A State Level Perspective of

Fentanyl

Highly potent opioids such as fentanyl and its analogs are driving New Jersey's high rate of drug-related deaths, which increased 163% between 2010 and 2016 when there were more than 2,200 deaths. Although millions of dollars have been invested to support various efforts against the scourge, illicit drug distributors have countered these efforts by introducing fentanyl and its analogs into the state's drug environment. The presence and increased prevalence of potent fentanyl analogs such as cyclopropyl fentanyl and carfentanil could raise the 2017 death toll to as high as 2,600, translating to an average of seven drug related deaths per day in New Jersey.

How did we get here?
The *first phase* of this deadly epidemic is attributed to the high number of prescription opioids dispensed during the 1990s. The *second phase* evolved, as many users who became addicted to prescription opioids transitioned to using heroin. Since the year 2000, heroin and prescription opioids have been driving New Jersey's rising number of fatal and non-fatal overdoses as well as violent crimes and burglaries.

To understand the scope of the problem during 2009, we implemented the Drug Monitoring Initiative (DMI), which enables us to identify:
1) The presence and prevalence of drugs by tracking the number of times that specific drugs are involved in deaths, overdoses, and arrests.
2) Suspected drug overdose spikes and hot spots by tracking naloxone administrations by EMS and law enforcement.
3) The overall impact of drugs on public safety and public health statewide.

We identified the *third phase* in January 2014 when the lab analysis of a suspected heroin specimen revealed it to be all fentanyl with no heroin present. As a result, we asked the nine crime forensic labs to start identifying all of the substances that were being mixed with or sold as heroin. Several cases from 2013 were reexamined and reclassified as they were found to involve fentanyl. This is a clear indication that fentanyl had been in the state's drug environment but it was not being identified, reported, or widely monitored.

Since then, crime labs and medical examiners have identified two U-series opioids and 14 fentanyl class compounds, including cyclopropyl fentanyl and carfentanil, which are extremely potent. One kilogram of fentanyl can kill 500,000 people, while one kilogram of carfentanil can kill 50,000,000 people. These fentanyl class compounds pose an occupational hazard as several exposures have occurred. Because of the increase in the presence of fentanyl, naloxone administrations climbed from 5,175 during 2014 to 12,200 this year. Meanwhile, drug deaths continue to increase year over year.

We are now into the *fourth phase* of this synthetic storm as fake prescription opioid pills are being made with fentanyl and fentanyl analogs.

Why is this happening?
It's all economics. It started with the pharmaceutical companies, and now it's the illicit drug market making big profits. One kilogram of fentanyl can be purchased for approximately $200 from China. That same kilogram yields the equivalent of 20 to 25 kilograms of heroin which cost $1.2 million, and both gross $5,000,000. While wholesale heroin transactions involve cartel and gang members, fentanyl can be discretely purchased via the dark web and delivered via legitimate parcel services.

Where are we headed?
Fentanyl is here to stay because of its advantages over heroin as it is:

1. Cheaper to produce due to readily available synthetic precursor material as compared to the significantly more expensive process of cultivating opium poppy to extract morphine.

2. Much more potent allowing it to produce significantly more doses per kilogram.

3. Easier to smuggle as a drone can easily carry two kilograms over the border into the US as opposed to having to secrete 40 to 60 kilograms in a car or truck to cross the border.

4. Easier to acquire as anyone can use the dark web to order fentanyl or other analogs from abroad and have it safely delivered to their door steps.

Major Juan Colon #5039
Commanding Officer
Drug Monitoring Initiative
New Jersey State Police
201-538-1066
JC5039@GMAIL.COM
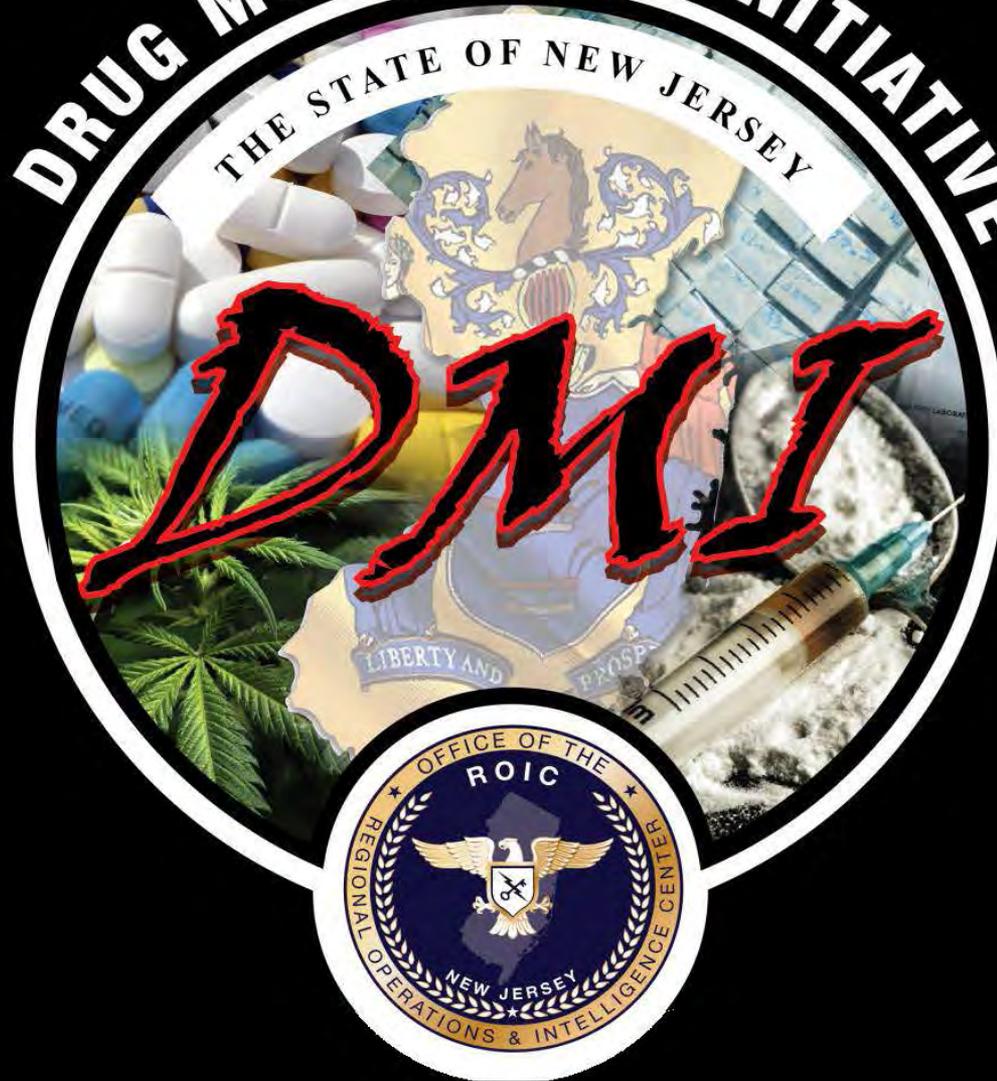
A Drug Intelligence Capability for Public Health
& Public Safety Partners

- Corporations use it protect their bottom line
  - Financial

- Government should do the same to protect its bottom line
  - People

- Conduct comprehensive data collection & analysis to develop knowledge & understanding to enhance
  - Public Safety
  - Public Health

We need to:

-leverage available data

-identify the most impacted areas

-identify at-risk populations

-identify at-risk individuals for overdose

-proactively target them for prevention & treatment

Left of BOOM   BOOM   Right of BOOM

Drug Arrests

Theft Arrests

Pawning Activity

Overdoses

Imprisonment

Hospitalization

Truancy

Drug Rehab

The Drug Environment is Complex and Convoluted

DMI Historical Perspective

Problem:

2006 – **First rash of fentanyl related deaths identified in New Jersey area**

2007 – **Violent crimes, burglaries, & drug overdoses were driven by heroin & opioids**

2008 – **Heroin stamp data collection commenced informally**

2009 – **Commenced formal heroin stamp data collection from four labs**

2012 – **Commenced informal tracking of suspected drug overdoses**

2013 – **NJ government recognized the state was facing an epidemic**

– **DMI was formalized**

You Can't Manage What You Don't Measure

A Drug Intelligence Capability for Healthcare & Public Safety Partners

Response:

2013 – **Implemented a robust drug data collection & analysis capability to:**

- **understand the supply and demand side of the problem**

- **identify problem drugs in problem areas involving problem people**

- **support investigations**

- **enable surgical deployment of healthcare resources**

- **enhance development of effective drug policies and practices**

Treatment

Intelligence

Enforcement

Prevention

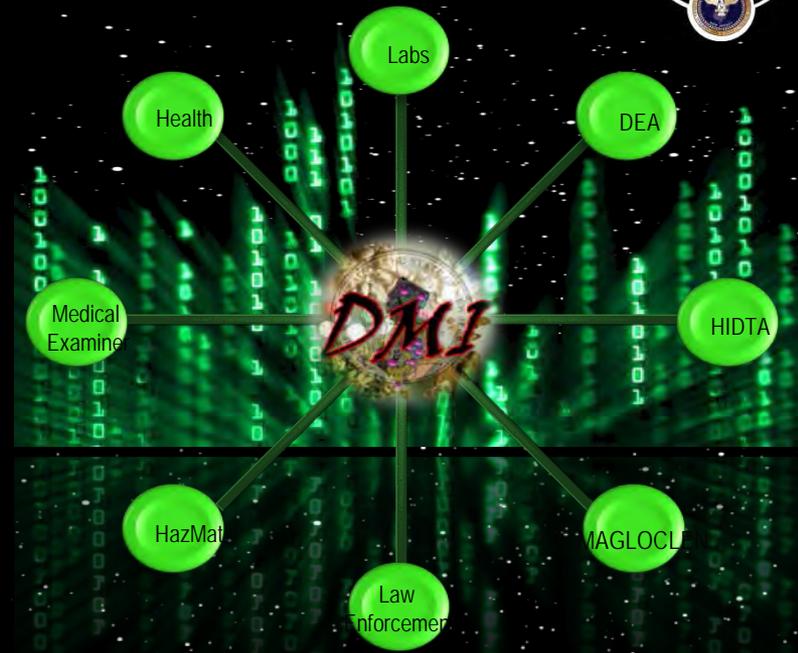**You Can't Manage What You Don't Measure**

DMI DATA COLLECTION

- **Law Enforcement**
  - Drug Seizures/Lab results
    - Heroin
    - Pills
    - Methamphetamine
    - Cocaine
    - Marijuana Variants
    - Synthetics
  - Shootings
 - Gun Recoveries
  - Drug Arrests
  - LE Naloxone Deployments

- **Healthcare**
  - EMS Naloxone Deployment Data
  - Toxicology Data on Overdose Deaths
  - Prescription Drug Monitoring Program
  - Addiction Treatment Admissions
  - Urinalysis results
  - Children and Families
  - Infectious Decease Division
  - Medicaid Data

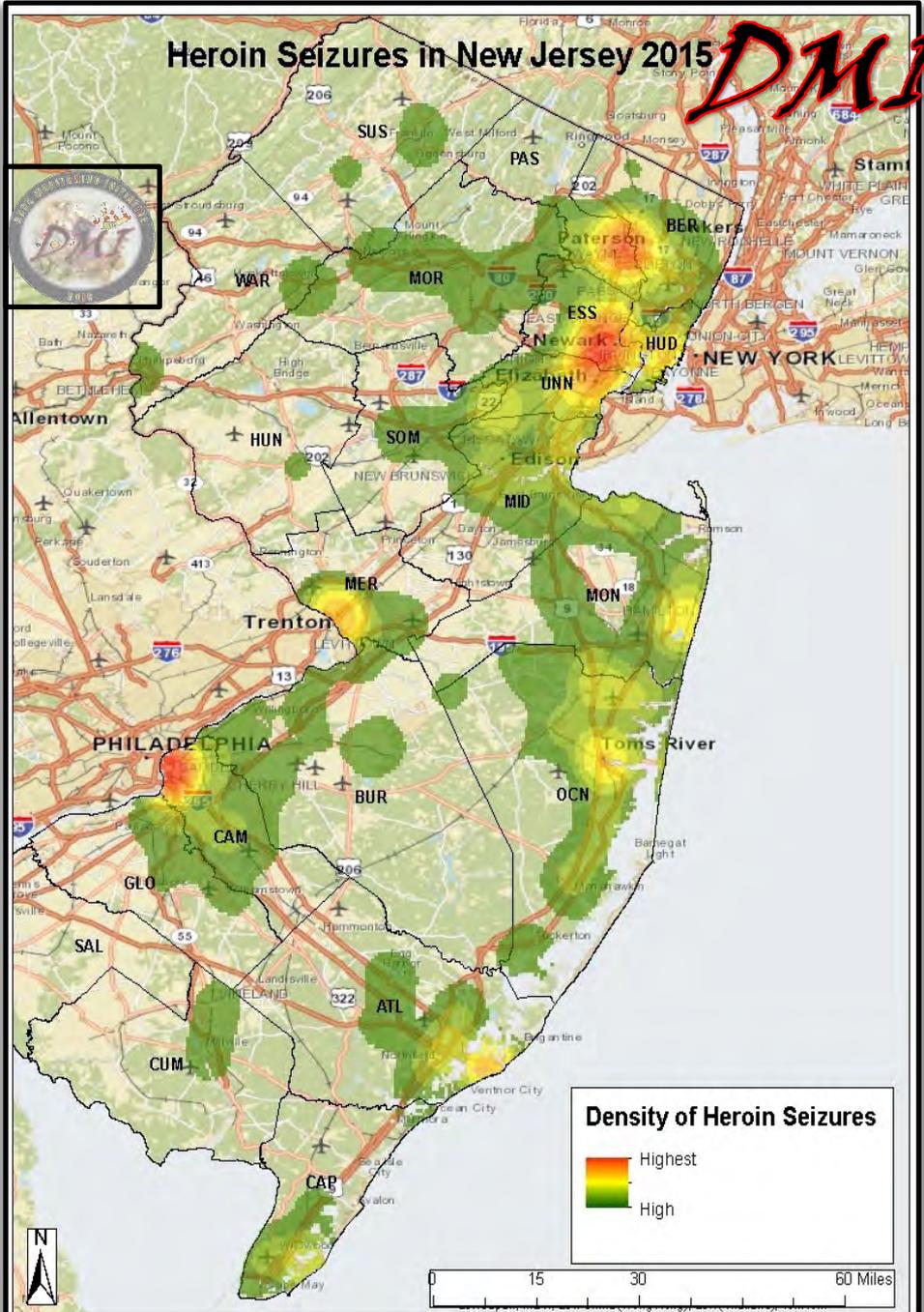|	Count	Drug Name	Department Name	Offense Location	Offense Date	County
2	5	Buprenorphine	Elmwood Park PD	River Drive Elmwood Park	5/26/2013	BER
3	1	Buprenorphine	NJSP Tuckerton - Troop C	Us- 9 Sb, M.P. 56, Bass River Twp.	6/22/2013	BUR
4	4	Buprenorphine	NJ Transit PD - Atlantic City	Camden Transportation Center	5/20/2013	CAM
5	6	Buprenorphine	Cherry Hill Twp PD	Rt 38 & Chapel Ave, Cherry Hill	6/11/2013	CAM
6	1	Buprenorphine	Cherry Hill Twp PD	Rt 38 & Hollywood Ave, Cherry Hill	6/16/2013	CAM
7	2	Buprenorphine	Haddon Heights PD	White Horse Pike	6/22/2013	CAM
8	1	Buprenorphine	Runnemede PD	525 North Oakland Ave. Runnemede	6/28/2013	CAM
9	1	Buprenorphine	Nutley PD	Parrellel St And Harrison St	5/15/2013	ESS
10	1	Buprenorphine	Monroe Twp PD (GLO)	1237 Janvier Rd	6/4/2013	GLO
11	6	Buprenorphine	Deptford Twp. PD	131 Blackwood Barnsboro Rd	6/13/2013	GLO
12	2	Buprenorphine	Harrison Twp PD	705 Mullica Hill Rd	7/7/2013	GLO
13	9	Buprenorphine	Edison Twp. PD	Maplewood Ave/Redfield Village	6/10/2013	MID
14	1	Buprenorphine	Howell Twp PD	Rt 9 / Aldrich Rd	6/28/2013	MON
15	7	Buprenorphine	Wall Twp PD	State Highway 138 Club Drive, Wall Twp	5/9/2013	MON
16	1	Buprenorphine	Tinton Falls PD	Ann Court	7/17/2013	MON
17	15	Buprenorphine	Matawan PD	Aberdeen Rd, Matawan Boro	7/8/2013	MON
18	2	Buprenorphine	Dover PD	91 Park Heights Avenue Apt 1C, Dover	6/17/2013	MOR
19	1	Buprenorphine	Wanaque Boro PD	Haskell Ave., Haskell	6/4/2013	PAS
20	1	Buprenorphine	Somerville PD	17 Reimer St Somerville	5/20/2013	SOM
21	8	Codeine	Pennsville PD	26 Harrison St Deepwater (Pennsville Twp)	4/24/2013	SAL
22	4	Codeine	Independence Twp PD	Russling Rd	5/9/2013	WAR
23	4	Hydrocodone	Winslow Twp PD	31 Colts Neck Drive Sicklerville	6/16/2013	CAM
24	5	Hydrocodone	Cumberland C P O/NARC	301 North 5Th St, Apartment 4, Millville	5/22/2013	CUM
25	5	Hydrocodone	Millville PD	Millville Senior High School Millville	4/9/2013	CUM
26	41	Hydrocodone	Essex C S O (E.C.B.N.)	394 Irvine Turner Blvd Newark	1/5/2011	ESS
27	6	Hydrocodone	Milltown PD	South Main St. Milltown	6/16/2013	MID

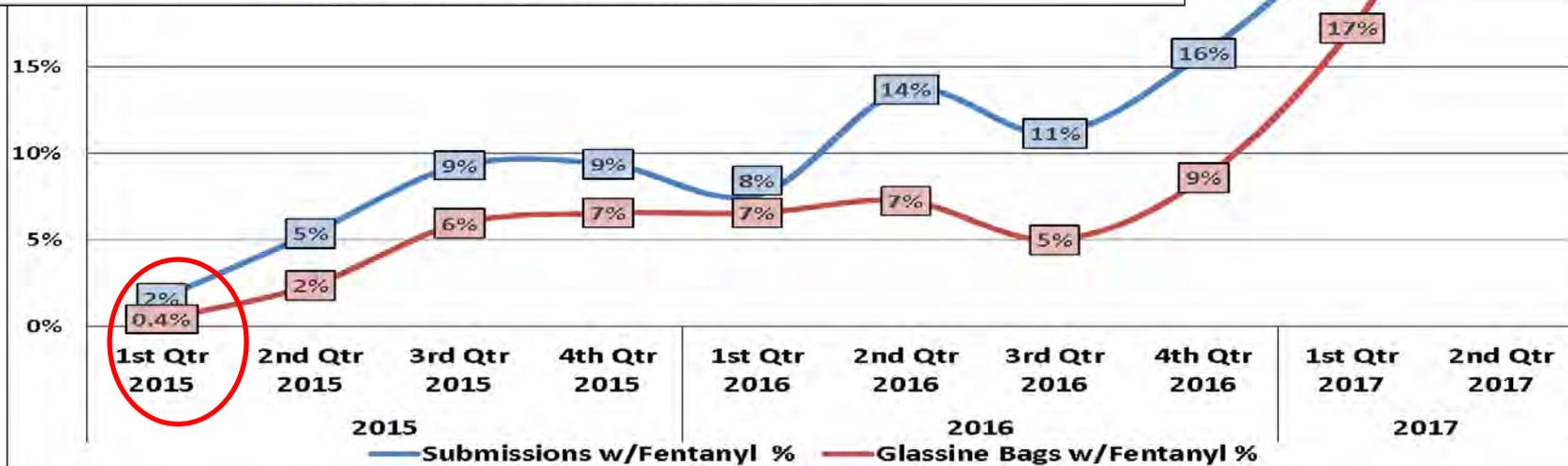Heroin Seizures in New Jersey 2014

Heroin Seizures in New Jersey 2015
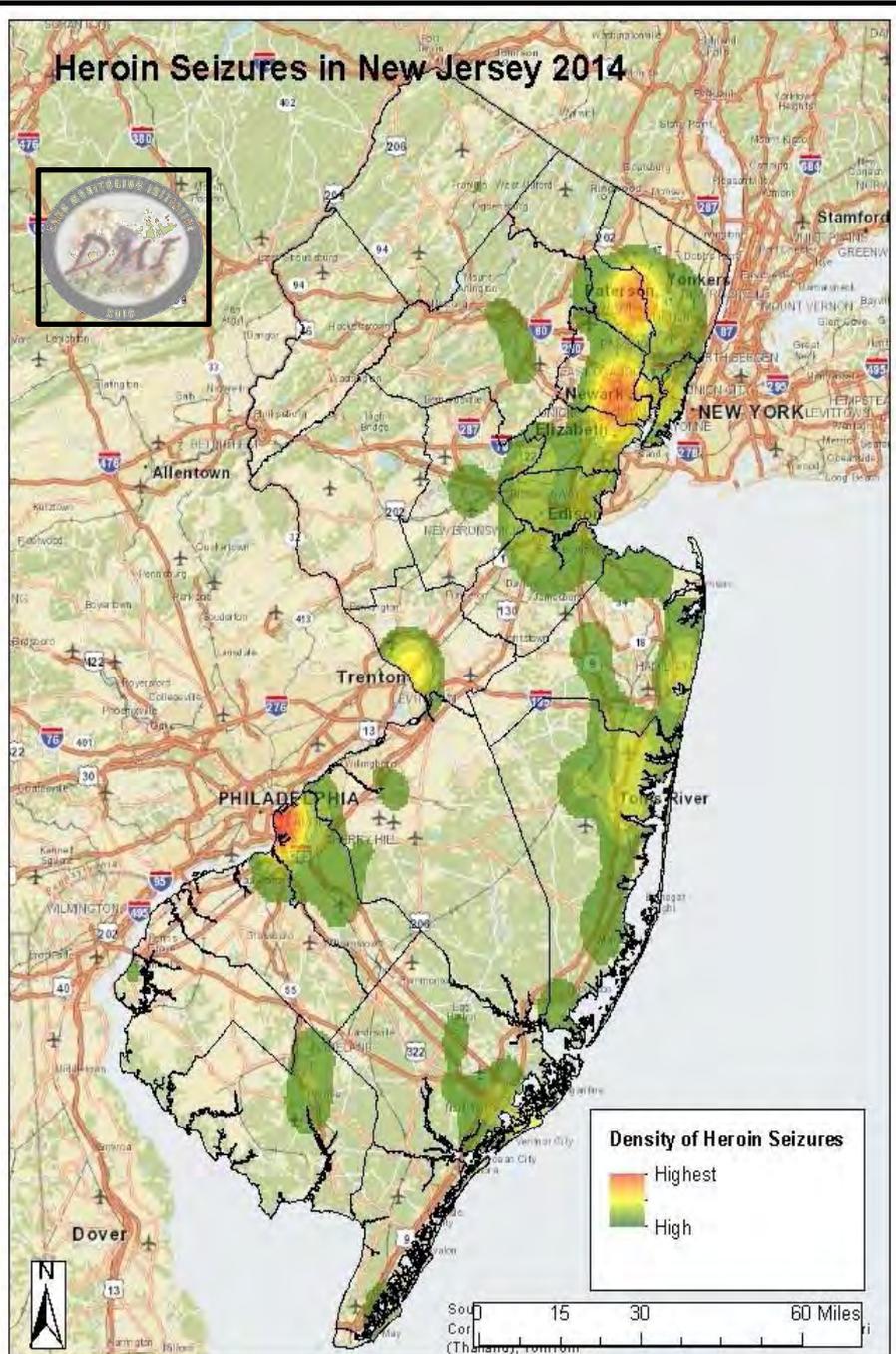
Density of Heroin Seizures
Highest
High

FENTANYL-RELATED SUBMISSIONS & GLASSINE QUANTITY
QUARTERLY COMPARISON

FENTANYL - PERCENT CHANGE		
QUARTER	SUBMISSIONS	GLASSINE BAGS
QTR 1-15 VS QTR 2-15	378%	1024%
QTR 2-15 VS QTR 3-15	85%	132%
QTR 3-15 VS QTR 4-15	-8%	-8%
QTR 4-15 VS QTR 1-16	-30%	-9%
QTR 1-16 VS QTR 2-16	79%	22%
QTR 2-16 VS QTR 3-16	-28%	-45%
QTR 3-16 VS QTR 4-16	95%	137%
QTR 4-16 VS QTR 1-17	21%	67%
QTR 1-17 VS QTR 2-17	11%	56%

What's the Impact?

Naloxone Administrations

5,174 — 2014

7,222 — 2015

10,316 — 2016

13,500 *Projected*
12,246 — 2017

Fentanyl Involved Deaths by Year

Year	Percentage
2012	3.40%
2013	3.40%
2014	10.90%
2015	26.30%
2016	38.50%

Drug Involved Deaths by Year

2010 — 843 — Pills, Heroin

2011 — 1026 — Pills, Heroin

2012 — 1294 — Pills, Heroin

2013 — 1336 — Pills, Heroin

2014 — 1307 — Naloxone, Pills, Heroin, Fentanyl

2015 — 1587 — Naloxone, Pills, Heroin, Acetyl Fent, Butyryl, Fentanyl

2016 — 2200? — Naloxone, Pills, Heroin, Acetyl, Butyryl, Fentanyl, 3-methylfent, Furanyl, P-fluoroisobutyryl, P-fluoroFent, P-fluorobutyryl, U-47700, Valeryl

2017 — ????? — Naloxone, Acetyl, Butyryl, Fentanyl, 3-methylfent, Furanyl, P-fluoroisobutyryl, P-fluoroFent, P-fluorobutyryl, Tetrahydrofuan, U-47700, Valeryl, U-49900, Acryl Fent, Carfentanil, Methoxyacetyl, Cyclopropyl

Where are we headed?

Prescription Pills

Heroin

Fentanyl

Fake Prescription Pills

Phase 1

Phase 2

Phase 3

Phase 4

Public Awareness
Fake Prescription Pills Containing Dangerous Drugs

➤ During 2017, forensic laboratories in New Jersey have identified a large amount of imitation prescription pills containing dangerous drugs.

➤ So far this year, law enforcement in NJ have seized over 500,000 fake prescription pills that have actually contained highly potent opioids, including heroin and fentanyl class compounds.

➤ Recently, carfentanil was identified in what appeared to be a legitimate prescription oxycodone pill.

❖ *Carfentanil is typically used to tranquilize large animals, specifically elephants. Reportedly, the equivalent of one grain of salt is enough to kill one human being.*

➤ Imitation prescription pills containing dangerous drugs such as carfentanil are being sold by drug dealers, placing users at significant risk of death.

OPIOID POTENCY

Carfentanil: **10,000x**
Fentanyl: **100x**
Heroin: **2x**
Morphine: **1x**
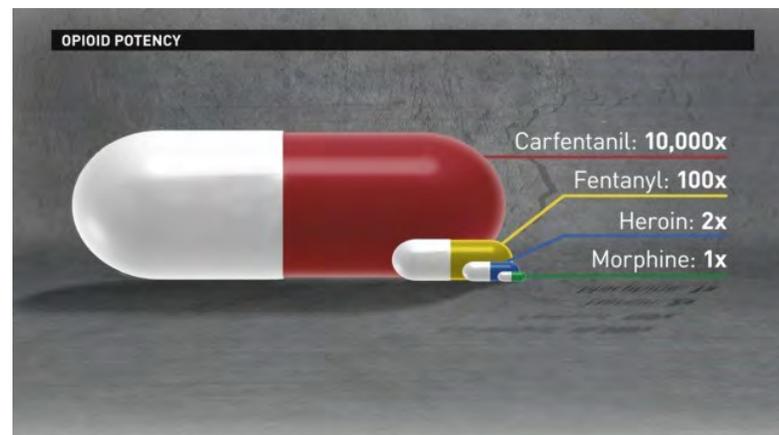
Carfentanil, a synthetic opioid, is approximately 10,000 times more potent than morphine, 5,000 times more potent than heroin, and 100 times more potent than fentanyl.

Photos of Imitation Prescription Pills Containing Fentanils

Fake oxycodone/acetaminophen pill, actually contained heroin.

Fake oxycodone pill, actually contained carfentanil.

Where To Go For Help?

ADDICTION IS A DISEASE.
DON'T SUFFER. DON'T WAIT.
HELP IS WITHIN REACH.
RECOVERY STARTS NOW
CALL 844-REACH NJ | OR VISIT REACHNJ.GOV

ReachNJ - 1.844.ReachNJ (1.844.732.2465) ReachNJ, New Jersey's Addiction Helpline is an information and referral service that will connect you with the addiction recovery and support services that are available throughout our state. Call to get what you need to take the next step on your road to recovery.
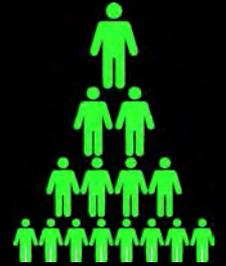
Naloxone Treatment Surveillance

ALERT!

5 or more administrations
10 mile radius
12 hours

Top 50 Overdose Hot Spots (¼ Mile) Provided to Human Services to Surgically Provide Naloxone & Training

Street Name	L Side From	L Side To	R Side From	R Side To	Zip Code	Town	County	State	Shape_Leng	Deployme	LE	EMS
Broadway	199	1	198	2	08103	Camden	Camden	NJ	564.9374462	60	44.00	16.00
Cedar St	398	300	399	301	08102	Camden	Camden	NJ	390.9995510	52	0.00	52.00
N Dr Martin Luther King E	300	398	330	332	08401	Atlantic City	Atlantic	NJ	449.3649074	45	0.00	45.00
Market St	151	173	150	174	07102	Newark	Essex	NJ	444.3584551	42	2.00	40.00
Spruce St	801	899	800	898	08103	Camden	Camden	NJ	354.8203602	39	0.00	39.00
N Michigan Ave	2	98	1	99	08401	Atlantic City	Atlantic	NJ	625.7412880	35	27.00	8.00
Chadwick Ave	131	83	132	84	07108	Newark	Essex	NJ	704.8642045	28	0.00	28.00
Camden St	200	234	201	235	07103	Newark	Essex	NJ	538.5638122	28	0.00	28.00
S Clinton Ave	0	0	82	58	08609	Trenton	Mercer	NJ	278.2614876	26	14.00	12.00
N Tennessee Ave	19	21	18	20	08401	Atlantic City	Atlantic	NJ	632.7533092	22	6.00	16.00
Raymond Plz W	1	87	2	30	07102	Newark	Essex	NJ	635.6690078	20	18.00	2.00
E Gibbsboro Rd	536	566	0	0	08021	Clementon	Camden	NJ	283.9057081	18	7.00	11.00
Bayside Ter	98	8	99	1	07305	Jersey City	Hudson	NJ	659.0041637	18	0.00	18.00
Bordentown Chesterfiel	23	83	22	94	08505	Bordentown	Burlington	NJ	4399.9545380	17	0.00	17.00
Crescent Blvd	0	0	899	835	08030	Gloucester Ci	Camden	NJ	911.7730525	17	5.00	12.00
Woodside Ave	2	98	1	99	07104	Newark	Essex	NJ	325.0425164	17	0.00	17.00
S 6th St	1221	1201	1220	1200	08104	Camden	Camden	NJ	272.0234271	16	2.00	14.00
State Hwy 73	0	0	1182	1192	08054	Mount Laurel	Burlington	NJ	1352.9519896	16	6.00	10.00
Broadway Tpke	1199	1101	1198	1104	08103	Camden	Camden	NJ	539.1433944	15	4.00	11.00
Federal St	601	799	600	798	08105	Camden	Camden	NJ	643.1991923	15	1.00	14.00
N Munn Ave	21	89	24	90	07106	Newark	Essex	NJ	874.9982921	15	0.00	15.00
S Iowa Ave	101	199	100	198	08401	Atlantic City	Atlantic	NJ	429.2045899	14	1.00	13.00
Park Pl	129	149	128	148	08401	Atlantic City	Atlantic	NJ	411.0275516	14	0.00	14.00
Haddon Ave	199	153	98	52	08103	Camden	Camden	NJ	830.4039922	14	10.00	4.00
Broadway Tpke	101	199	100	198	08104	Camden	Camden	NJ	434.0349037	14	4.00	10.00
Elmwood Ave	79	1	98	2	08030	Gloucester Ci	Camden	NJ	516.3474084	14	8.00	6.00
Roseville Ave	274	326	263	313	07107	Newark	Essex	NJ	876.8801592	14	0.00	14.00
Broadway Tpke	1217	1201	0	0	08104	Camden	Camden	NJ	150.6556092	13	4.00	9.00
1st St	174	222	169	221	07107	Newark	Essex	NJ	722.7694151	13	0.00	13.00
Newton Lake Dr	649	501	598	500	08107	Oaklyn	Camden	NJ	951.6324925	13	0.00	13.00
Pacific Ave	2700	2718	2701	2705	08401	Atlantic City	Atlantic	NJ	218.7705074	12	0.00	12.00
Ware St	0	0	0	0	08104	Camden	Camden	NJ	255.7217574	12	0.00	12.00
Market St	175	205	176	210	07102	Newark	Essex	NJ	437.4903101	12	1.00	11.00
Almond Ave	0	0	0	0	08084	Stratford	Camden	NJ	147.2577866	12	0.00	12.00
S North Carolina Ave	159	199	160	198	08401	Atlantic City	Atlantic	NJ	632.3030636	11	0.00	11.00
Wellwood Ave	101	199	100	198	08031	Bellmawr	Camden	NJ	828.6455559	11	7.00	4.00
Dr Martin Luther King Blv	0	0	0	0	08103	Camden	Camden	NJ	740.5594643	11	5.00	6.00
Seaman St	115	81	118	84	08901	New Brunswic	Middlesex	NJ	565.3823123	11	0.00	11.00
Baldwin St	200	248	201	249	08901	New Brunswic	Middlesex	NJ	652.3030235	11	3.00	8.00
Avon Ave	0	0	72	60	07108	Newark	Essex	NJ	229.8064772	11	0.00	11.00
Broadway	710	736	709	735	07104	Newark	Essex	NJ	375.5522147	.11	0.00	11.00
N Vermont Ave	200	298	201	299	08401	Atlantic City	Atlantic	NJ	534.1409734	10	4.00	6.00
Mechanic St	298	256	0	0	08104	Camden	Camden	NJ	516.3222525	10	3.00	7.00
Benson St	618	600	649	601	08103	Camden	Camden	NJ	241.8604600	10	0.00	10.00
Society Hill Estates Rd	1700	2198	0	0	08021	Clementon	Camden	NJ	421.7559921	10	4.00	6.00
Fairmount Dr	607	615	0	0	08028	Glassboro	Gloucester	NJ	544.4556669	10	6.00	4.00
Jackson St	300	398	301	399	07030	Hoboken	Hudson	NJ	472.9887379	10	5.00	5.00
Charles Ave	99	1	98	2	07734	Keansburg	Monmouth	NJ	557.2380049	10	7.00	3.00
Belmont Ave	304	262	305	265	07108	Newark	Essex	NJ	581.9411646	10	0.00	10.00
Market St	319	339	0	0	07102	Newark	Essex	NJ	289.8637128	10	1.00	9.00

Identification of Cross Jurisdictional Impact & Gaps in Treatment & Prevention
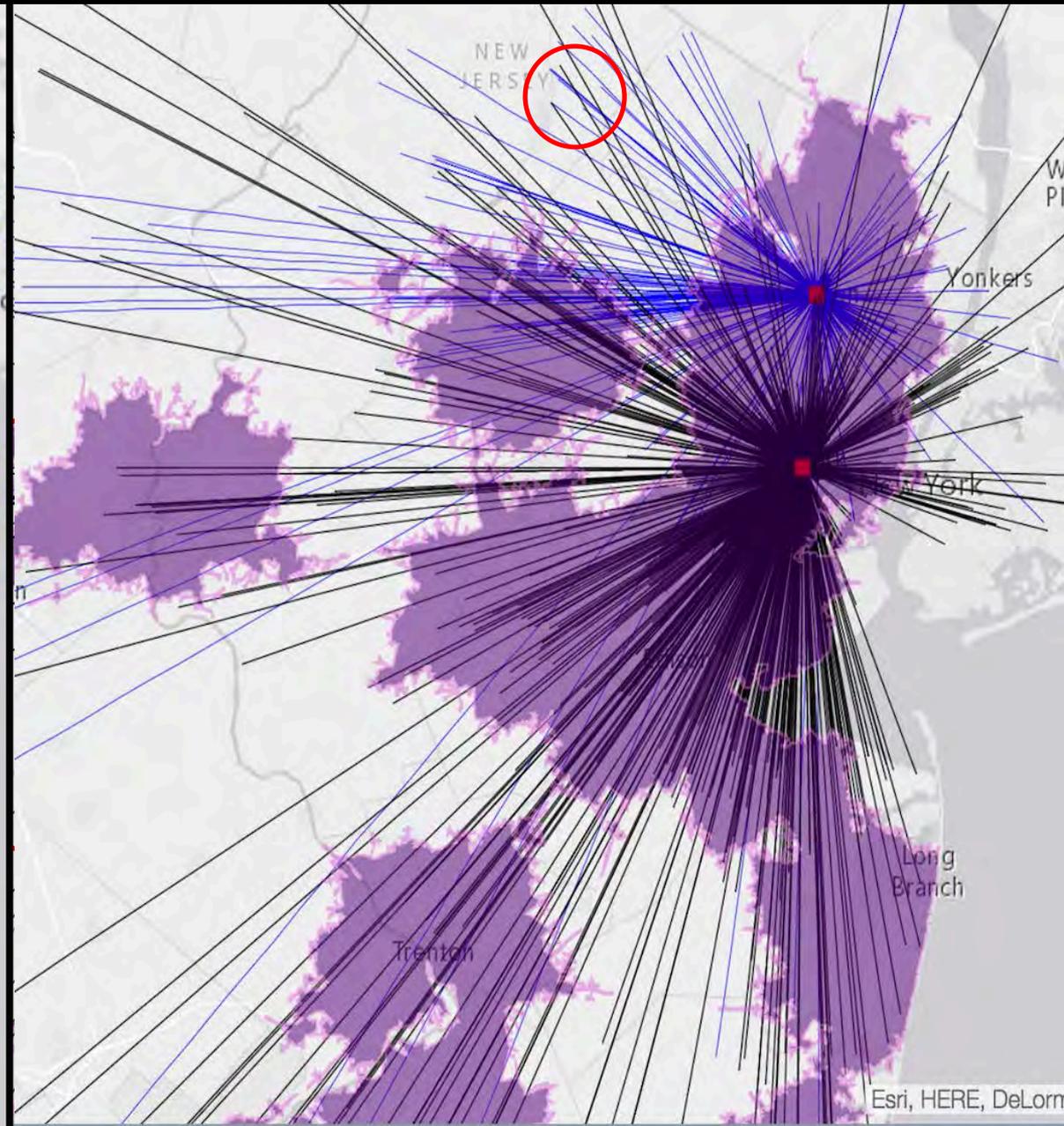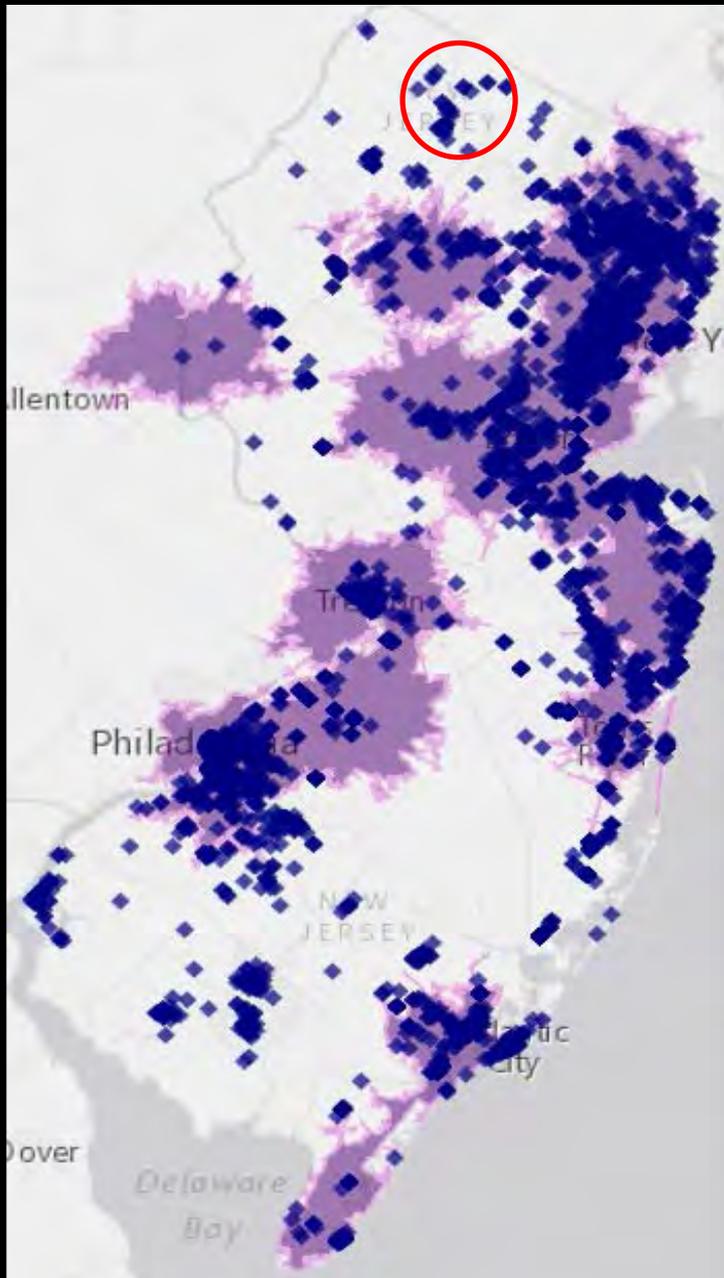
DMI Drug Data Helps Justifications

Data Requests by Local, County, State, and Federal

- Grants
- Budgets
- Needs Assessments
- Program Development
- Enforcement Strategies
- Resource Allocation
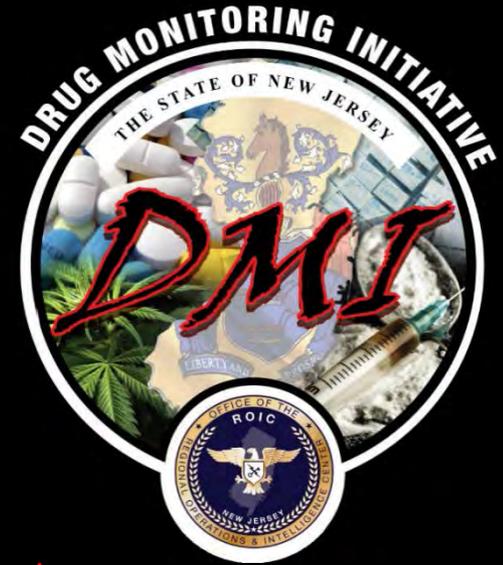
In support of prevention, treatment, and recovery efforts.

LINK DIAGRAM

Six Fatal Overdoses in New Jersey & Pennsylvania
(Strike Dead, Power Hour, Taliban)

ROIC201501-00091F

Interpreting the Environment

Heroin Update

DMI

SUSPECTED HEROIN SUBMISSIONS & GLASSINE BAGS
ANALYZED BETWEEN 4/1/2017 TO 6/30/2017

SUBMISSIONS = 2596   GLASSINE BAGS = 115346
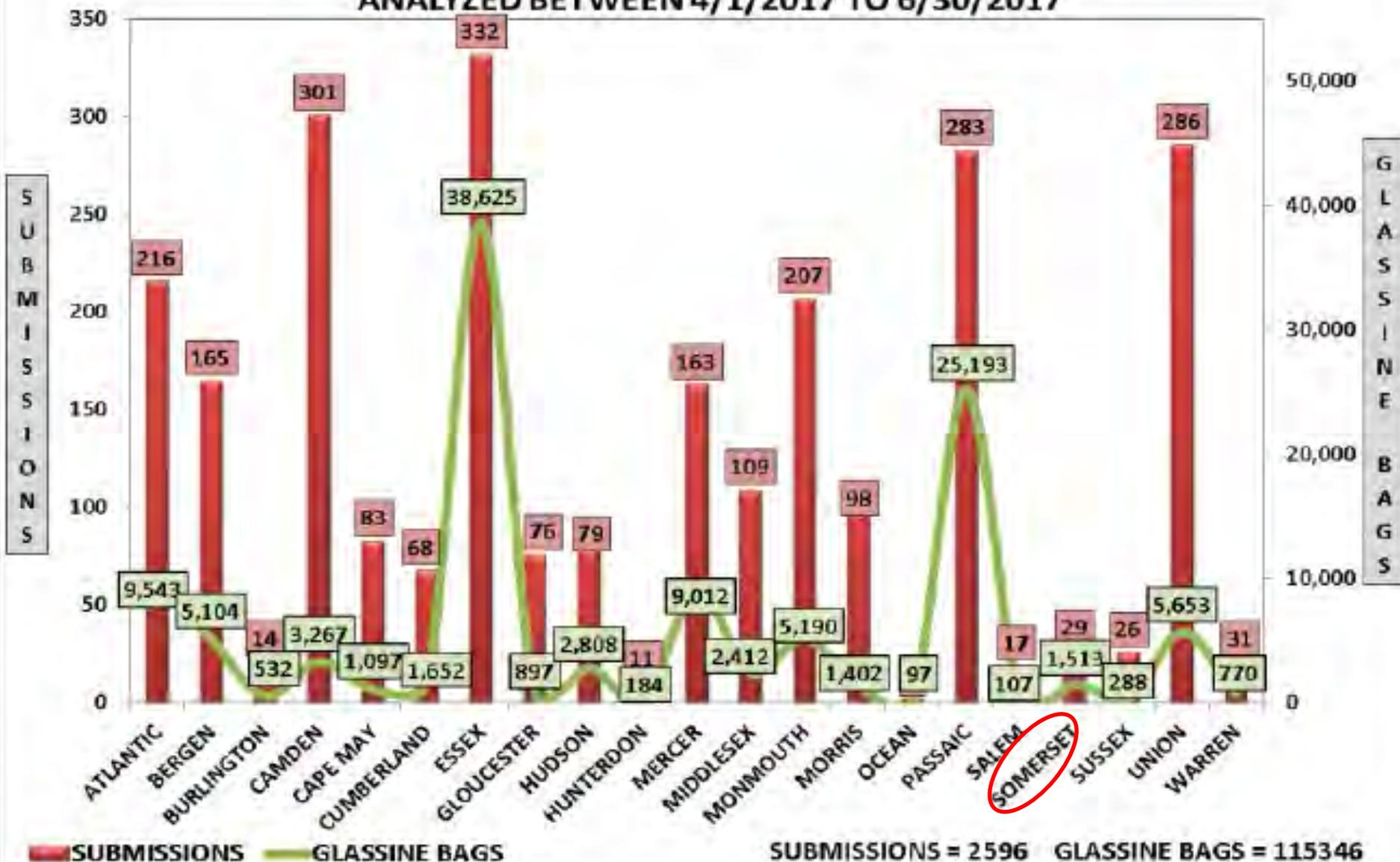
Cocaine Update

DMI

COCAINE OFS LABORATORY SPECIMENS ANALYZED BETWEEN 7/1/2016 TO 9/30/2016

These five counties represent 87% of OFS specimens.

COUNTY	JULY	AUGUST	SEPTEMBER	TOTAL	PERCENT
CAM	729	546	1,104	2,379	44%
ESS	718	598	81	1,397	26%
PAS	54	143	148	345	6%
ATL	209	26	76	311	6%
BER	93	123	84	300	5%
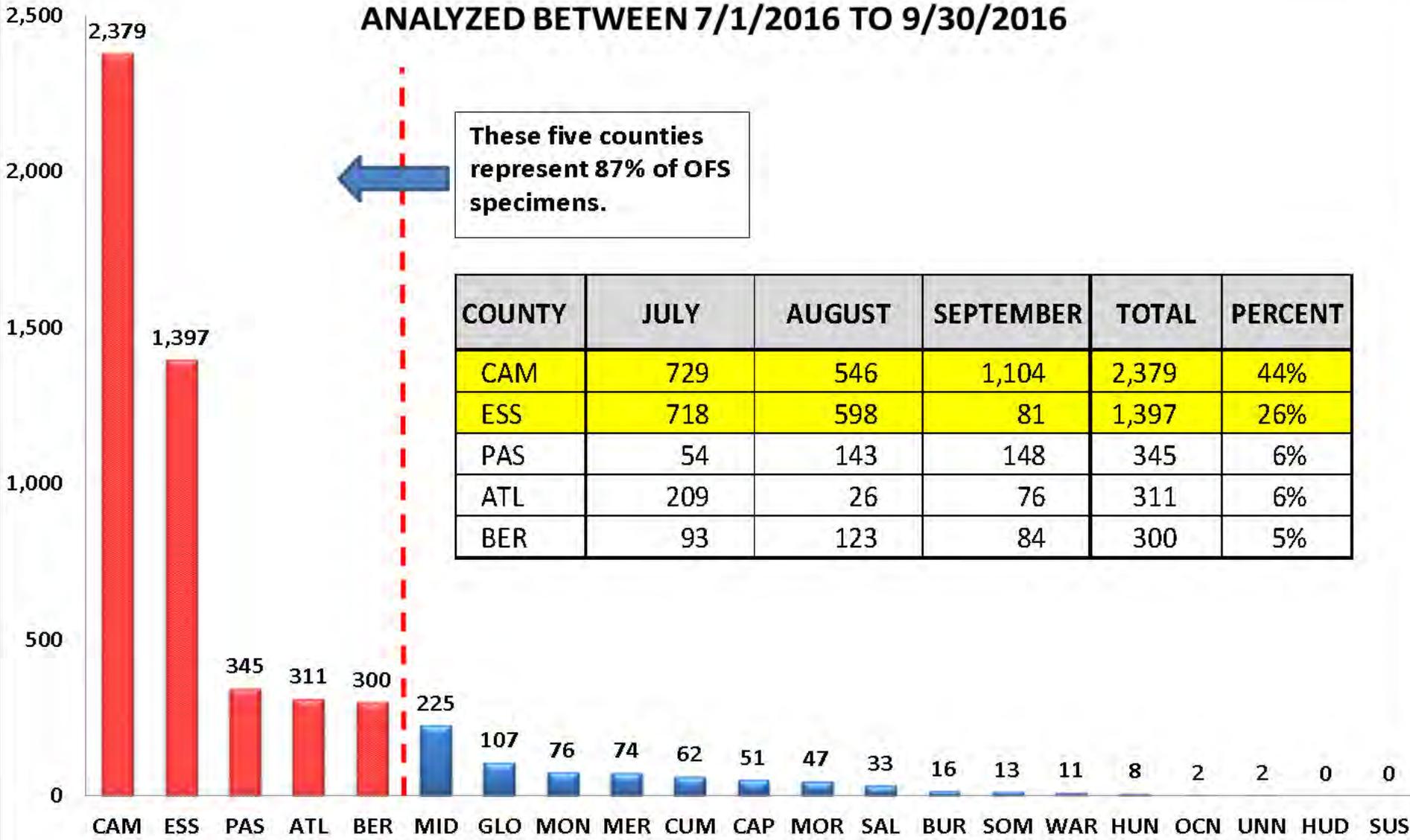
TOTAL = 5459

2014 Fentanyl-Involved Deaths

Sussex
Passaic
Bergen
Warren
Morris
Essex
Hudson
Union
Hunterdon
Somerset
Middlesex
Mercer
Monmouth
Trenton
Mercer
Burlington
Ocean
Gloucester
Camden
Salem
Atlantic
Cumberland
Cape May

# of Deaths
- 0 - 1
- 2 - 4
- 5 - 6
- 7 - 8
- 9 - 13
- 14 - 19

0 5 10   20

Sources: Esri, DeLo
Japan, METI, Esri China (Hong Kong), Esri (Th
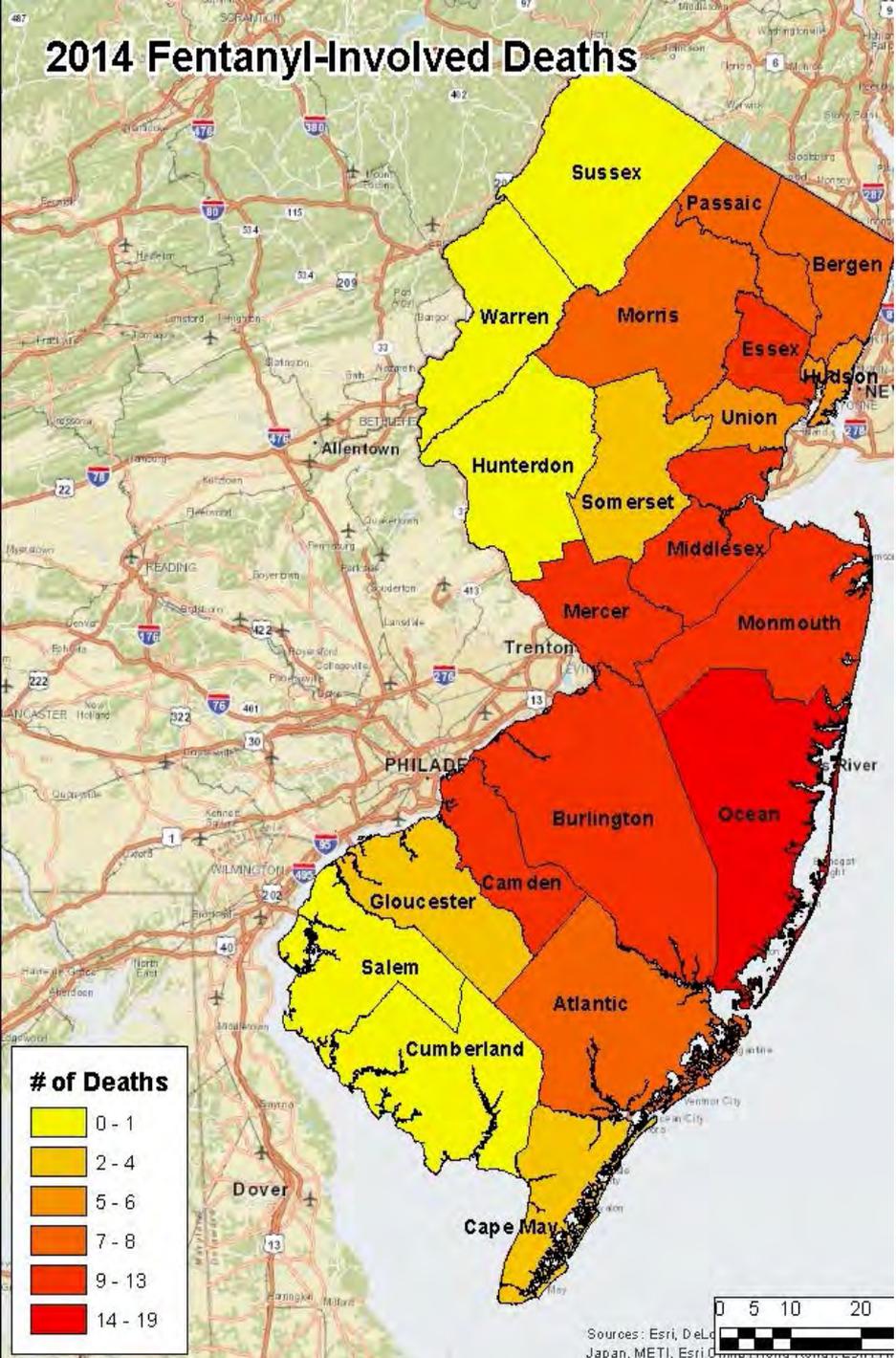
2015 LE & EMS Narcan Administrations 1/1/15 - 12/31/15

SUS
PAS
BER
WAR
MOR
ESS
HUD
UNN
HUN
SOM
MID
MER
MON
BUR
OCN
CAM
GLO
SAL
ATL
CUM
CAP

Camden County, with 1,504 total administrations, accounted for 21% of all Narcan administrations statewide.

Narcan Administrations
- 50 - 138
- 139 - 332
- 333 - 624
- 625 - 1,504

0   10   20   40 Miles
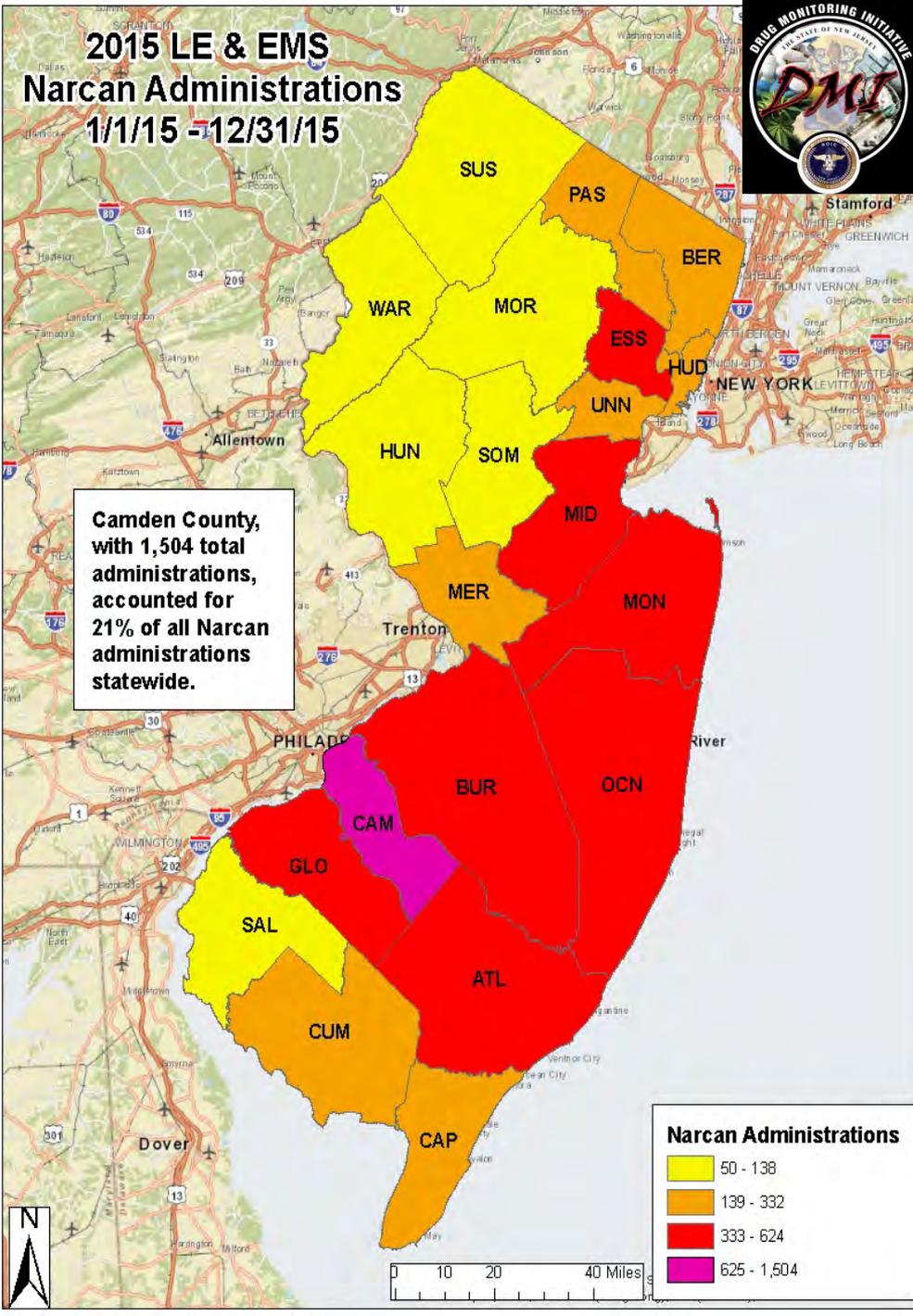
DMI Drug Intelligence Production

- Ad Hoc Reports and Alerts
- Weekly Drug Environment Report
- Bi-Weekly Suspected Drug Death Report
- Monthly Naloxone Administration Report
- Quarterly Drug Environment Report
- County Drug Assessments
- Drug Harm Index
- Investigative Support Notices
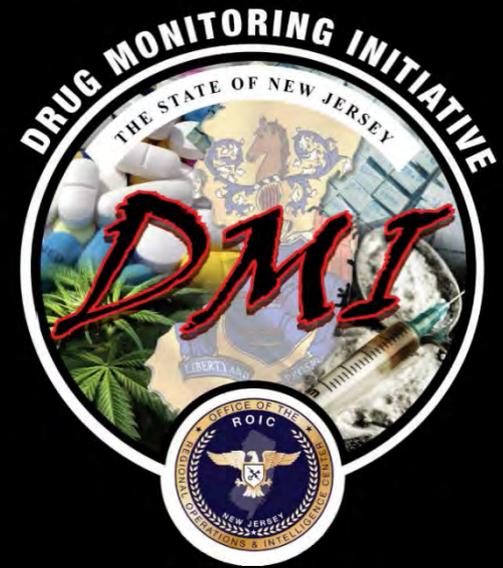
Drug Monitoring Initiative Quarterly Report

DRUG MONITORING INITIATIVE
THE STATE OF NEW JERSEY

DMI

OFFICE OF THE ROIC
NEW JERSEY REGIONAL OPERATIONS & INTELLIGENCE

NEW YORK NEW JERSEY

NJ Health
New Jersey Department of Health

HONOR
STATE
POLICE
NJ
FIDELITY

April 1, 2017 ~ June 30, 2017

DRUG MONITORING INITIATIVE
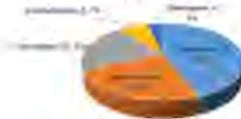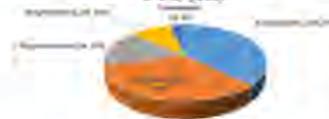## CAMDEN COUNTY ASSESSMENT

PUBLIC HEALTH ANALYSIS

23 October 2017

Key Findings: Opioids such as oxycodone and buprenorphine are the most prevalent seized prescription drugs in Camden County. This is in contrast to statewide trends, which indicate that alprazolam (Xanax) has become the most prevalent seized prescription drug.

Camden County Top Diverted Pills by Case 2nd Qtr, 2017

State of NJ, Top Diverted Pills by Case 2nd Qtr, 2017

Details: The Camden County Drug Monitoring Initiative assessment indicates that oxycodone has been the most prevalent diverted prescription drug from 1 January 2016 thru 30 June 2017.

Opioids are a class of drugs that include illegal drug heroin, synthetic opioids, i.e., fentanyl, and/or such as pain relievers available legally by prescription, such as oxycodone (OxyContin®) and many others (NIDA). Oxycodone is a narcotic, a controlled substance, prescribed to treat moderate to severe pain (NIDA). These drugs chemically interact with the opioid receptors on nerve cells in a human's body and brain. Pain relievers are safe if taken during a short amount of time or as prescribed by a physician. However, if taken longer than prescribed, it can create euphoria in addition to pain relief. This can lead to misuse of the drug causing an individual to become dependent on the drug, leading to overdose incidents and deaths.

CDC Guidelines for Prescribing Opioids for Chronic Pain

This CDC guideline anticipates improving communication between clinicians and patients about the risks and benefits of opioid therapy for chronic pain, improving the safety and effectiveness of pain treatment, reducing the risks associated with long-term opioid therapy, including opioid use disorder, overdose, and death. This guideline should be used by primary care clinicians who are prescribing opioids for chronic pain for patients not involved in active cancer treatment, palliative care, and end-of-life care. The guideline can also be distributed by individuals for awareness purposes, to advocate importance of better communication across the state between a patient and a provider.

Public Health Messaging/Analysis:

Reduce access to Prescription Legend Drugs (PLDs) by improving Opioid Prescribing.

People who die from opioid-related overdose are frequently using prescribed drugs, though less commonly at the time close to their death likely due to their transition of using synthetic opioids. Therefore, the role of prescription drugs in overdose death is more likely part of the development of upstream risk, than a downstream proximal cause. Interventions focused on reducing access to prescription drugs should be paired with interventions that address heroin, fentanyl, and polysubstance use as the proximal causes of overdose.

Statewide Drug Harm Index

Scope & Methodology

The County-Based Drug Harms Index measures the impact of drugs and related issues on public safety and public health between January 1, 2015 and March 31, 2017, providing an understanding of New Jersey's drug environment.

- Multiple drug-related and other data sets, from various sources, were aggregated and analyzed.
- Drug-related arrests, naloxone administrations, and suspected heroin submissions to OFS and independent county labs were reviewed for this product.
- Drug-related death data for 2015 and Jan. 1 to Jun. 30, 2016 was provided by the NJ Office of the State Medical Examiner.
- Arrest data was compiled from the Automated Fingerprint Identification System.
- The DMI assesses drug distribution and drug possession arrests in New Jersey to distinguish between "supply" and "demand" counties.
- The Statistical Package for the Social Sciences (SPSS) program was used to evaluate all data.
- For choropleth maps in all categories, raw numbers were used. For final rankings, raw numbers and per capita data were used to create two maps. "Per capita" refers to the number of arrests, cases, incidents, or drug seizures, per a population of 100,000, using US Census estimated population figures for 2014 for each county in New Jersey.
- Rankings within categories, as well as final rankings using all data sets, are determined by comparing the 21 counties of New Jersey.
- **All information is subject to further review and analysis.**

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Statewide Drug Harm Index

County	Suspected Heroin Submissions	Analyzed Heroin Glassine Bags	Fentanyl Submissions	LE & EMS Naloxone Administrations	*Drug Deaths	Drug-Related Arrests		Theft Arrests	Shooting Incidents
						Distribution	Possession		
Atlantic	2,077	125,441	308	1,554	168	1,606	2,542	3,501	132
Bergen	1,148	40,912	104	893	136	2,249	6,120	5,776	24
Burlington	1,014	12,273	136	1,437	133	1,166	3,710	3,001	51
Camden	3,397	51,410	406	3,084	267	4,283	7,203	5,507	334
Cape May	1,056	35,202	74	433	49	619	807	1,065	6
Cumberland	685	23,241	75	527	63	881	2,158	2,970	101
Essex	2,871	220,889	301	2,171	271	5,343	8,006	7,158	1,053
Gloucester	676	7,111	120	1,200	104	1,156	3,565	2,412	11
Hudson	1,201	43,782	58	857	165	3,289	3,706	4,991	265
Hunterdon	273	6,336	24	143	22	307	529	342	0
Mercer	1,529	103,710	84	787	87	2,051	3,404	2,910	327
Middlesex	1,197	51,961	136	1,548	195	2,338	5,660	5,839	31
Monmouth	2,202	106,620	275	1,210	204	2,262	5,694	4,455	40
Morris	781	16,892	90	390	71	966	2,902	2,172	2
Ocean	2,959	141,370	260	1,684	262	2,106	4,554	2,920	18
Passaic	2,260	189,135	165	681	133	3,452	5,232	3,694	218
Salem	129	2,446	16	201	22	293	655	696	21
Somerset	350	24,120	75	410	61	313	1,490	1,479	16
Sussex	364	9,163	49	147	42	323	935	593	3
Union	2,164	69,216	311	870	117	2,136	5,556	3,315	143
Warren	274	4,940	37	232	37	239	640	710	2
Total	**28,607**	**1,286,170**	**3,104**	**20,459**	**2,609**	**37,378**	**75,068**	**65,506**	**2,798**

Drug Harms Index Categories: 1/1/2015 to 3/31/2017

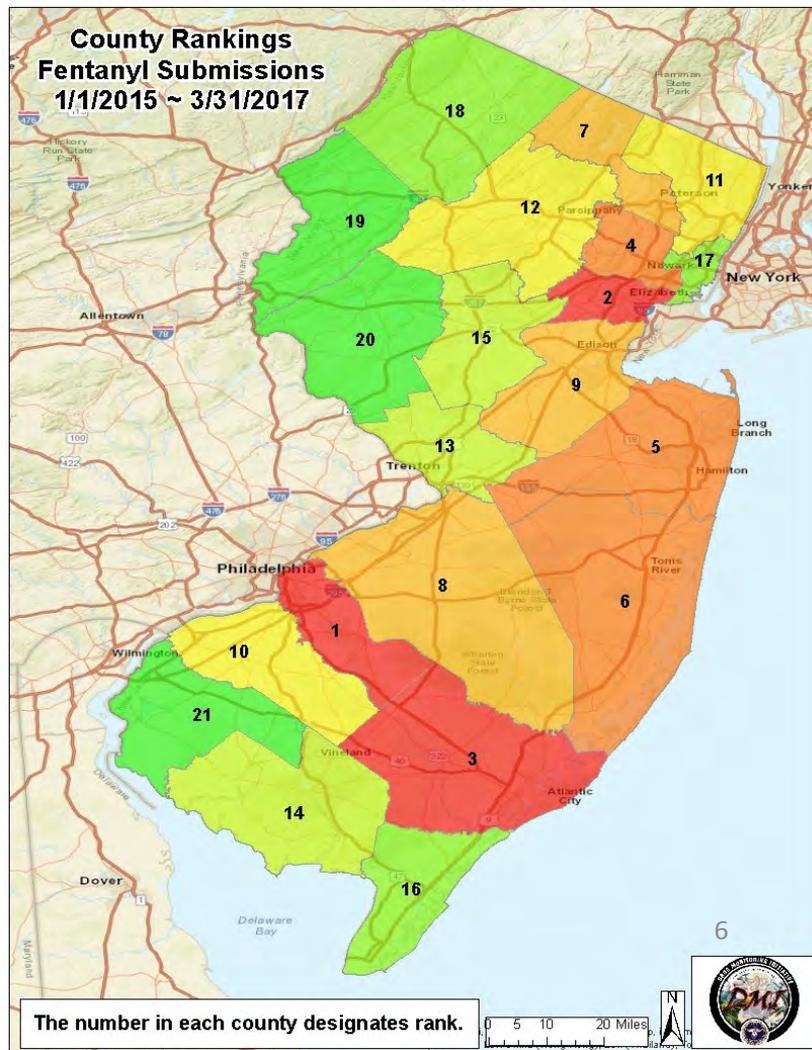*Source: New Jersey Office of the State Medical Examiner, 1/1/2015 to 6/30/2016.

Statewide Drug Harm Index

County	Suspected Heroin Submissions	Analyzed Heroin Glassine Bags	Fentanyl Submissions	LE & EMS Naloxone Administrations	*Drug Deaths	Drug-Related Arrests		Theft Arrests	Shooting Incidents	Sum of Categories	Final Rank
						Distribution	Possession				
Essex	3	1	4	2	1	1	1	1	1	15	1
Camden	1	9	1	1	2	2	2	4	2	24	2
Monmouth	5	5	5	7	4	6	4	6	10	52	3
Passaic	4	2	7	13	10	3	7	7	5	58	4
Middlesex	10	8	9	5	5	5	5	2	11	60	5
Ocean	2	3	6	3	3	9	8	12	14	60	6
Atlantic	7	4	3	4	6	11	14	8	7	64	7
Union	6	7	2	10	11	8	6	9	6	65	8
Bergen	11	11	11	9	8	7	3	3	12	75	9
Hudson	9	10	17	11	7	4	10	5	4	77	10
Mercer	8	6	13	12	13	10	12	13	3	90	11
Burlington	13	16	8	6	9	12	9	10	9	92	12
Gloucester	16	18	10	8	12	13	11	14	16	118	13
Cumberland	15	14	14	14	15	15	15	11	8	121	14
Morris	14	15	12	17	14	14	13	15	19	133	15
Cape May	12	12	16	15	17	16	18	17	17	140	16
Somerset	18	13	15	16	16	18	16	16	15	143	17
Sussex	17	17	18	20	18	17	17	20	18	162	18
Salem	21	21	21	19	21	20	19	19	13	174	19
Warren	19	20	19	18	19	21	20	18	20	174	20
Hunterdon	20	19	20	21	20	19	21	21	21	182	21

Drug Harms Index Rankings: 1/1/2015 to 3/31/2017

*Source: New Jersey Office of the State Medical Examiner, 1/1/2015 to 6/30/2016.

Statewide Drug Harm Index

Fentanyl Submissions & Rank		
County	Fentanyl Submissions	County Rank
Camden	406	1
Union	311	2
Atlantic	308	3
Essex	301	4
Monmouth	275	5
Ocean	260	6
Passaic	165	7
Burlington	136	8
Middlesex	136	9
Gloucester	120	10
Bergen	104	11
Morris	90	12
Mercer	84	13
Cumberland	75	14
Somerset	75	15
Cape May	74	16
Hudson	58	17
Sussex	49	18
Warren	37	19
Hunterdon	24	20
Salem	16	21
Total	3,104	

County Rankings
Fentanyl Submissions
1/1/2015 ~ 3/31/2017

The number in each county designates rank.

Statewide Drug Harm Index

Naloxone Administrations & Rank

County	EMS & LE Administrations	County Rank
Camden	3,084	1
Essex	2,171	2
Ocean	1,684	3
Atlantic	1,554	4
Middlesex	1,548	5
Burlington	1,437	6
Monmouth	1,210	7
Gloucester	1,200	8
Bergen	893	9
Union	870	10
Hudson	857	11
Mercer	787	12
Passaic	681	13
Cumberland	527	14
Cape May	433	15
Somerset	410	16
Morris	390	17
Warren	232	18
Salem	201	19
Sussex	147	20
Hunterdon	143	21
Total	**20,459**	

County Rankings
LE & EMS Naloxone Administrations
1/1/2015 ~ 3/31/2017

The number in each county designates rank.
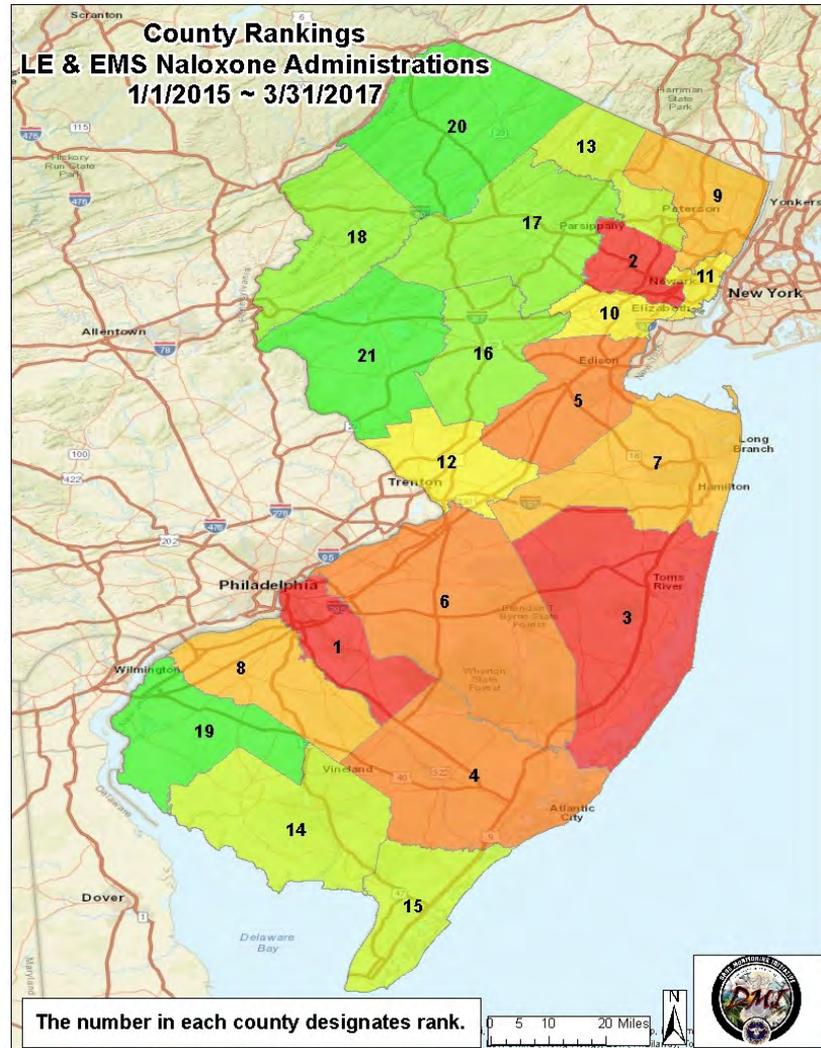
Drug Monitoring Initiative

Atlantic County Drug Environment

January 1, 2016 – September 30, 2017

ROIC201710-10620F

...v – Atlantic County
1/1/2016 ~ 9/30/2017

Background

- Atlantic County, New Jersey's 15th-largest county, is located in the southeastern coastal region of the state. Egg Harbor Twp. (pop 43,323 – 2010 US Census), is the largest municipality, followed by Atlantic City (pop 39,558 – 2010 US Census), which attracts thousands of tourists to its entertainment district year round. The county has both a drug demand and a drug supply problem.
- The Garden State Parkway and the Atlantic City Expressway provide quick access to Atlantic City. Its proximity to Camden (57 miles west) and Philadelphia, PA (an additional 5 miles west via the Benjamin Franklin Bridge), allows easy passage of both drugs and drug users into and out of the City.

Heroin Seizures

- 55% of suspected heroin seizures occurred in Atlantic City and Pleasantville.
- Atlantic City represented 43% of all submissions of suspected heroin in the county.
  - 7 submissions involved 1,000 or more glassine bags; 2 were from Atlantic City.
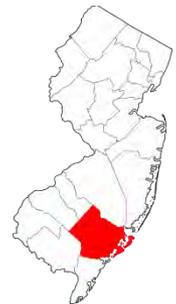
Fentanyl

- **28%** of suspected heroin submissions to forensic labs contained fentanyl class compounds.
  - Statewide, **19%** of suspected heroin submissions contained fentanyl class compounds.

Naloxone

- Males represent 67% of naloxone administrations.
- 67% of naloxone recipients were over the age of 30.
- 64% of naloxone administrations were to Atlantic County residents; 13% were out-of-county residents.
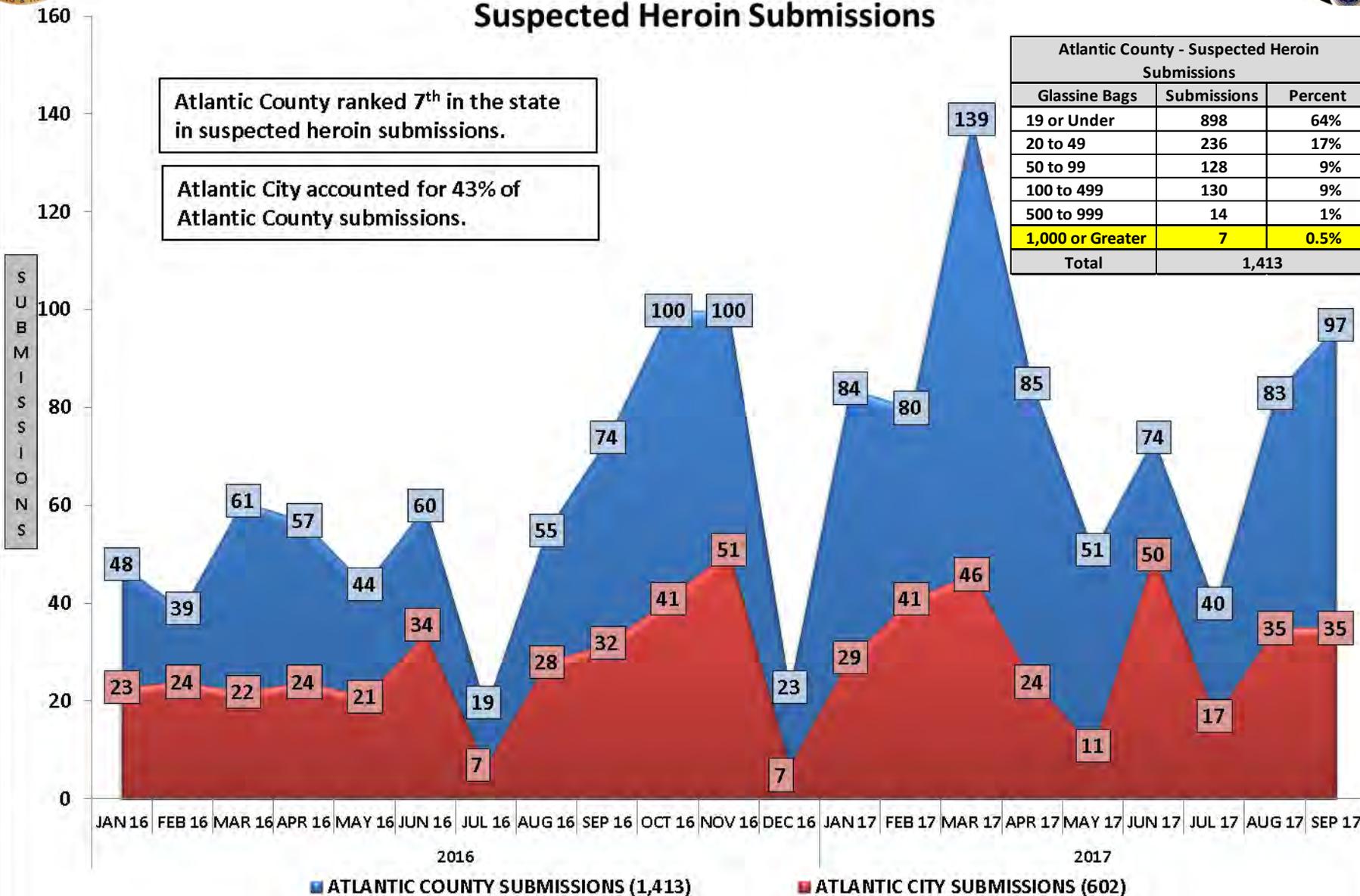 - Statewide, the majority of naloxone administrations also involved in-county residents.

Atlantic County 1/1/2016 to 9/30/2017
Suspected Heroin Submissions

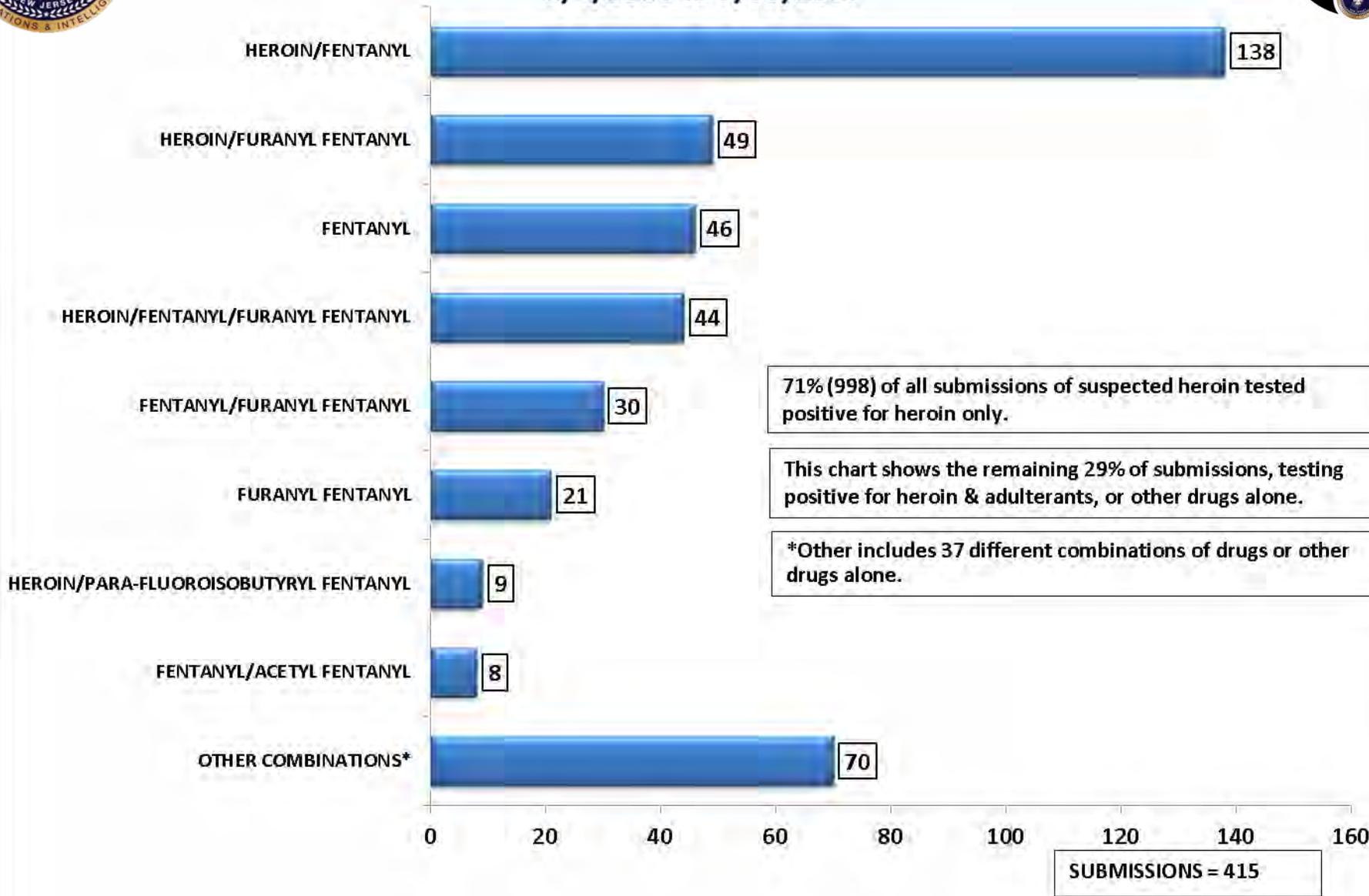Atlantic County ranked 7th in the state in suspected heroin submissions.

Atlantic City accounted for 43% of Atlantic County submissions.

Atlantic County - Suspected Heroin Submissions		
Glassine Bags	Submissions	Percent
19 or Under	898	64%
20 to 49	236	17%
50 to 99	128	9%
100 to 499	130	9%
500 to 999	14	1%
1,000 or Greater	7	0.5%
Total	1,413	

ATLANTIC COUNTY SUBMISSIONS (1,413)　　ATLANTIC CITY SUBMISSIONS (602)

Atlantic County Submissions: Adulterants
1/1/2016 to 9/30/2017

- HEROIN/FENTANYL — 138
- HEROIN/FURANYL FENTANYL — 49
- FENTANYL — 46
- HEROIN/FENTANYL/FURANYL FENTANYL — 44
- FENTANYL/FURANYL FENTANYL — 30
- FURANYL FENTANYL — 21
- HEROIN/PARA-FLUOROISOBUTYRYL FENTANYL — 9
- FENTANYL/ACETYL FENTANYL — 8
- OTHER COMBINATIONS* — 70

71% (998) of all submissions of suspected heroin tested positive for heroin only.

This chart shows the remaining 29% of submissions, testing positive for heroin & adulterants, or other drugs alone.

*Other includes 37 different combinations of drugs or other drugs alone.

SUBMISSIONS = 415

ATLANTIC COUNTY FENTANYL SUBMISSIONS
1/1/2016 TO 9/30/2017

Fentanyl Submissions		
Time Frame	Atlantic City	Atlantic County
Jan 1 to Sept 30, 2016	21	52
Jan 1 to Sept 30, 2017	104	312
Percent Increase	395%	500%

Fentanyl Submissions		
Year	Atlantic City	Atlantic County
2016	30	87
2017 (to Sept 30)	104	312
Percent Increase	247%	259%

■ ATLANTIC COUNTY (399)   ■ ATLANTIC CITY (134)

11/14/2017

38
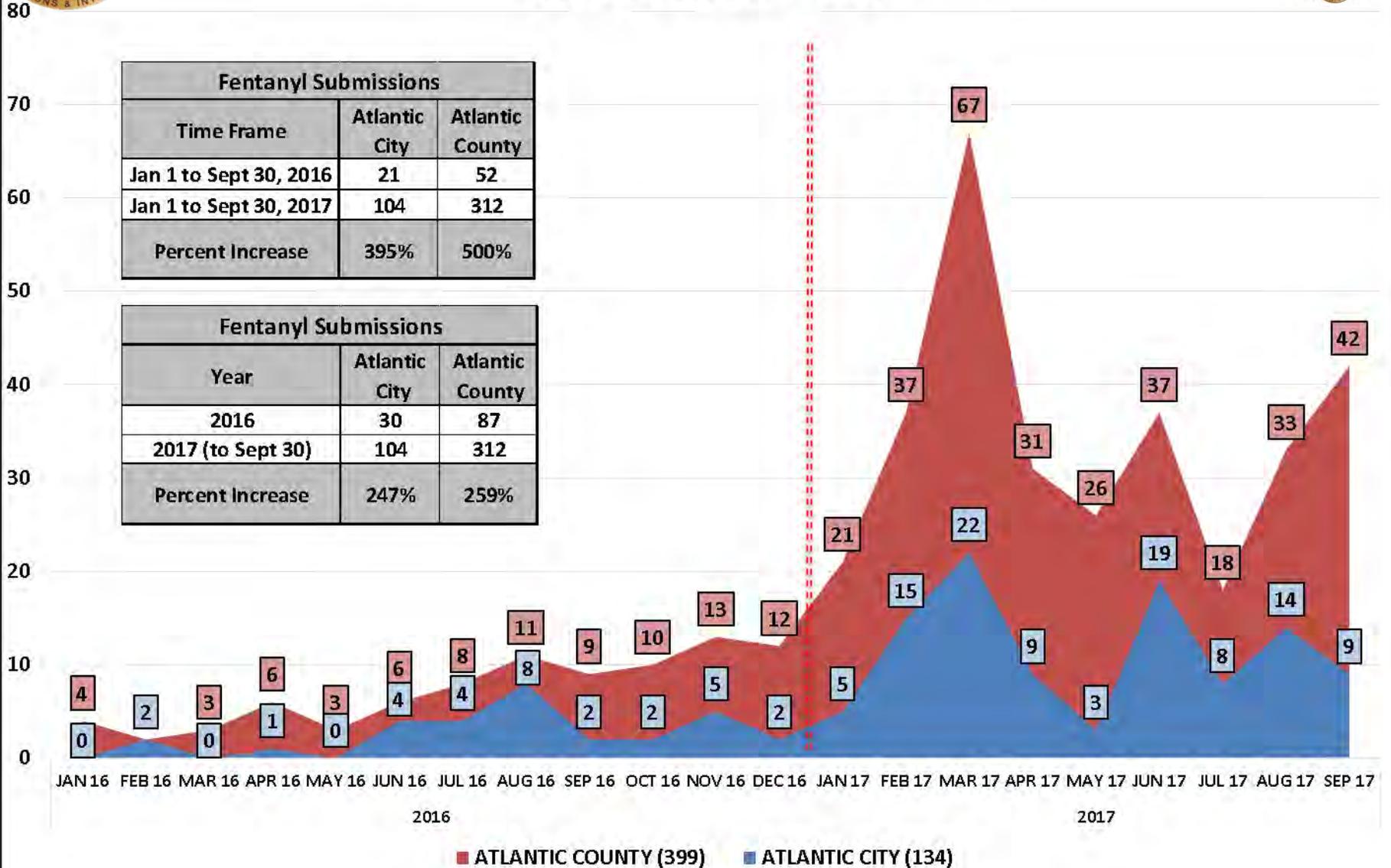
ATLANTIC COUNTY FENTANYL SUBMISSIONS
1/1/2016 TO 9/30/2017

Atlantic County ranked:
 3rd in fentanyl submissions (11%)

*OTHER MUNICIPALITIES
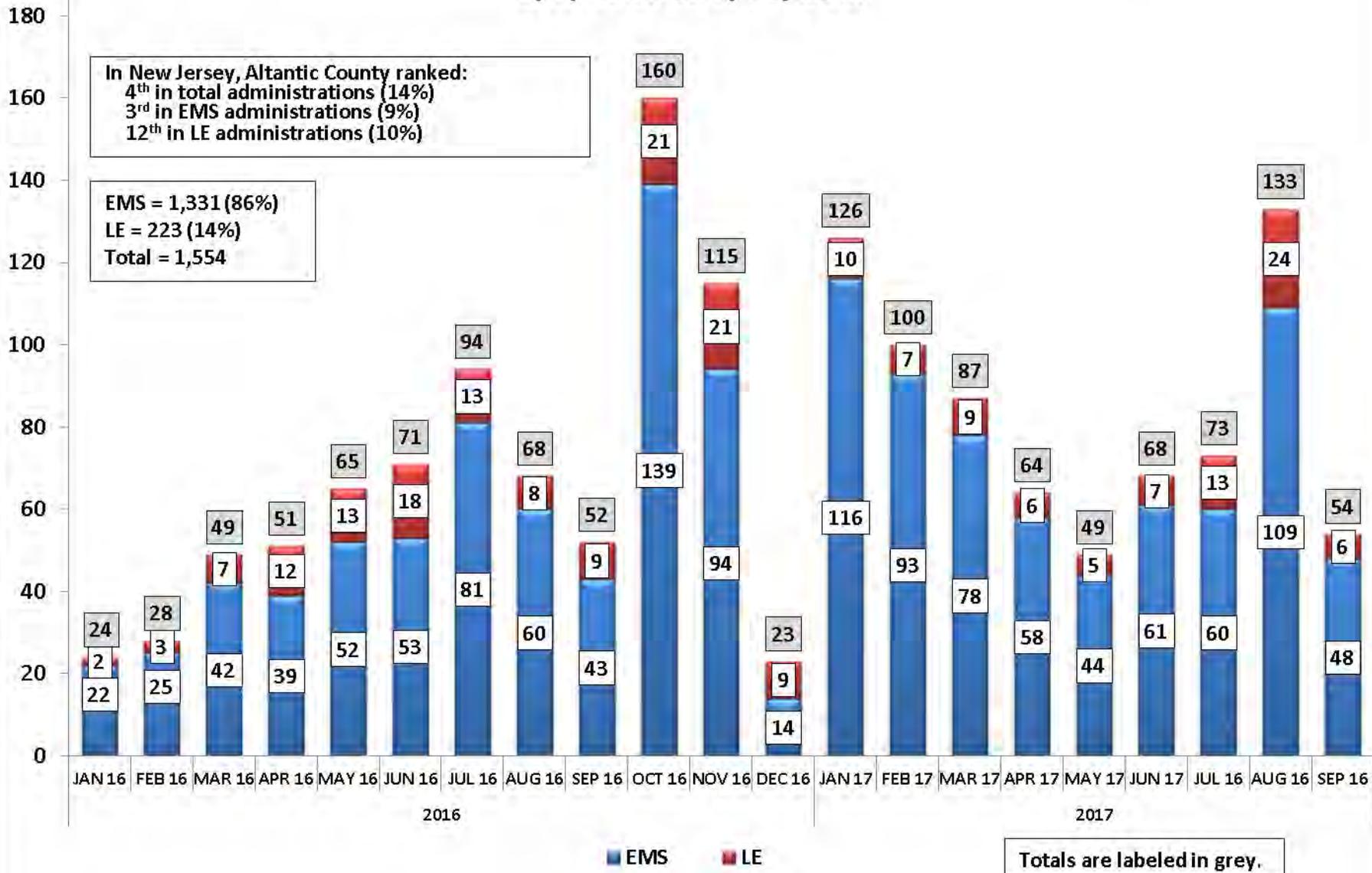63
16%

ATLANTIC CITY
134
34%

EGG HARBOR CTY
28
7%

GALLOWAY
36
9%

MAYS LANDING
49
12%

EGG HARBOR TWP
40
10%

PLEASANTVILLE
49
12%
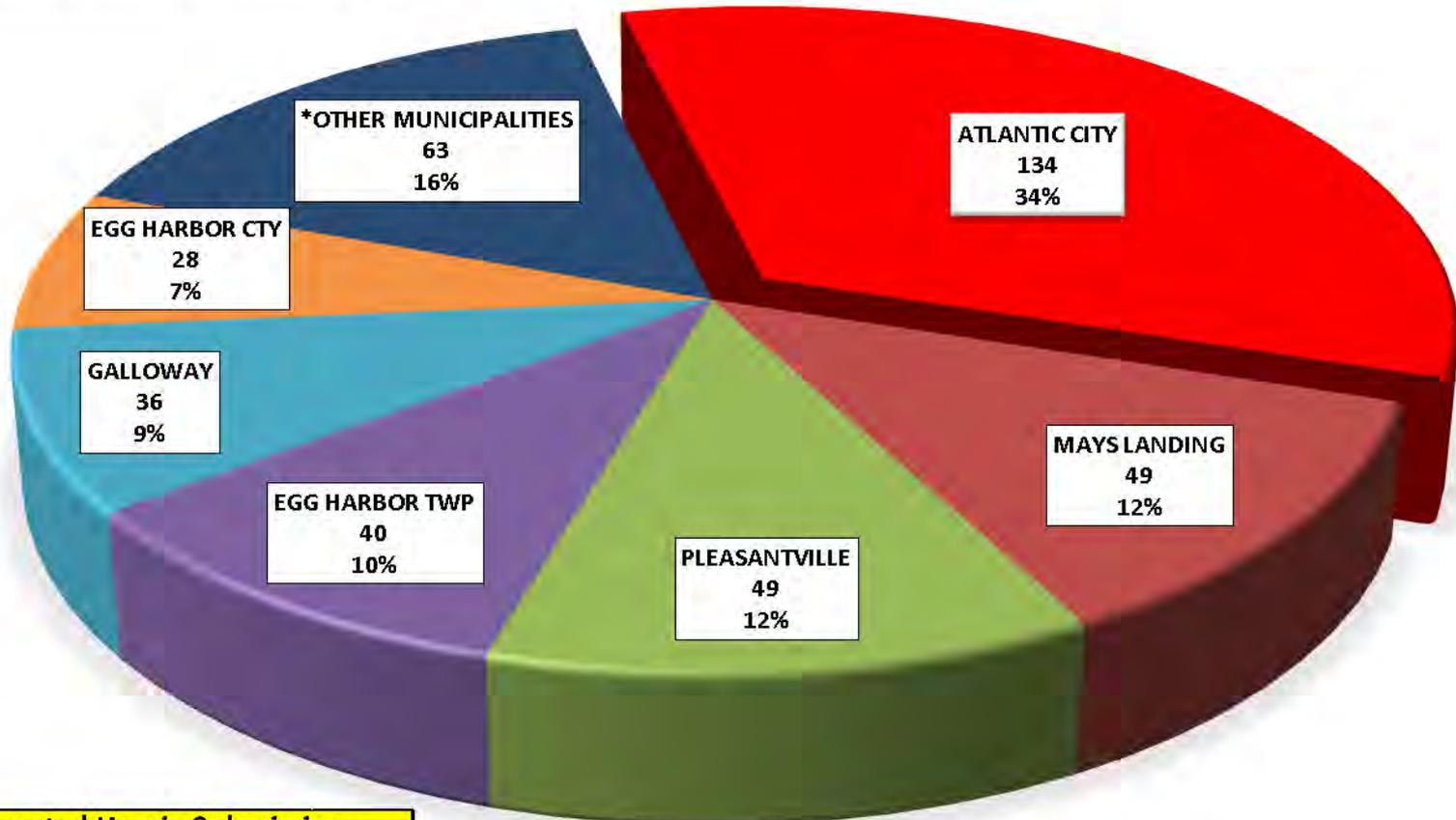
TOTAL = 399

Suspected Heroin Submissions Testing Positive for Fentanyls	
Atlantic County:	28%
New Jersey - All Counties:	19%

11/14/2017
39

LE & EMS Naloxone Administrations - Atlantic County
1/1/2016 to 9/30/2017

In New Jersey, Altantic County ranked:
 4th in total administrations (14%)
 3rd in EMS administrations (9%)
 12th in LE administrations (10%)

EMS = 1,331 (86%)
LE = 223 (14%)
Total = 1,554

Month	EMS	LE	Total
JAN 16	22	2	24
FEB 16	25	3	28
MAR 16	42	7	49
APR 16	39	12	51
MAY 16	52	13	65
JUN 16	53	18	71
JUL 16	81	13	94
AUG 16	60	8	68
SEP 16	43	9	52
OCT 16	139	21	160
NOV 16	94	21	115
DEC 16	14	9	23
JAN 17	116	10	126
FEB 17	93	7	100
MAR 17	78	9	87
APR 17	58	6	64
MAY 17	44	5	49
JUN 17	61	7	68
JUL 16	60	13	73
AUG 16	109	24	133
SEP 16	48	6	54

2016

2017

■ EMS ■ LE

Totals are labeled in grey.

LE & EMS Naloxone Administrations - Atlantic County
1/1/2016 to 9/30/2017

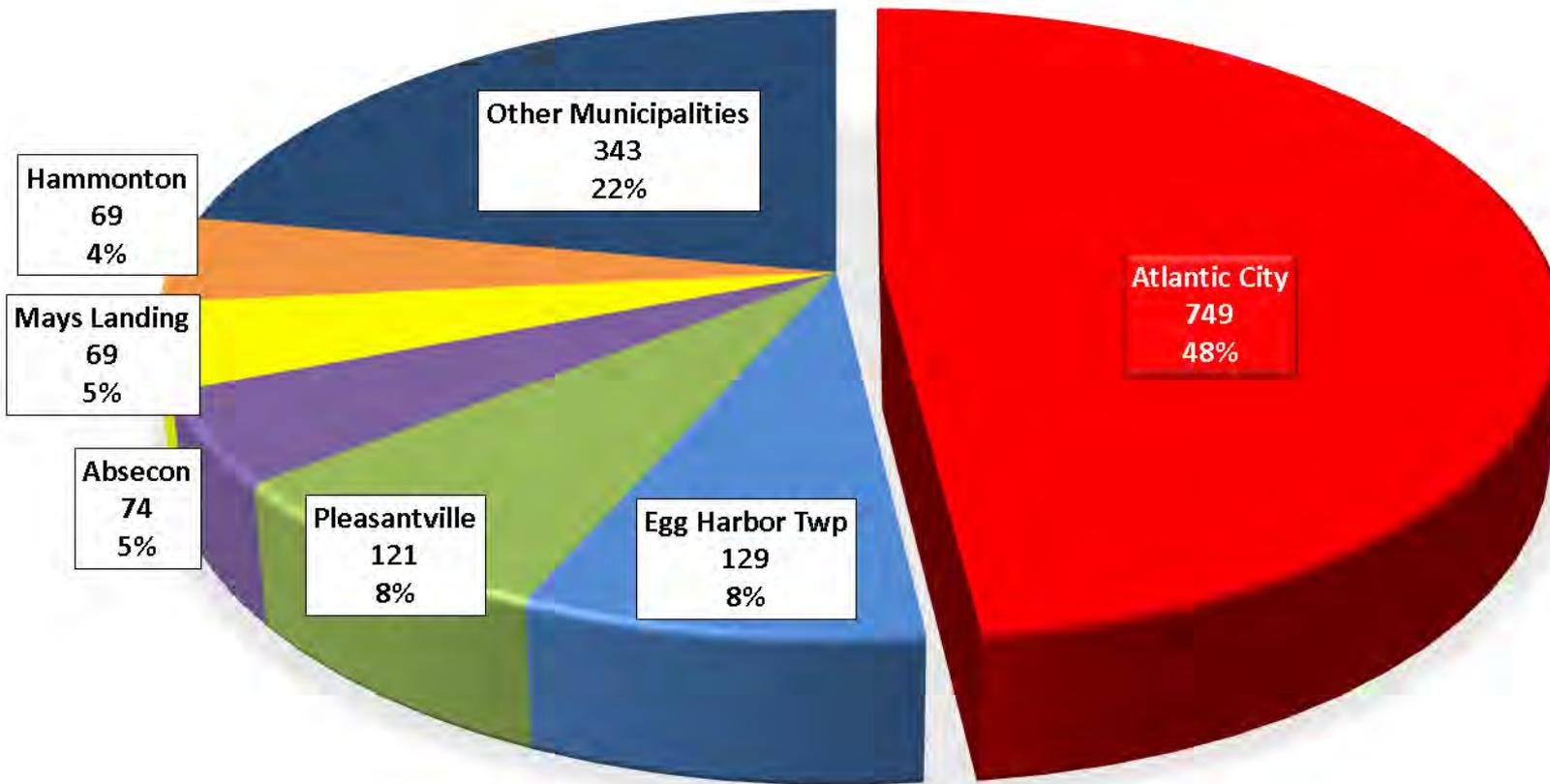65% of naloxone administrations occurred between 1 pm & midnight.

Legend:
- MONDAY (179)
- TUESDAY (225)
- WEDNESDAY (204)
- THURSDAY (204)
- FRIDAY (258)
- SATURDAY (281)
- SUNDAY (203)

TIME OF DAY

Time	Values
1 - 4 AM (160)	23, 14, 17, 26, 27, 33, 20
5 - 8 AM (132)	17, 20, 19, 9, 21, 28, 18
9 AM - NOON (245)	29, 42, 39, 33, 31, 45, 26
1 - 4 PM (343)	34, 53, 27, 40, 71, 64, 54
5 - 8 PM (381)	42, 62, 59, 57, 54, 64, 43
9 - MIDNIGHT (293)	34, 34, 43, 39, 54, 47, 42
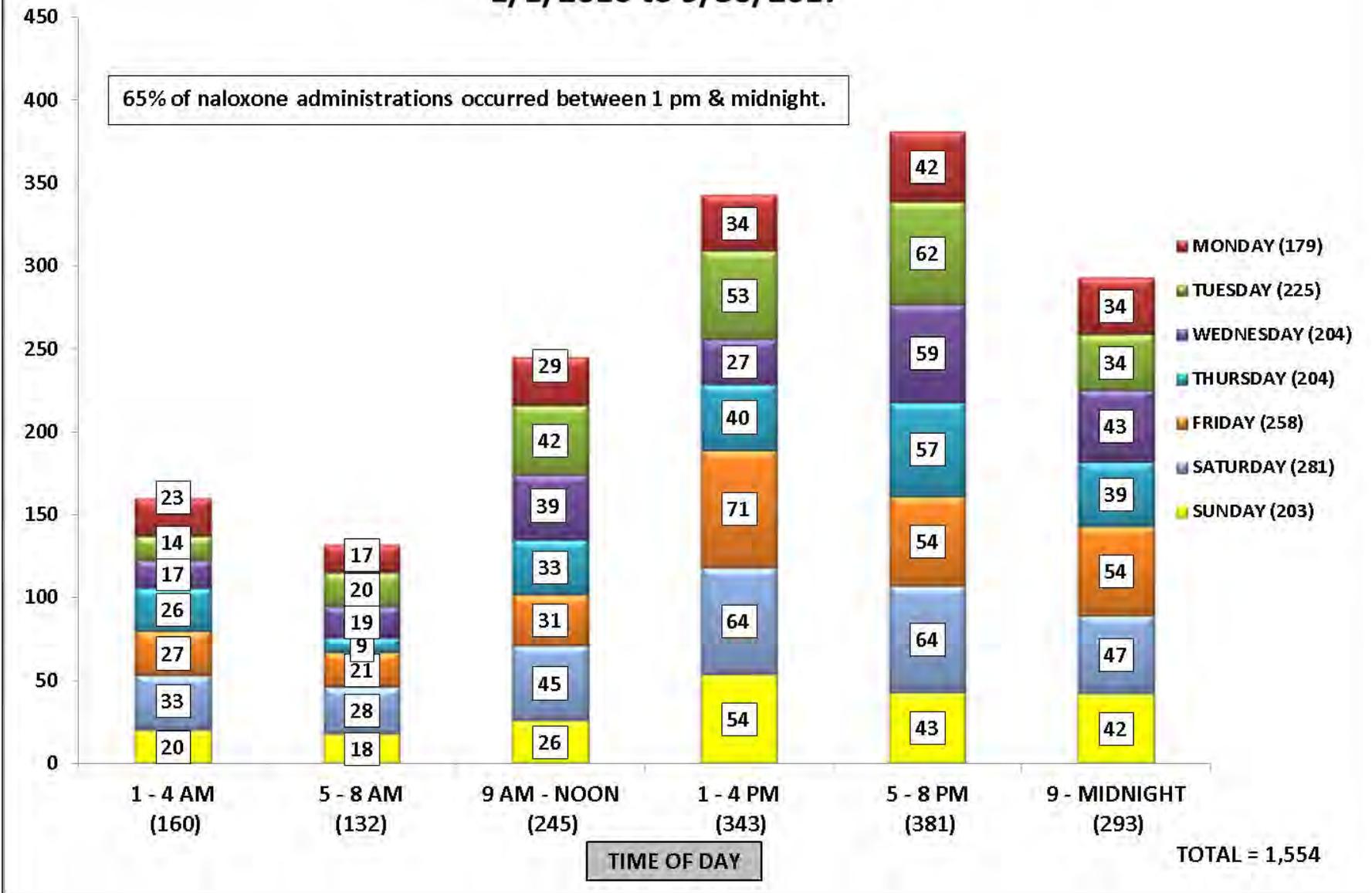
TOTAL = 1,554

LE & EMS Naloxone Administrations - Atlantic County
1/1/2016 to 9/30/2017

46% of recipients were between 25 & 44.

Males represent 67% of administrations.
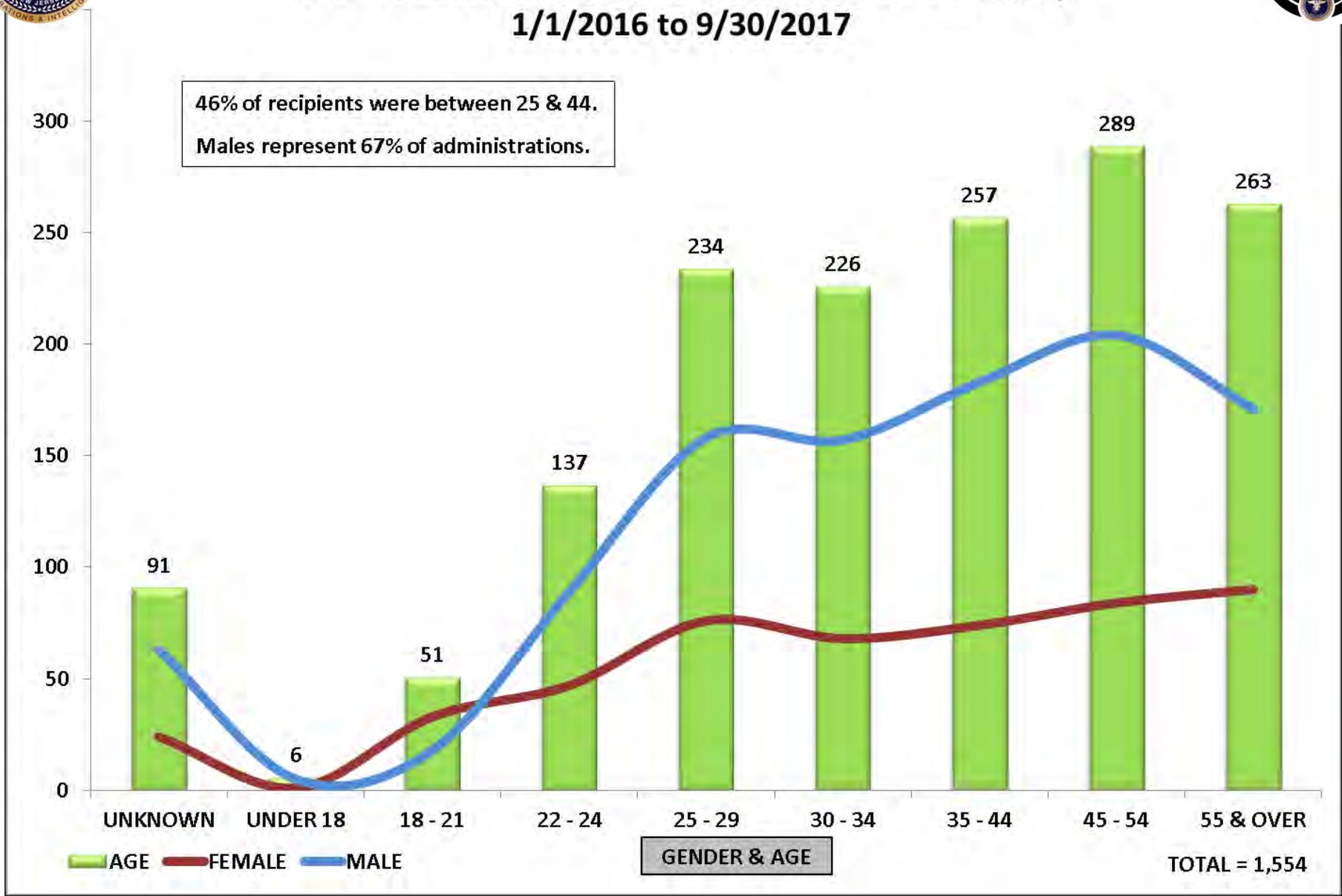
LE & EMS NALOXONE ADMINISTRATIONS - ATLANTIC COUNTY MUNICIPALITIES
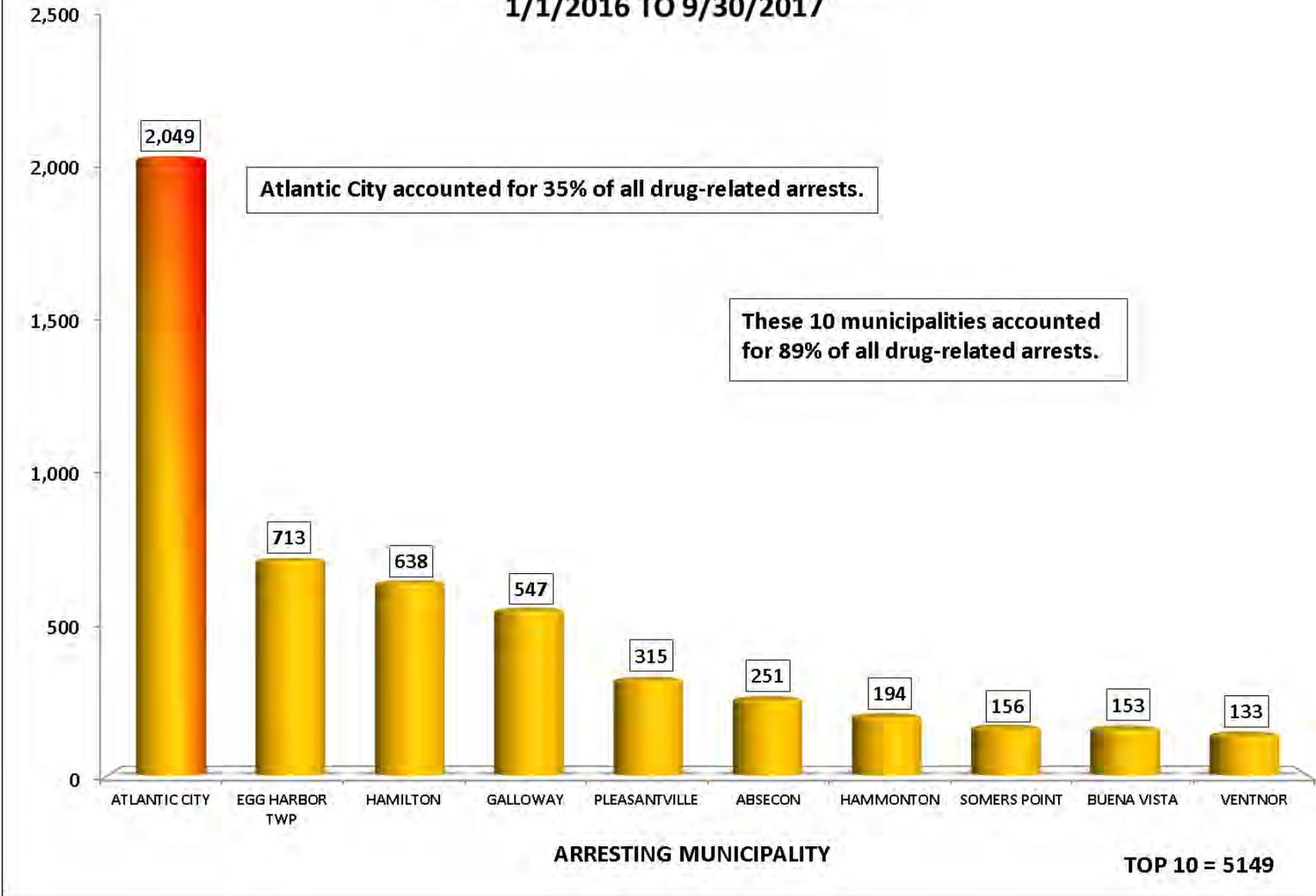### 1/1/2016 TO 9/30/2017

Other Municipalities
343
22%

Hammonton
69
4%

Mays Landing
69
5%

Absecon
74
5%

Pleasantville
121
8%

Egg Harbor Twp
129
8%

Atlantic City
749
48%

TOTAL = 1,554

ATLANTIC COUNTY DRUG-RELATED ARRESTS
1/1/2016 TO 9/30/2017

Arrests during the first 9 months of 2017
increased 23% over the first 9 months of 2016.

Atlantic County averaged 275 arrests per month.
Atlantic City averaged 98 arrests per month.

ATLANTIC COUNTY = 5,782
ATLANTIC CITY = 2,049 (35%)

ATLANTIC COUNTY   ATLANTIC CITY
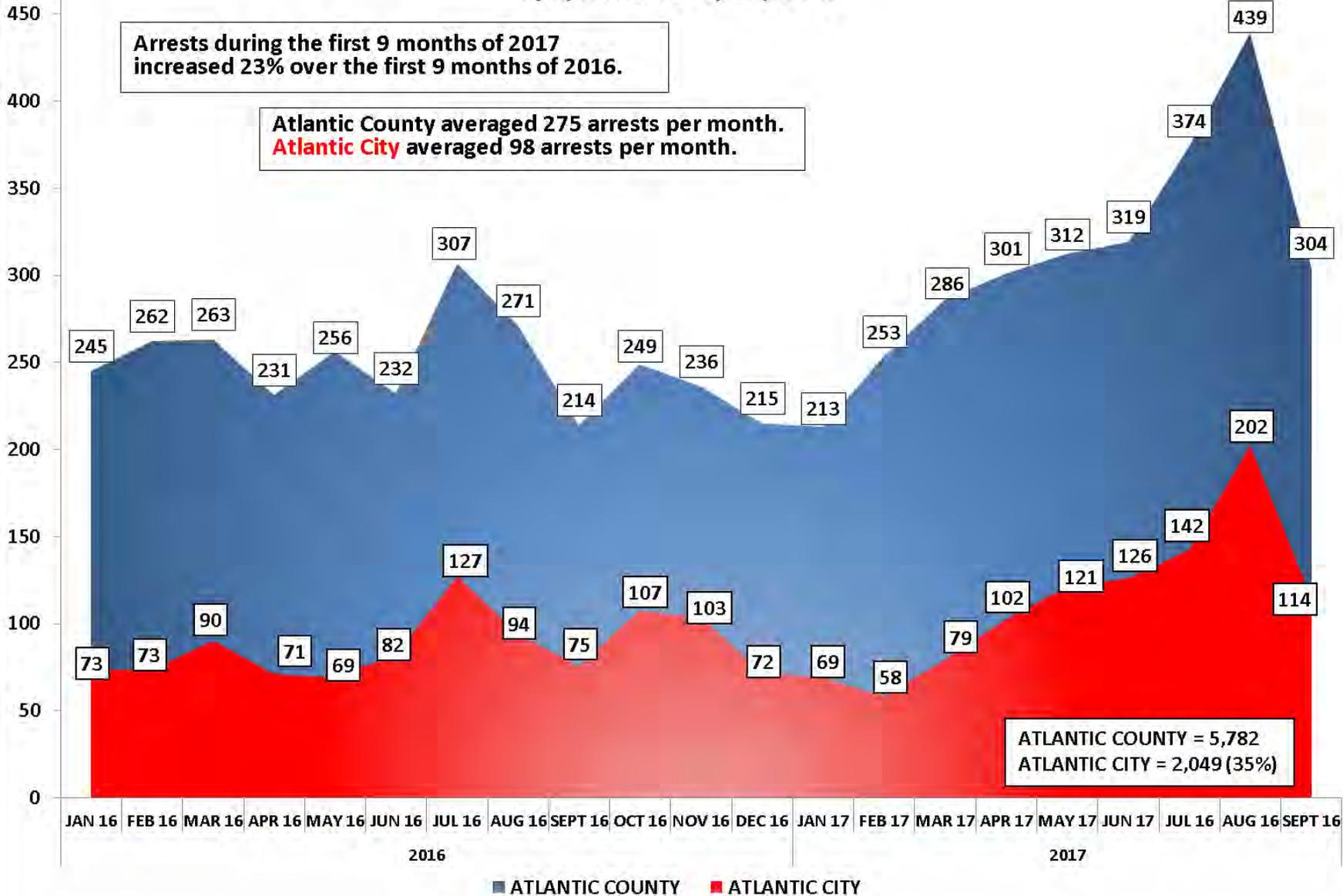
ATLANTIC COUNTY DRUG-RELATED ARRESTS
TOP 10 ARRESTING MUNICIPALITIES
1/1/2016 TO 9/30/2017

Atlantic City accounted for 35% of all drug-related arrests.

These 10 municipalities accounted for 89% of all drug-related arrests.

ARRESTING MUNICIPALITY

TOP 10 = 5149

ATLANTIC COUNTY DRUG-RELATED ARRESTS
1/1/2016 TO 9/30/2017

MALE
4,591
79%

FEMALE
1,182
21%

UNKNOWN
9
0.2%
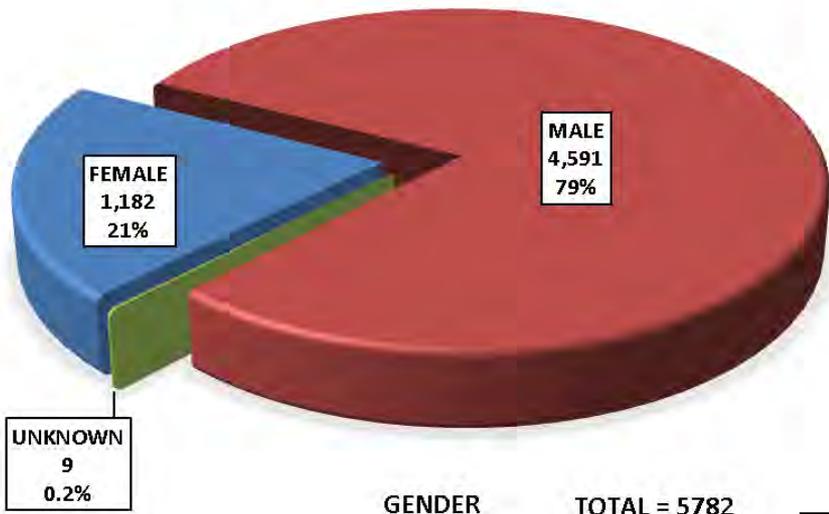
GENDER   TOTAL = 5782

ATLANTIC COUNTY DRUG-RELATED ARRESTS
1/1/2016 TO 9/30/2017
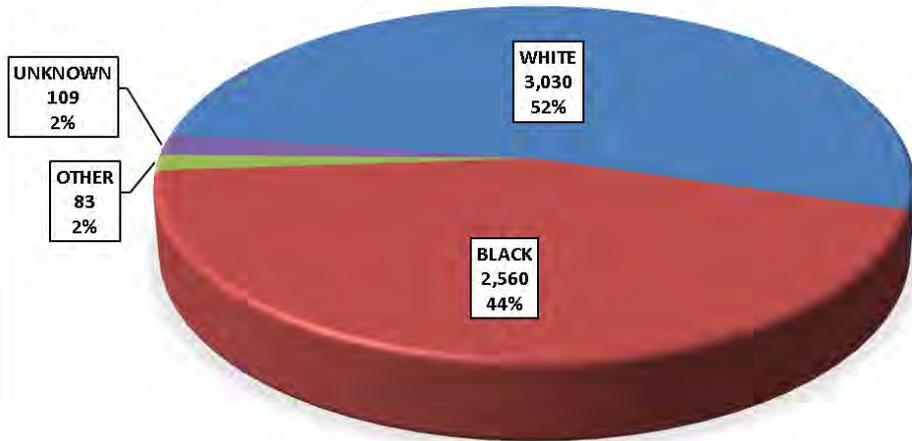
WHITE
3,030
52%

UNKNOWN
109
2%

OTHER
83
2%

BLACK
2,560
44%

RACE   TOTAL = 5782

ATLANTIC COUNTY DRUG-RELATED ARRESTS
1/1/2016 TO 9/30/2017

55% of arrestees were between 18 and 29.

TOTAL = 5782
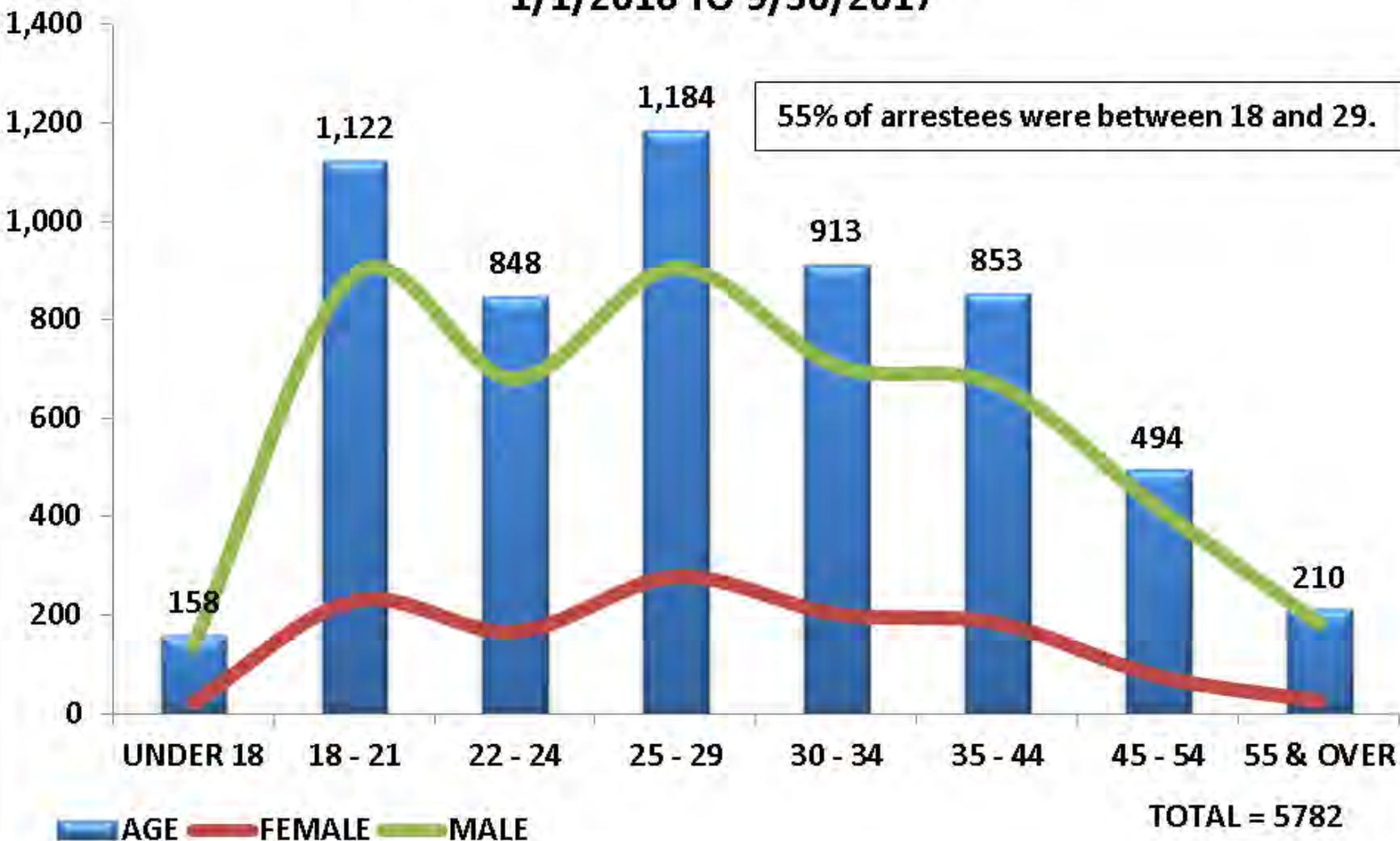
ATLANTIC COUNTY DRUG DISTRIBUTION ARRESTS
TOP 10 ARRESTING MUNICIPALITIES
1/1/2016 TO 9/30/2017
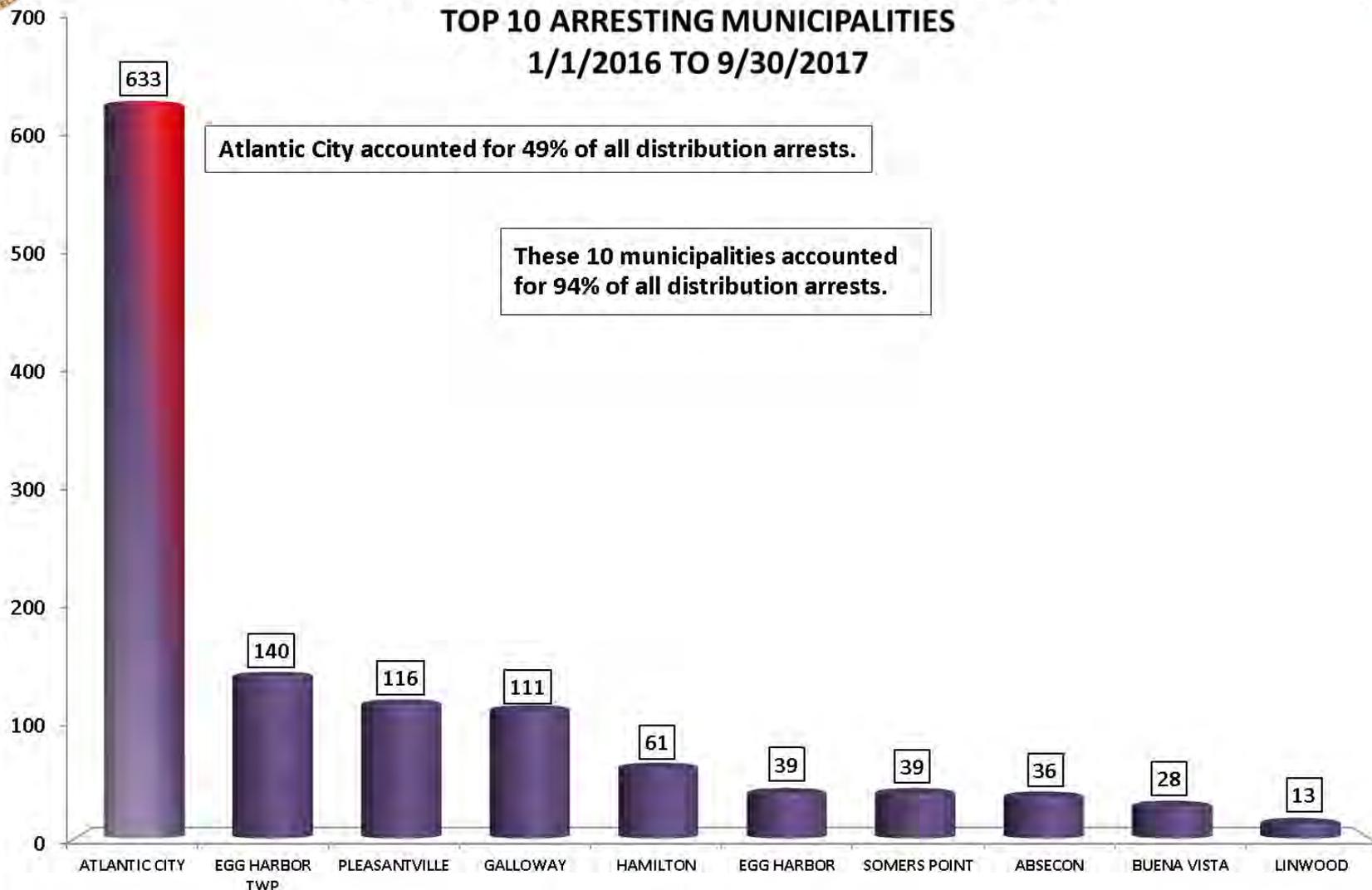
Atlantic City accounted for 49% of all distribution arrests.

These 10 municipalities accounted for 94% of all distribution arrests.

ANY ARREST WITH A DISTRIBUTION CHARGE IS COUNTED AS A DISTRIBUTION ARREST
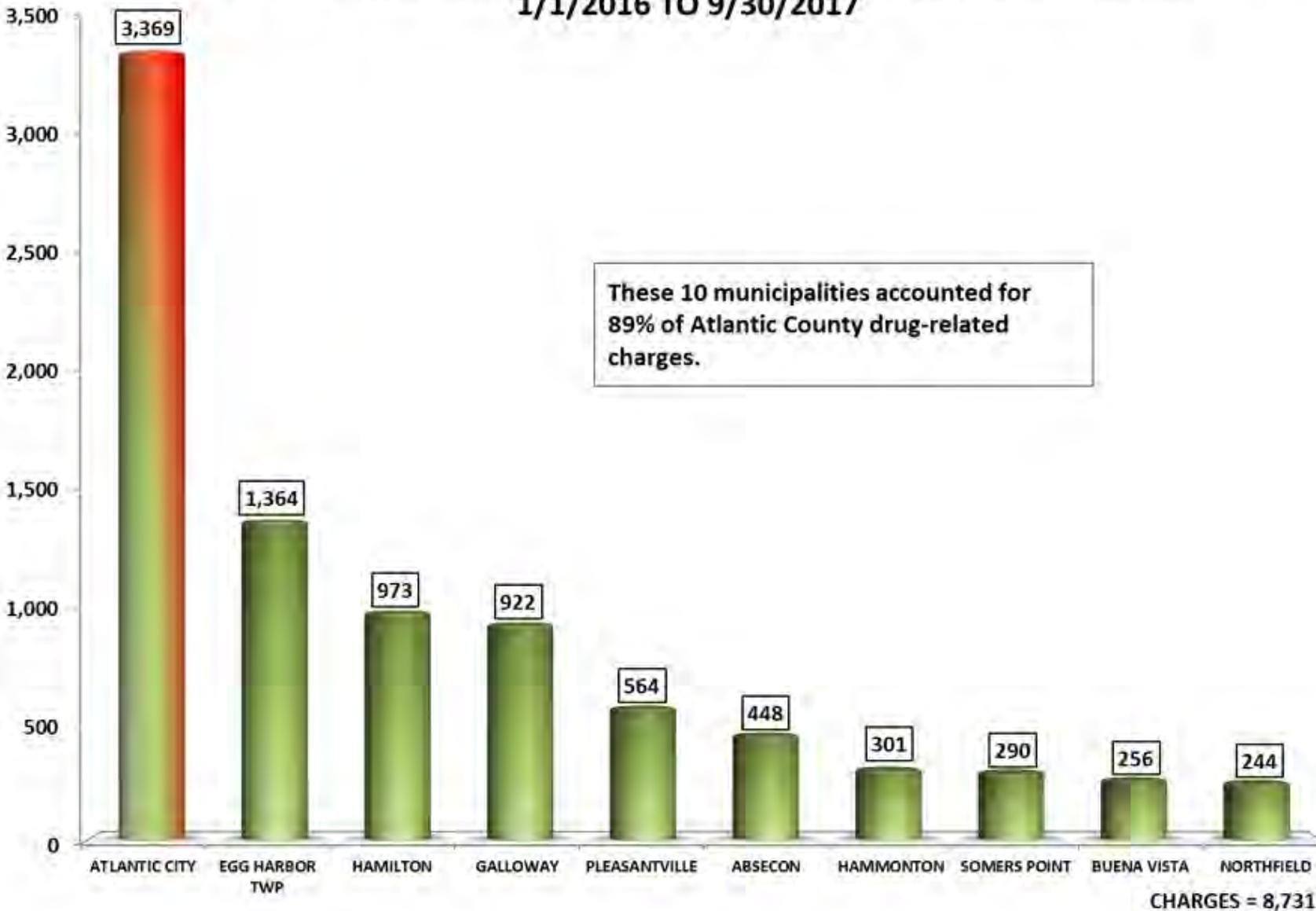
ARRESTING MUNICIPALITY

TOP 10 = 1,216

ATLANTIC COUNTY DRUG-RELATED ARRESTS 1/1/2016 TO 9/30/2017	
TOTAL ARRESTS	5,782
DISTRIBUTION	POSSESSION
1,287	4,495
22%	78%
ANY ARREST WITH A DISTRIBUTION CHARGE IS COUNTED AS A DISTRIBUTION ARREST.	

DISTRIBUTION VS POSSESSION ARRESTS

ATLANTIC COUNTY DRUG-RELATED DISTRIBUTION ARRESTS 1/1/2016 TO 9/30/2017		
TOP 10 ARRESTING MUNICIPALITIES	ARRESTS	PERCENT
ATLANTIC CITY	633	49%
EGG HARBOR TWP	140	11%
PLEASANTVILLE	116	9%
GALLOWAY	111	9%
HAMILTON	61	5%
EGG HARBOR	39	3%
SOMERS POINT	39	3%
ABSECON	36	3%
BUENA VISTA	28	2%
LINWOOD	13	1%
Of the 1,287 total distribution arrests, these 10 municipalities represent:	1,216	94%

ATLANTIC COUNTY DRUG-RELATED POSSESSION ARRESTS 1/1/2016 TO 9/30/2017		
TOP 10 RESIDENT MUNICIPALITIES	ARRESTS	PERCENT
ATLANTIC CITY	600	13%
EGG HARBOR TWP	258	6%
MAYS LANDING	178	4%
PLEASANTVILLE	168	4%
GALLOWAY	161	4%
PHILADELPHIA, PA	109	2%
HAMMONTON	107	2%
SOMERS POINT	107	2%
EGG HARBOR CITY	98	2%
VENTNOR	76	2%
Of the 4,495 total possession arrests, these 10 municipalities represent:	1,862	41%

ATLANTIC COUNTY DRUG-RELATED CHARGES - TOP 10 MUNICIPALITIES
1/1/2016 TO 9/30/2017

These 10 municipalities accounted for 89% of Atlantic County drug-related charges.

CHARGES = 8,731

Atlantic County Suspected Heroin Seizures 1/1/2016 ~ 9/30/2017
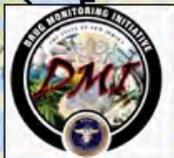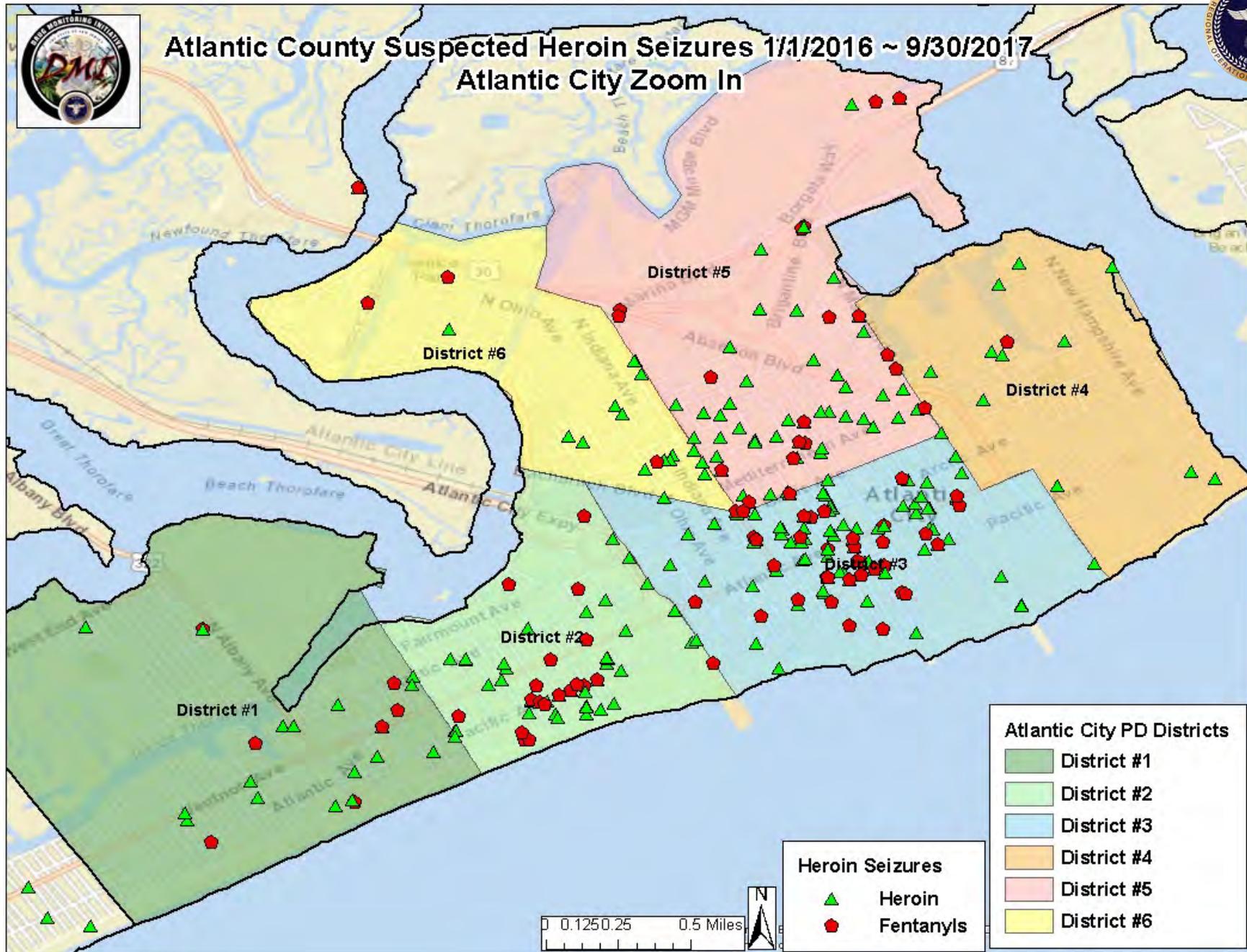
Heroin Seizures
- ▲ Heroin
- ⬠ Fentanyls

Atlantic County Suspected Heroin Seizures 1/1/2016 ~ 9/30/2017
Atlantic City & Pleasantville Zoom In
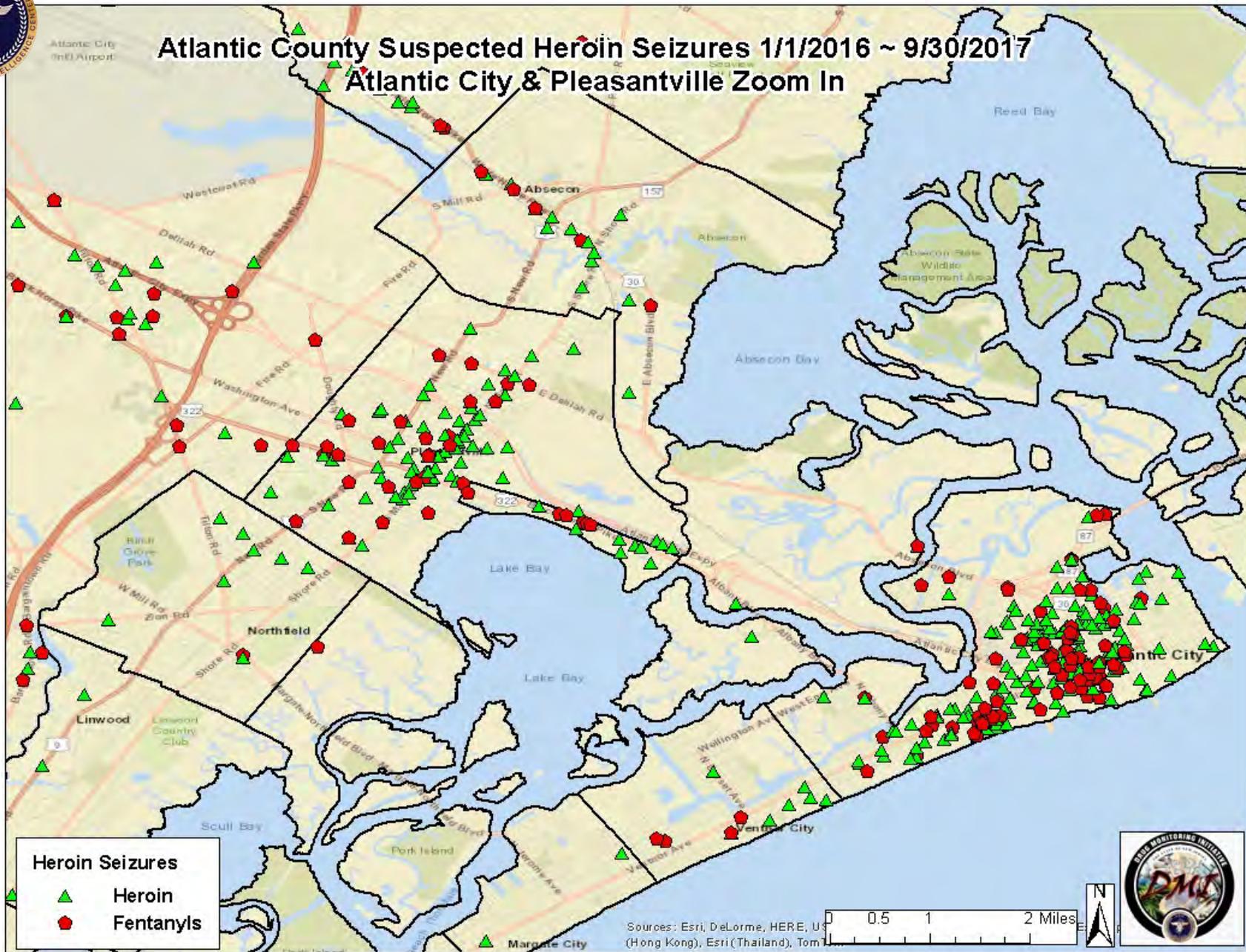
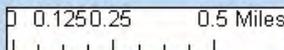Atlantic County Suspected Heroin Seizures 1/1/2016 ~ 9/30/2017
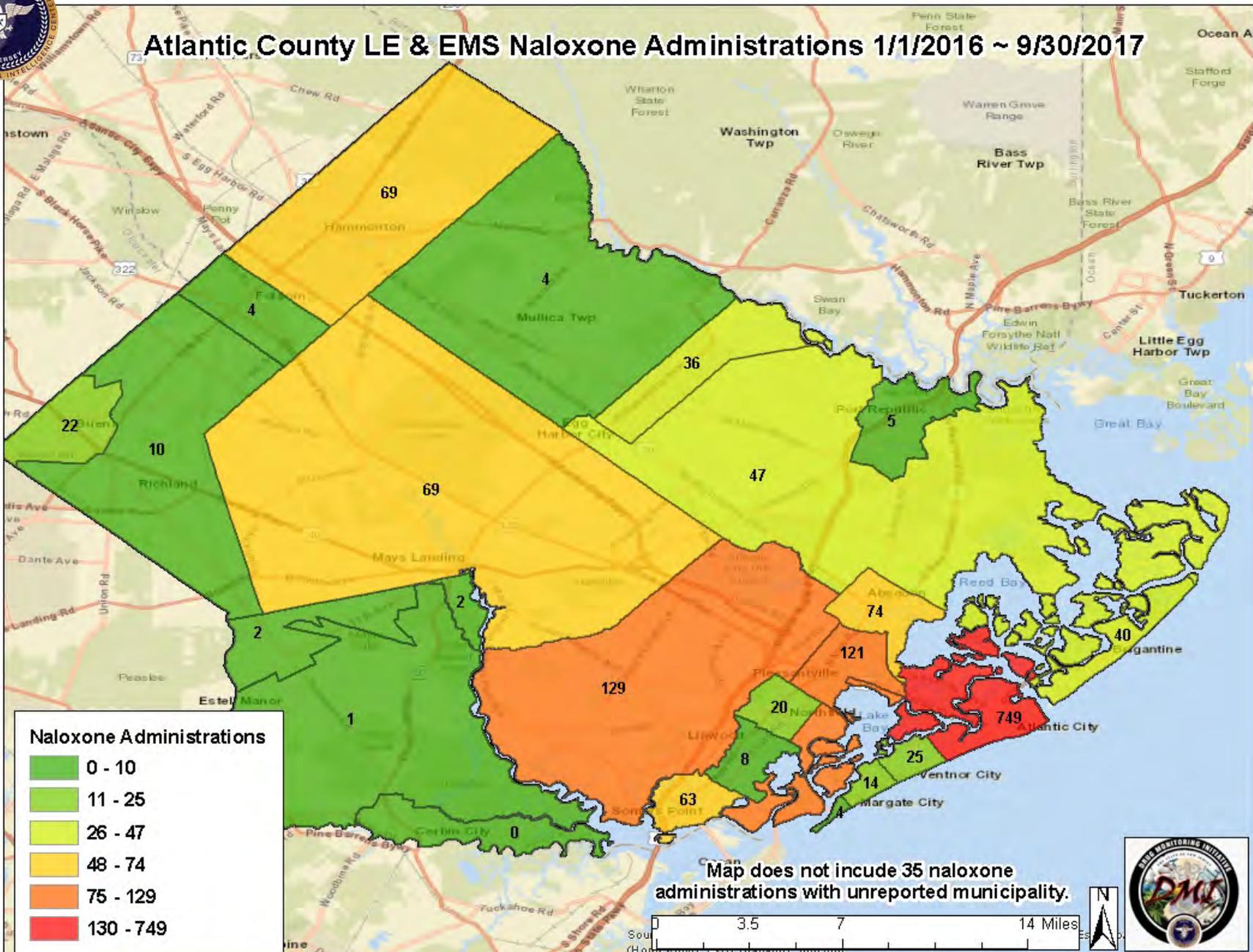Atlantic City Zoom In

53

Atlantic County LE & EMS Naloxone Administrations 1/1/2016 ~ 9/30/2017

Naloxone Administrations

- 0 - 10
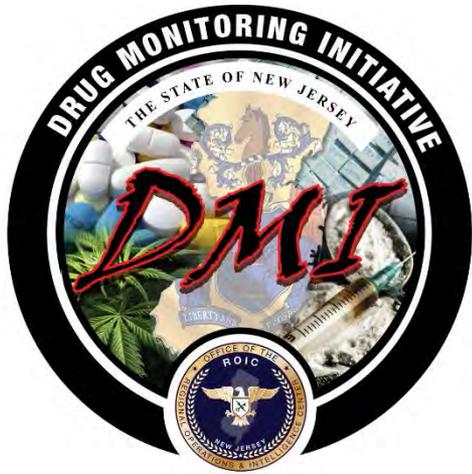- 11 - 25
- 26 - 47
- 48 - 74
- 75 - 129
- 130 - 749

Map does not incude 35 naloxone administrations with unreported municipality.

54

Atlantic County LE & EMS Naloxone Administrations & Suspected Heroin Seizures 1/1/2016 ~ 9/30/2017

Naloxone Administrations
- 0 - 10
- 11 - 25
- 26 - 47
- 48 - 74
- 75 - 129
- 130 - 749

Heroin Seizures
- △ Heroin
- ⬠ Fentanyls

Map does not incude 35 naloxone administrations with unreported municipality.
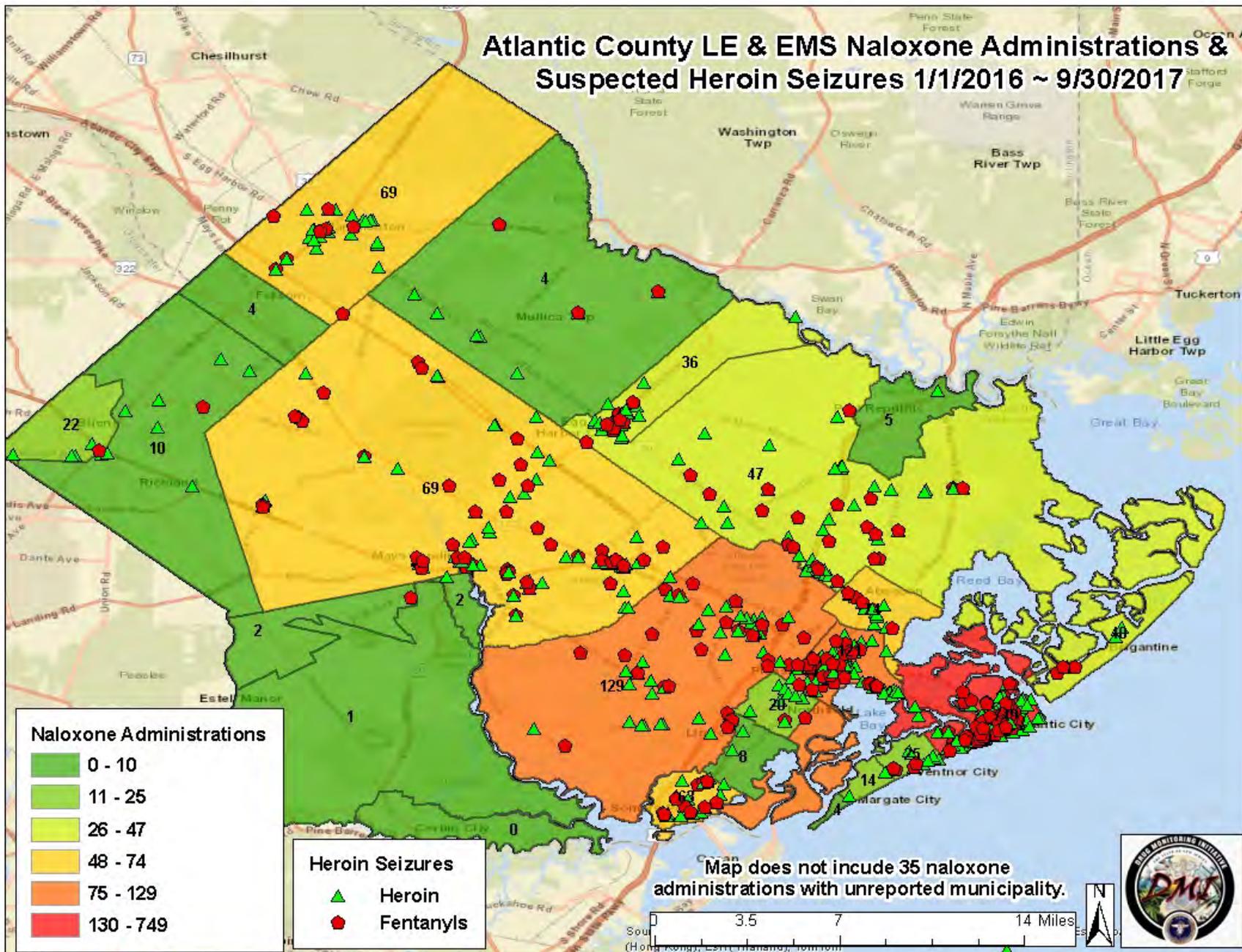
INTELLIGENCE-LED POLICING
INTELLIGENCE-LED HEALTHCARE

- Analysis

People

- Data

Process

Platforms

- Knowledge

Intelligence

Treatment

Enforcement

Prevention
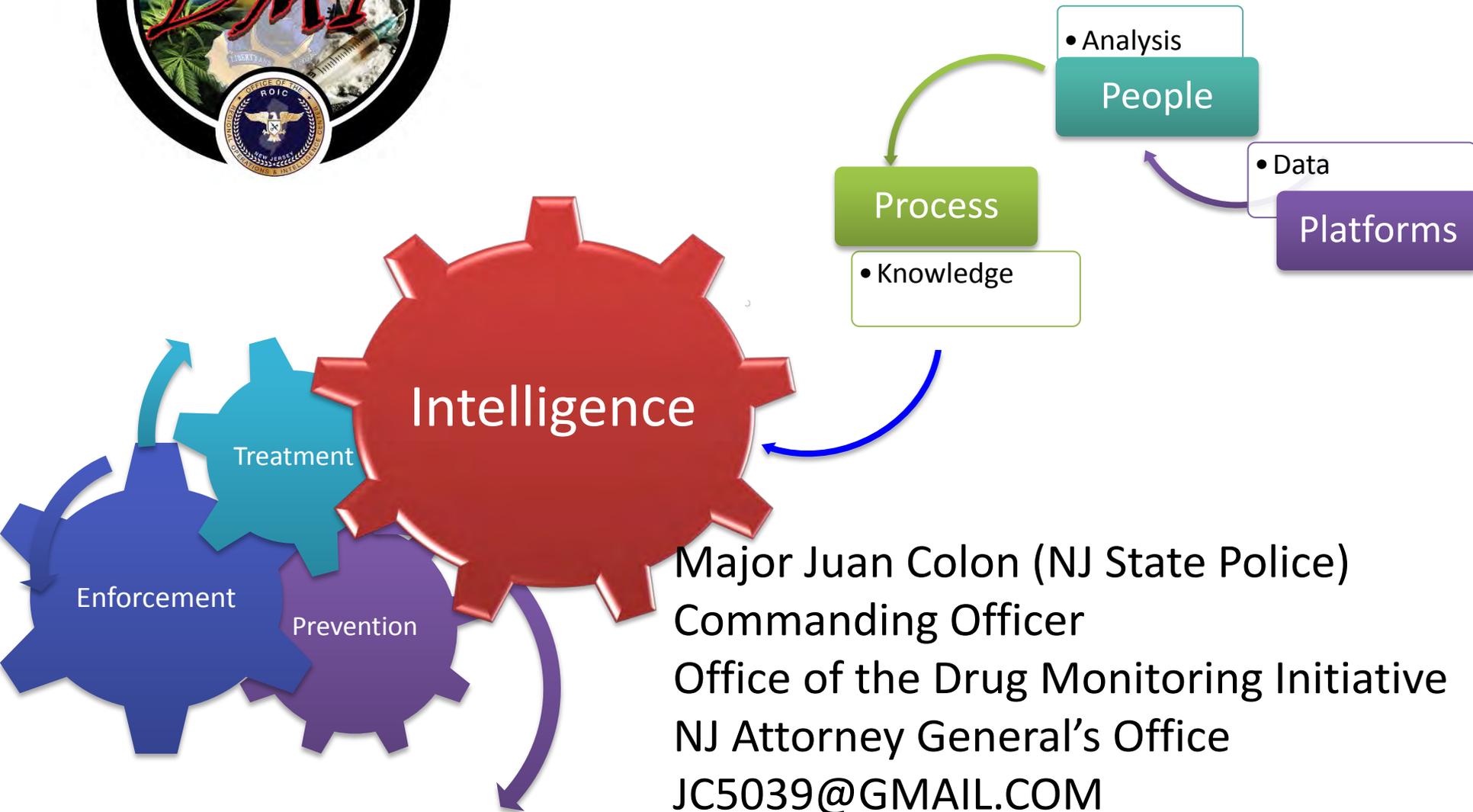
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