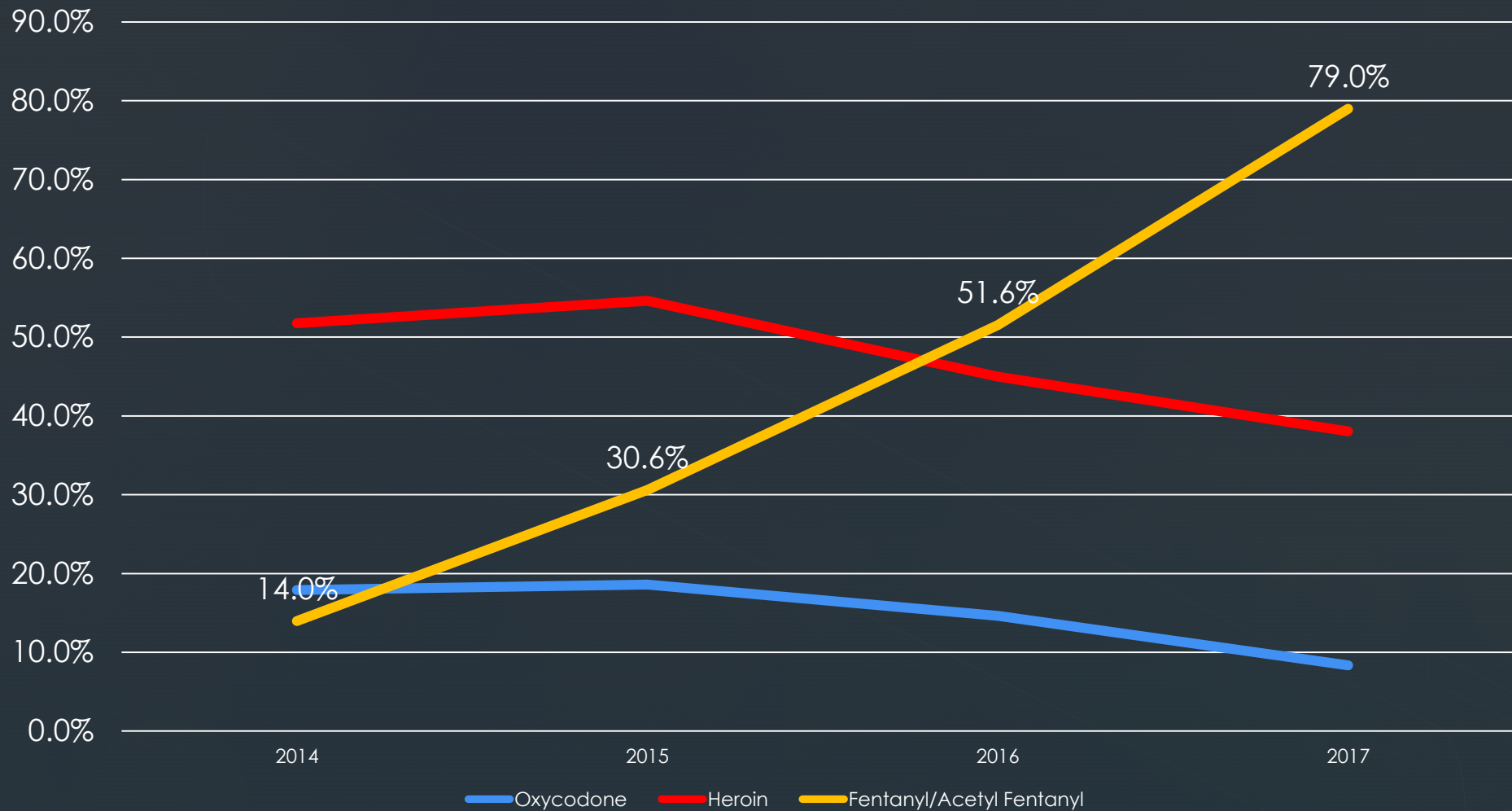


Source: Office of the Special Narcotics Prosecutor of New York City, New York City health department

Fentanyl

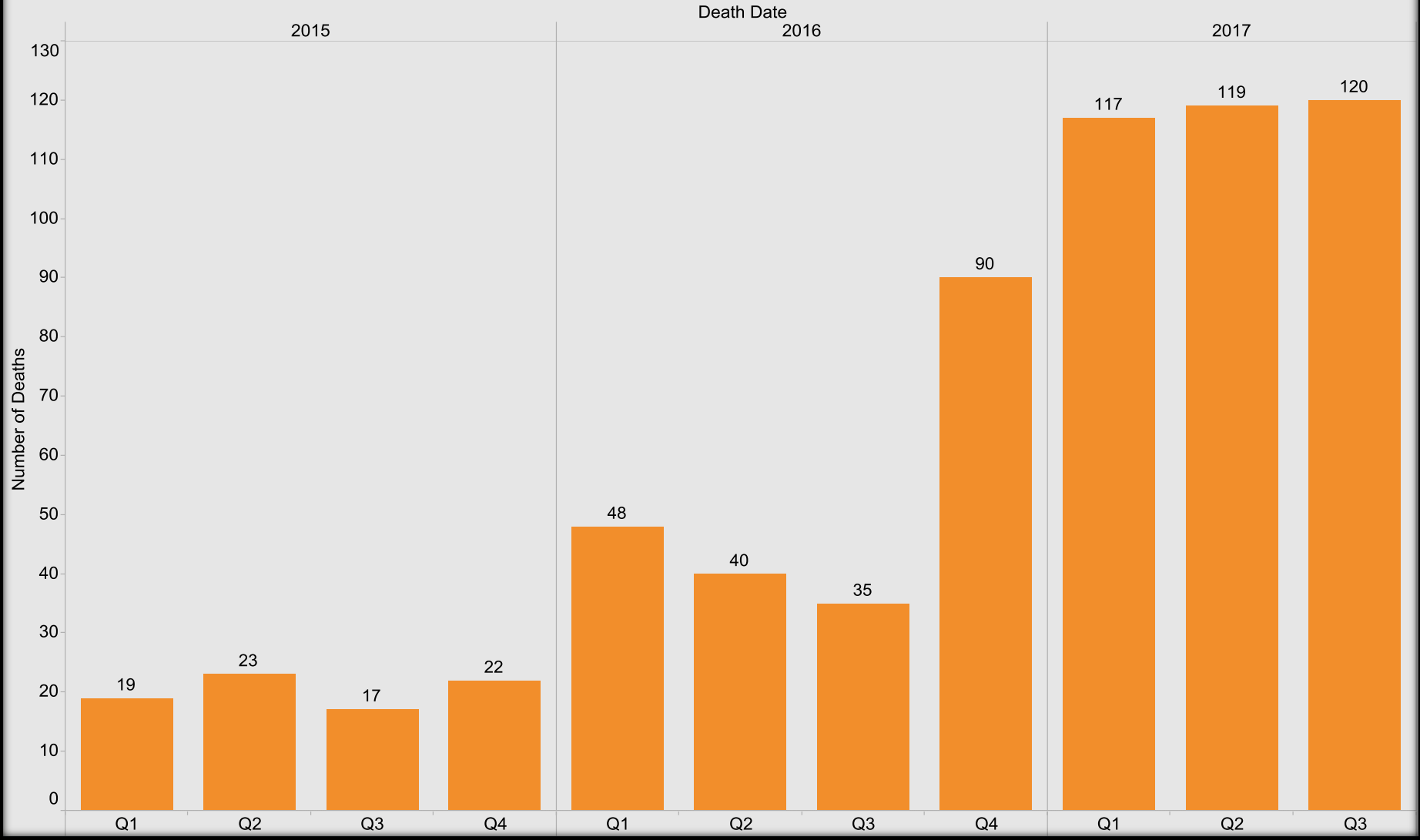
- Quantities of fentanyl per seizure have increased dramatically.
- Routine LE seizures of 15+ kilos per incident.
- Seizures of 65-100 kilos

Oxycodone, Heroin, and Fentanyl Presence in Pennsylvania Overdose Deaths



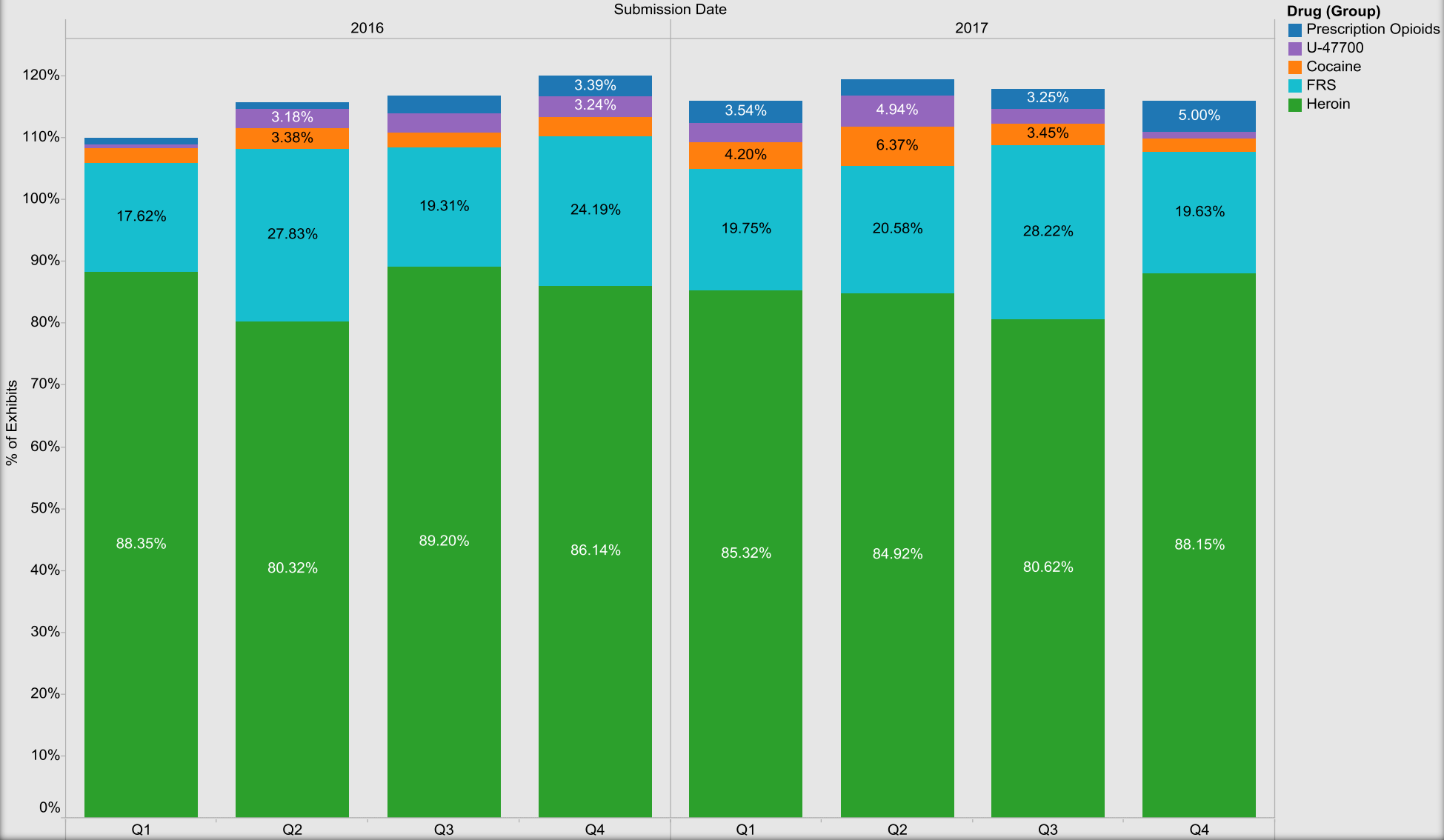
UNCLASSIFIED

Philadelphia Fentanyl Deaths without Heroin, 2015-17

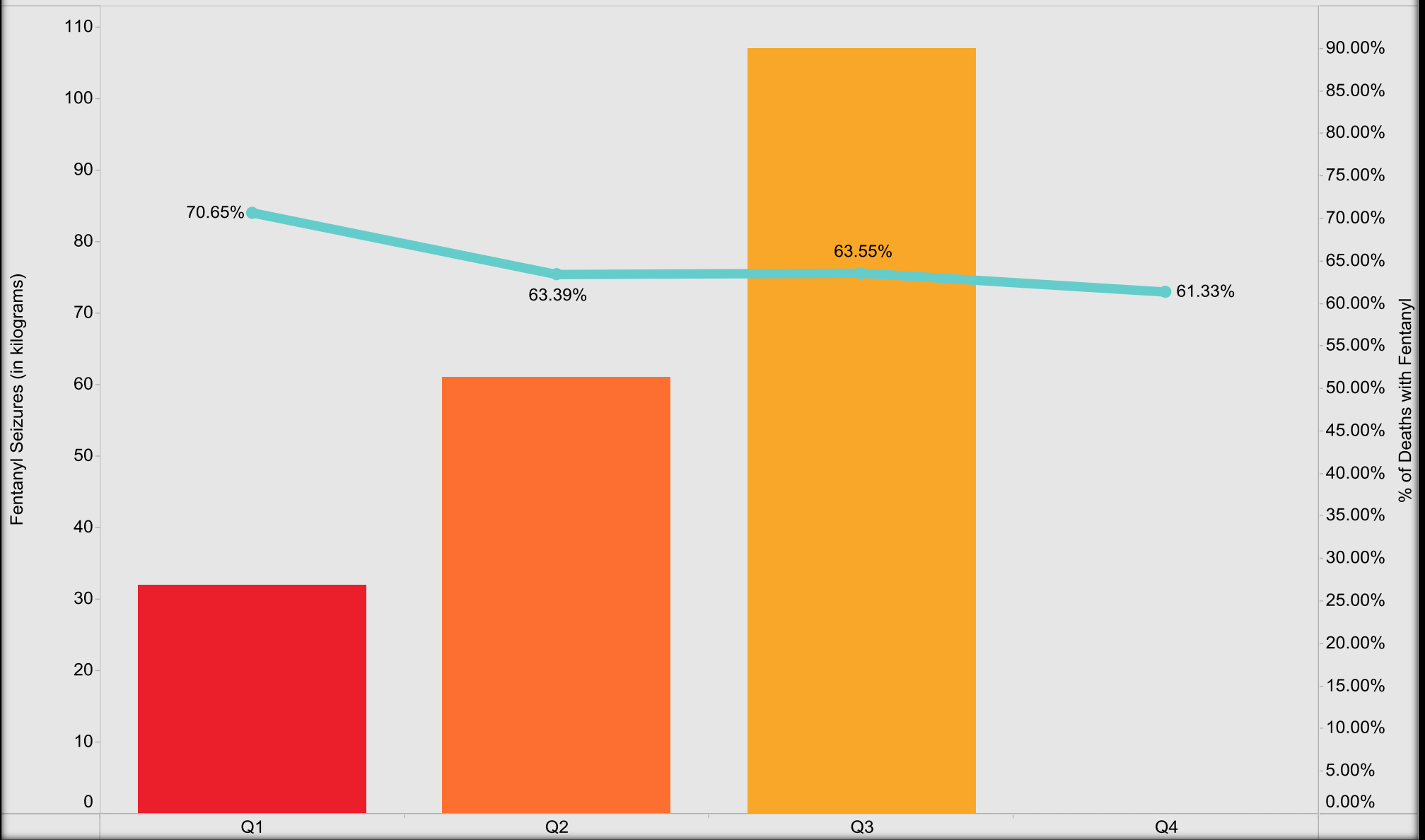


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Other Drugs Found with Fentanyl, PA, 2016-2017



Fentanyl Seizures in NE Region and Philadelphia Overdose Deaths Involving Fentanyl, 2017



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Fentanyl Related Substances

- What are they?
- Who brings it, how does it get here, how is it packaged, how is it sold?
 - Chinese chemical companies
 - Darkweb and Clearnet purchases
 - Routed through other countries for anonymity
 - Regional re-distributors filling darkweb orders
 - Attempts to circumvent scheduling/enforcement



Online Sales of Illegal Opioids from China Surge in U.S.

[查看简体中文版](#) | [查看繁體中文版](#)

By RON NIXON JAN. 24, 2018

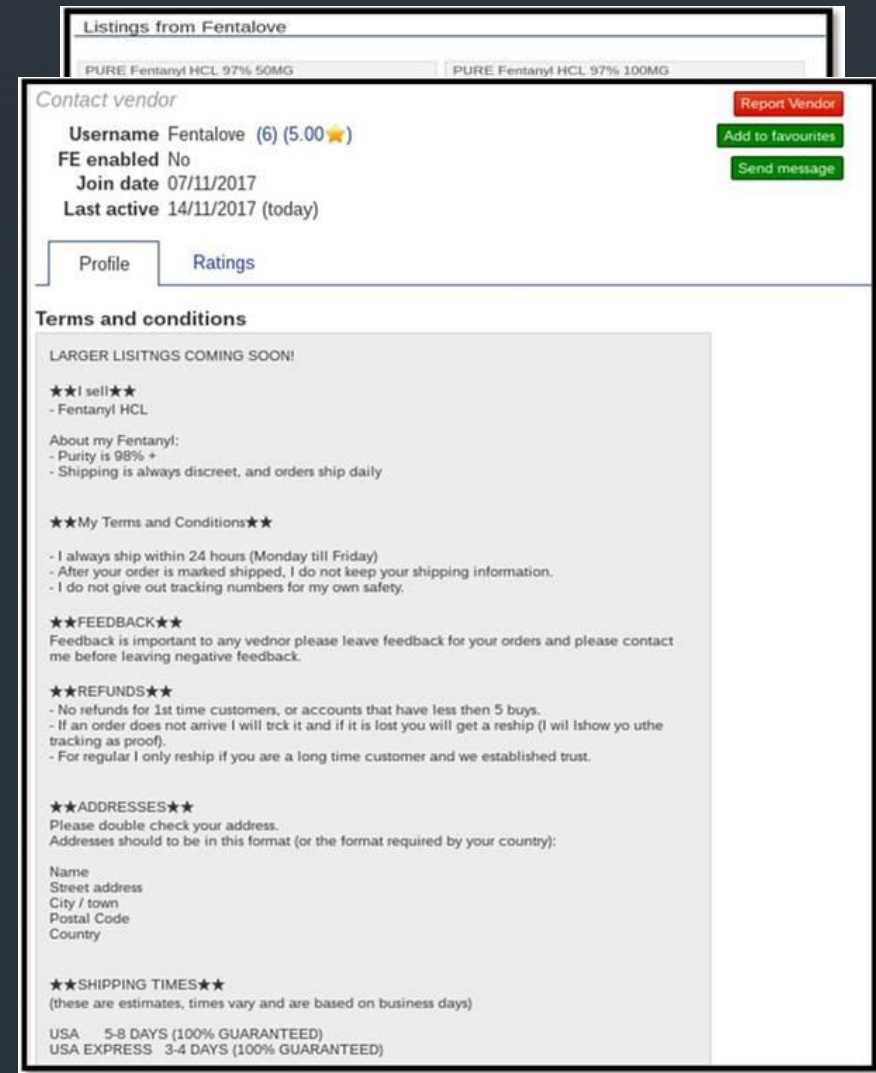


Fentanyl pills seized in Ohio. Cuyahoga County Medical Examiner's Office

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Fentanyl Related Substances

- Chinese fentanyl labs
 - Why are they producing?
 - Legal until 2016
 - Control of cathinones,
 - Abundance of chemists
 - Darkweb/Clearnet purchasing
 - More than 40 fentanyl related substances found by forensic laboratories



The screenshot shows a vendor profile for 'Fentalove' on a marketplace. The profile includes a 'Contact vendor' section with a 5.00 star rating, 'FE enabled No', 'Join date 07/11/2017', and 'Last active 14/11/2017 (today)'. There are buttons for 'Report Vendor', 'Add to favourites', and 'Send message'. Below this is a 'Terms and conditions' section with several paragraphs of text detailing shipping, feedback, and refund policies. The text is as follows:

Terms and conditions

LARGER LISITNGS COMING SOON!

★★I sell★★
- Fentanyl HCL

About my Fentanyl:
- Purity is 98% +
- Shipping is always discreet, and orders ship daily

★★My Terms and Conditions★★

- I always ship within 24 hours (Monday till Friday)
- After your order is marked shipped, I do not keep your shipping information.
- I do not give out tracking numbers for my own safety.

★★FEEDBACK★★
Feedback is important to any vednor please leave feedback for your orders and please contact me before leaving negative feedback.

★★REFUNDS★★
- No refunds for 1st time customers, or accounts that have less then 5 buys.
- If an order does not arrive I will trck it and if it is lost you will get a reshup (I wil lshow yo uthe tracking as proof).
- For regular I only reshup if you are a long time customer and we established trust.

★★ADDRESSES★★
Please double check your address.
Addresses should to be in this format (or the format required by your country):

Name
Street address
City / town
Postal Code
Country

★★SHIPPING TIMES★★
(these are estimates, times vary and are based on business days)

USA 5-8 DAYS (100% GUARANTEED)
USA EXPRESS 3-4 DAYS (100% GUARANTEED)

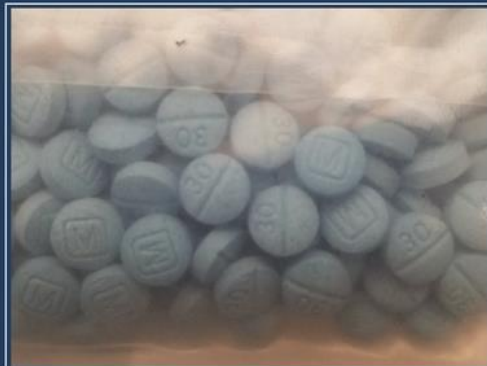
Fentanyl Related Substances

- 3-methylfentanyl
- 3-methylthiofentanyl
- 4-methoxy-butanyl fentanyl
- Acetyl norfentanyl
- Acetyl-alpha-methylfentanyl
- Acetylfentanyl
- Acryl-alpha-methylfentanyl
- Acrylfentanyl
- Alfentanil
- Alpha-methylfentanyl
- Alpha-methylthiofentanyl
- Benzodioxole fentanyl
- Benzoylbenzyl fentanyl
- Benzylfentanyl
- Beta-hydroxy-3-methylfentanyl
- Beta-hydroxyfentanyl
- Beta-hydroxythiofentanyl
- Butanoyl 4-fluoro fentanyl
- Butyryl fentanyl
- Carfentanil
- Crotonyl fentanyl
- Cyclopentyl fentanyl
- Cyclopropyl fentanyl
- Fluorobutyryl fentanyl
- Fluorofentanyl
- Fluoroisobutyryl fentanyl
- Furanyl fentanyl
- Isobutyryl fentanyl
- Lofentanil
- Methoxyacetyl fentanyl
- N-isobutanoyl 4-fluoro fentanyl
- Ortho-fluorofentanyl
- P-fluorobutyryl fentanyl
- P-fluorofentanyl
- P-fluoroisobutyryl fentanyl
- Phenyl fentanyl
- Remifentanil
- Sufentanil
- Tetrahydrofuran fentanyl
- Thenylfentanyl
- Thiofentanyl
- Thiofuranyl fentanyl

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OPERATION BLUE DEATH



Fentanyl-laced Pills

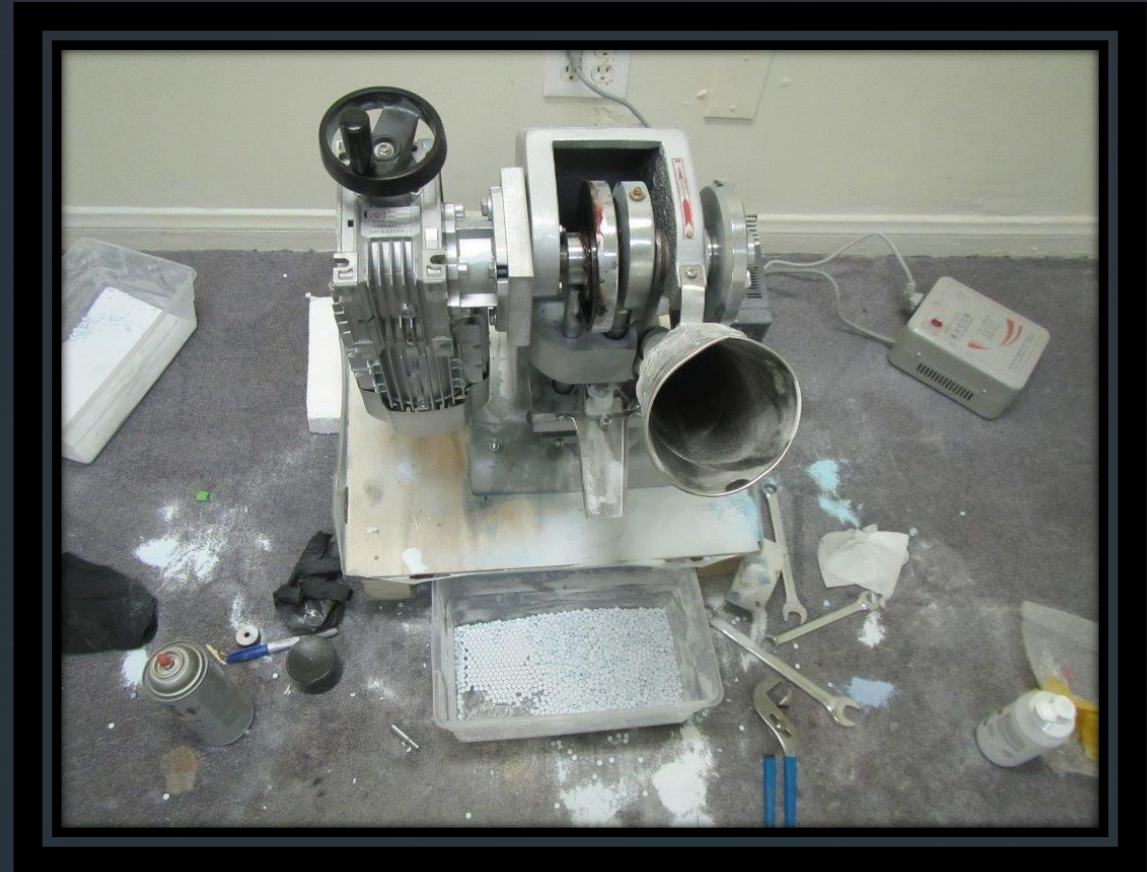


Oxycodone



► It's all about the Money

- Approximately 500,000 counterfeit pills can be manufactured from one kilogram of fentanyl (2mgs per pill)
- Retail prices between \$10 and \$20 per pill
- Potential revenue \$5 million on one kilogram

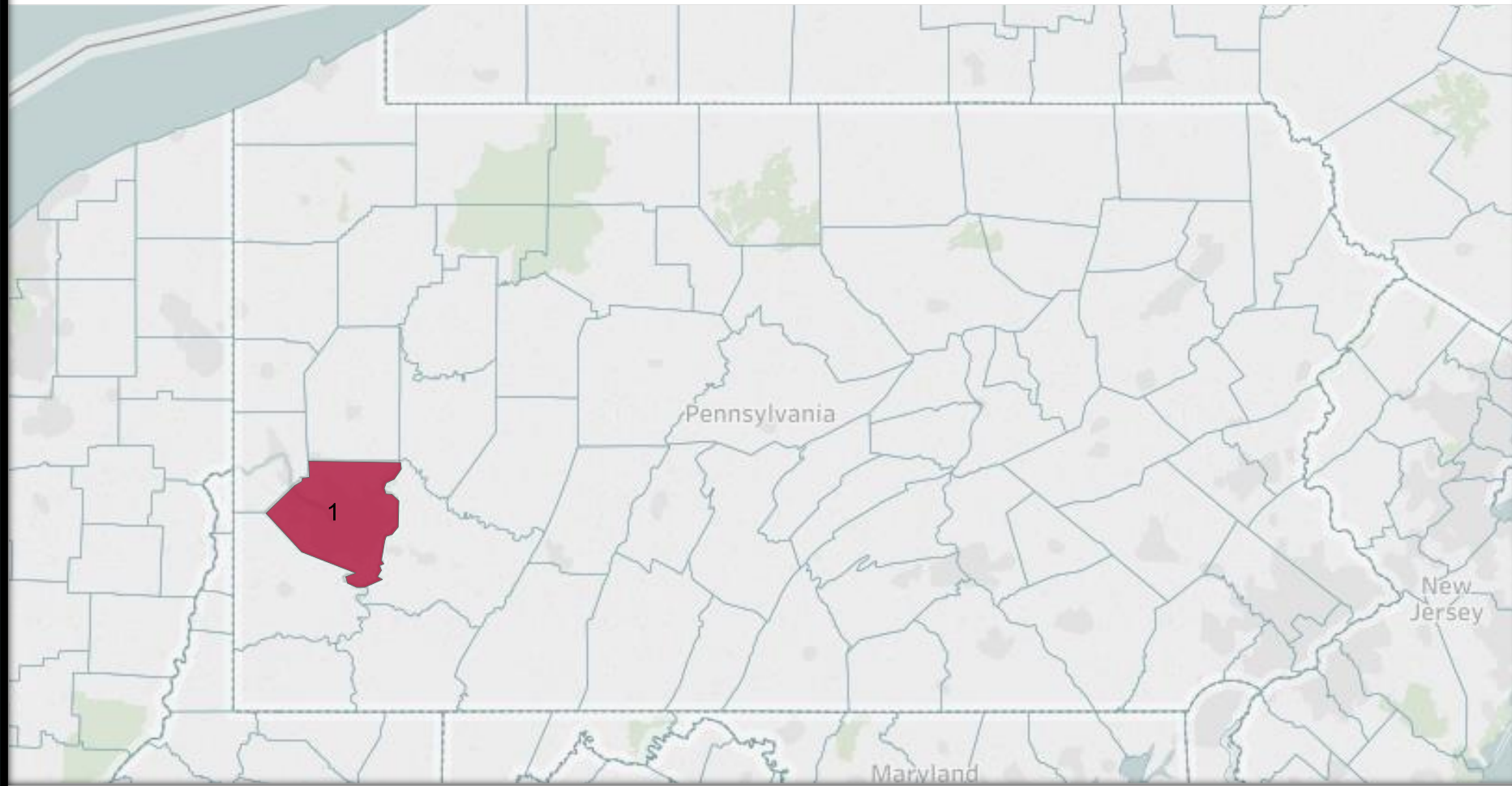


Fentanyl Related Substances

DA: Fentanyl and carfentanil from China seized in Montgomery County drug investigation

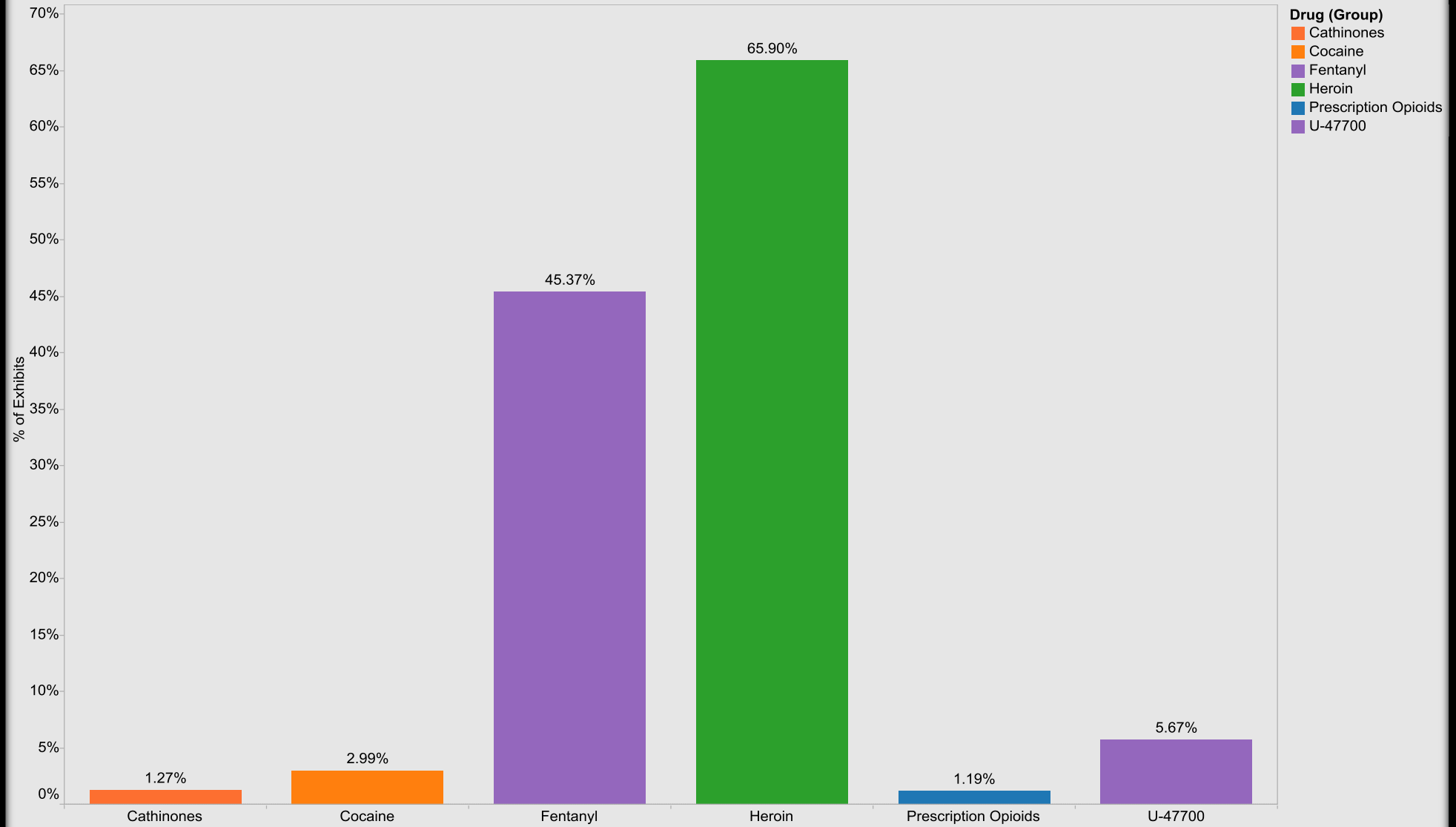


Fentanyl Related Substances by Number of Exhibits, PA, 2012



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Drugs Found in Combination with Fentanyl Related Substances, PA, 2014-2017



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Fentanyl

- What is b
production
- Political

Opioid epidemic: China says it will work with US to fight illicit shipments



Yu Haibin of the China National Narcotics Control Commission speaks during a press conference held in Beijing, China, Thursday. Yu said Thursday there was little evidence showing China was the source of much of the chemicals used in the production of the powerful opioid fentanyl. Ng Han Guan — The Associated Press

Fentanyl

- What is being done to address fentanyl production?
 - Worldwide scheduling of 4-ANPP (fentanyl precursor)
 - Fentanyl lab identification and seizures in Mexico
 - Darkweb law enforcement operations

OPERATION BAYONE HIJACKED AN ENTIRE THE BIGGEST DARK WEB TAKEDOWN YET SENDS BLACK MARKETS REELING

T




Operation Decrypt:
"The dark net is not as anonymous as you think."

SEE LISTED FORMER ALIBABA MEMBER #571/1101

National Security

Justice Department reveals charges against Chinese fentanyl distributors



(Reuters)

Homicide Investigation Leads Orlando DO HIDTA 1 to Shut Down 'Dark Web' Seller



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Efforts

- What is DEA doing?
 - Increased scrutiny of DEA registrants, including manufacturers
 - Drug Take Back Initiative
 - Identification and investigation of overseas heroin/fentanyl suppliers
 - Identification and targeting of regional re-suppliers of fentanyl/fentanyl related substances
 - Identification and dismantlement of Mexican fentanyl labs
 - Control of precursor chemicals
 - Coordination with foreign counterparts in dismantling darkweb marketplaces
 - Scheduling of all fentanyl-related substances in late 2017



www.dea.gov
U.S. Department of Justice
Drug Enforcement Administration
Special Testing and Research Laboratory



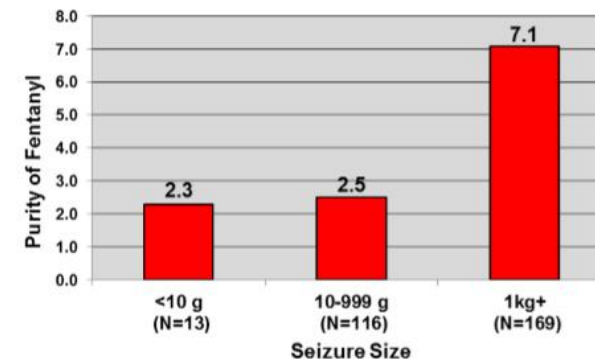
January 2018

Fentanyl Signature Profiling Program Report

This past year, through the Fentanyl Signature Profiling Program (FSPP), in-depth chemical analyses were performed on fentanyl and fentanyl-related exhibits obtained from seizures made throughout the United States. Analytical methodologies developed at the Special Testing and Research Laboratory (SFL1) through *Operation Death Dragon*, give in-depth reporting on seizures and also link seizures for intelligence purposes. This report details the results and conclusions derived from these analyses which are reported on a quarterly basis. FSPP data is not intended to reflect U.S. market share, but is rather a snapshot of current trends. Data is reported for all seizures examined that were seized within one calendar year of this report.

For this reporting period, 386 fentanyl and


Average Fentanyl Powder Purity by Seizure Size*
Seized CY 2017



*Seizures of very high purity fentanyl suspected as direct imports from China not included.

The following table summarizes the number of samples, total kg seized, and purity by state.

Efforts



The screenshot displays the Federal Register website interface. At the top left is the Department of Justice seal. The main header reads "FEDERAL REGISTER" with the subtitle "The Daily Journal of the United States Government". On the right, there are links for "Sign in" and "Sign up". Below the header is a blue bar with a "Rule" icon. The main title of the document is "Schedules of Controlled Substances: Temporary Placement of Fentanyl-Related Substances in Schedule I". Below the title, it states "A Rule by the Drug Enforcement Administration on 02/06/2018". The document is categorized as a "PUBLISHED DOCUMENT". The content is organized into three sections: "AGENCY:", "ACTION:", and "SUMMARY:". The "AGENCY:" section identifies the Drug Enforcement Administration, Department of Justice. The "ACTION:" section describes a temporary amendment and scheduling order. The "SUMMARY:" section provides a detailed overview of the rule's purpose and scope. On the right side, a "DOCUMENT DETAILS" sidebar lists key information: "Printed version: PDF", "Publication Date: 02/06/2018", "Agencies: Drug Enforcement Administration", "Dates: This temporary scheduling order is effective February 6, 2018, until February 6, 2020. If this order is extended or made permanent, the DEA will publish a document in the Federal Register.", "Effective Date: 02/06/2018", "Document Type: Rule", "Document Citation: 83 FR 5188", and "Page: 5188-5192 (5 pages)".

FEDERAL REGISTER
The Daily Journal of the United States Government

Sign in Sign up

Rule

Schedules of Controlled Substances: Temporary Placement of Fentanyl-Related Substances in Schedule I

A Rule by the Drug Enforcement Administration on 02/06/2018

PUBLISHED DOCUMENT

AGENCY:
Drug Enforcement Administration, Department of Justice.

ACTION:
Temporary amendment; temporary scheduling order.

SUMMARY:
The Administrator of the Drug Enforcement Administration is issuing this temporary scheduling order to schedule fentanyl-related substances that are not currently listed in any schedule of the Controlled Substances Act (CSA) and their isomers, esters, ethers, salts and salts of isomers, esters, and ethers in schedule I. This action is based on a finding by the Administrator that the placement of these synthetic opioids in schedule I is necessary to avoid an imminent hazard to the public safety. As a result of this order, the regulatory controls and administrative, civil, and criminal sanctions applicable to schedule I controlled substances will be imposed on persons who handle (manufacture, distribute, reverse distribute, import, export, engage in research, conduct instructional activities or chemical analysis, or possess), or propose to handle fentanyl-related substances.

DOCUMENT DETAILS

Printed version:
[PDF](#)

Publication Date:
02/06/2018

Agencies:
[Drug Enforcement Administration](#)

Dates:
This temporary scheduling order is effective February 6, 2018, until February 6, 2020. If this order is extended or made permanent, the DEA will publish a document in the Federal Register.

Effective Date:
02/06/2018

Document Type:
Rule

Document Citation:
83 FR 5188

Page:
5188-5192 (5 pages)

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Resources

- Overdose Free PA (www.overdosefreepa.pitt.edu)
- PA Prescription Drug Monitoring Program (www.doh.pa.gov/PDMP)
- Overdose Information Network (ODIN)
- DEA Lab and Seizure Data



OverdoseFreePA

a partnership of Pennsylvania communities united to fight the opioid overdose crisis

Emergency

Opioid overdose is a public health and safety crisis.
Be Informed.



Messages of Hope

Learn about personal experiences and community actions to help those recovering from substance use disorder.



PA Stop: Five Questions with Jamie Drake



Carfentanil in Pennsylvania DEA



Cocaine/Fentanyl Combination in Pennsylvania DEA



Free Overdose Prevention Presentation: Blair County



Warm Hand-off Regional Summit - Southcentral Region

Read All

Know the Facts

Find Local Resources

Make an Impact

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View Overdose Death Data

Select Counties

Adams

Allegheny

Armstrong

Beaver

Berks

Butler

Centre

Chester

Clarion

Clinton

Crawford

Dauphin

Fayette

Franklin

Fulton

Indiana

Jefferson

Lackawanna

Lancaster

Lawrence

Luzerne

Lycoming

Mercer

Monroe

Montgomery

Somerset

Susquehanna

Union

Westmoreland

Wyoming

York

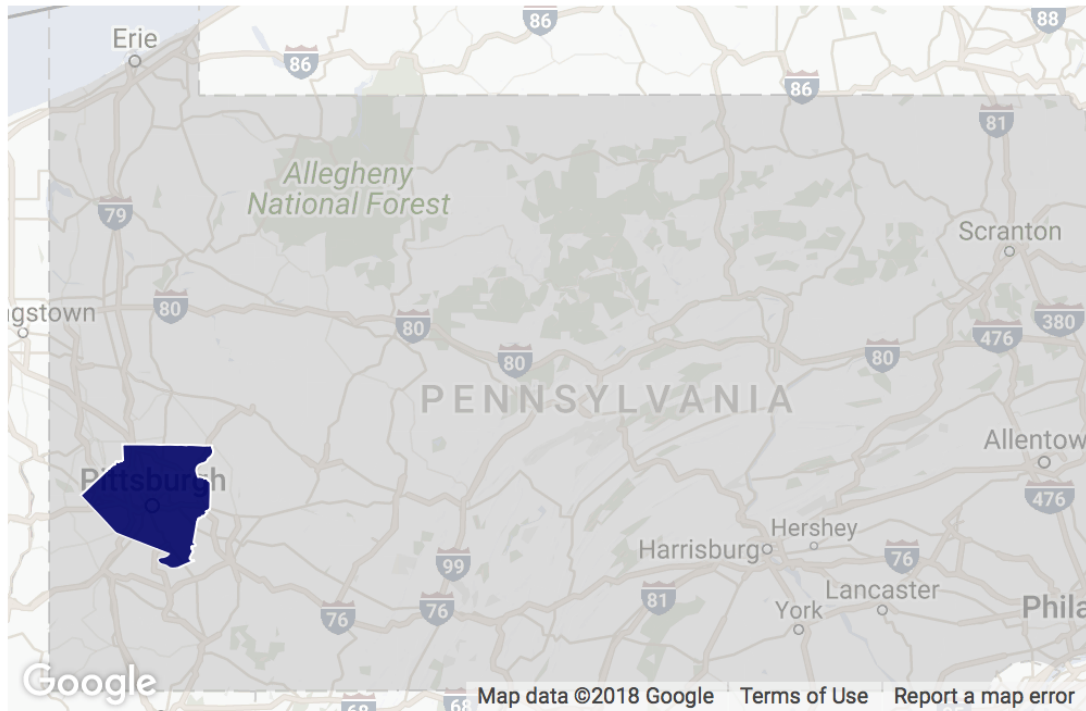
Load Data

Allegheny County

Allegheny County data is updated on a bi-weekly basis as cases are completed by the Medical Examiner's Office. This database reflects records from 2008-current.

If you have questions about Allegheny County's data, please contact:

Dr. Karl Williams MD, MPH, Medical Examiner, 1520 Penn Avenue
Pittsburgh, PA 15222, Phone: (412) 350-4800, Fax: (412) 350-4899



3,588 reported overdose deaths in

Gender

- All Genders
- Male
- Female

Race

- All Races
- White
- Black
- Hispanic
- Asian
- Other

Age Groups

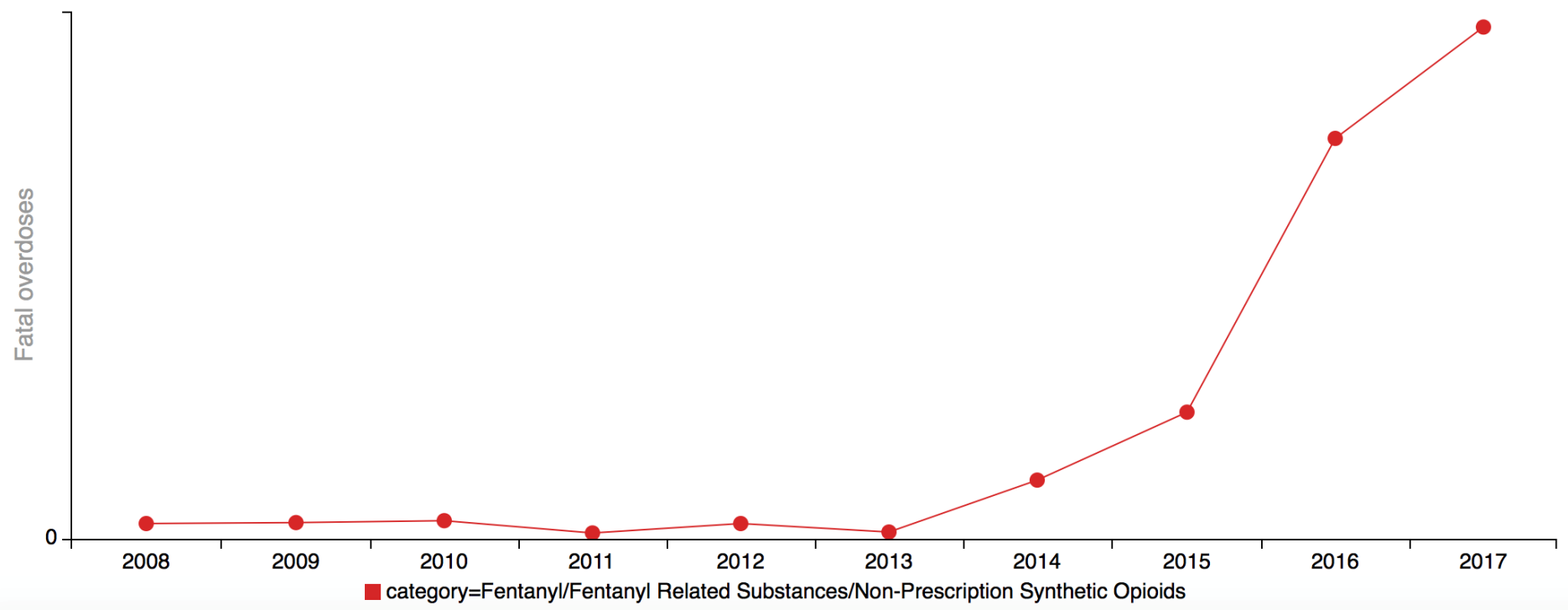
- All Age Groups
- 0-17
- 18-24
- 25-34
- 35-44
- 45-54
- 55-64
- 65+

Drugs in system

- All Drugs
- Drug Categories/Combos
- Individual Drugs

Fentanyl/Fentanyl Related Substances/Non-Prescription Synthetic Opioids

Add to Chart Clear Chart



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ODIN

WHAT IS ODIN?

A statewide criminal justice application developed in coordination with the Pennsylvania State Police and the Liberty Mid-Atlantic (formerly Philadelphia/Camden) HIDTA that:

- Tracks overdoses, naloxone administration, and identifiable drug markings
- Is accessible through the JNET portal
- Provides real-time information and intelligence on drug markings and those trafficking narcotics
- Enables the sharing of overdose and naloxone administration information with state and local policy and decision makers in treatment, prevention, education, and law enforcement in order to assist in creating effective treatment and prevention strategies

ODIN's centralized location for overdoses and naloxone administrations:

- Allows for agency specific record keeping
- Detects clusters
- Provides data sharing
- Encourages collaboration among public health and public safety
- Provides statistical data/reports

ODIN's centralized location for identifiable drug markings:

- Provides real-time identification of the most lethal substances and packaging
- Encourages collaboration among law enforcement officers and agencies
- Assists in advancing and connecting criminal investigations
- Helps identify suppliers through investigative keywords and phone numbers
- Provides search capabilities and reports on identifiable markings



Questions?

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