



DISTRICT OF COLUMBIA

DFS

**DEPARTMENT OF
FORENSIC SCIENCES**

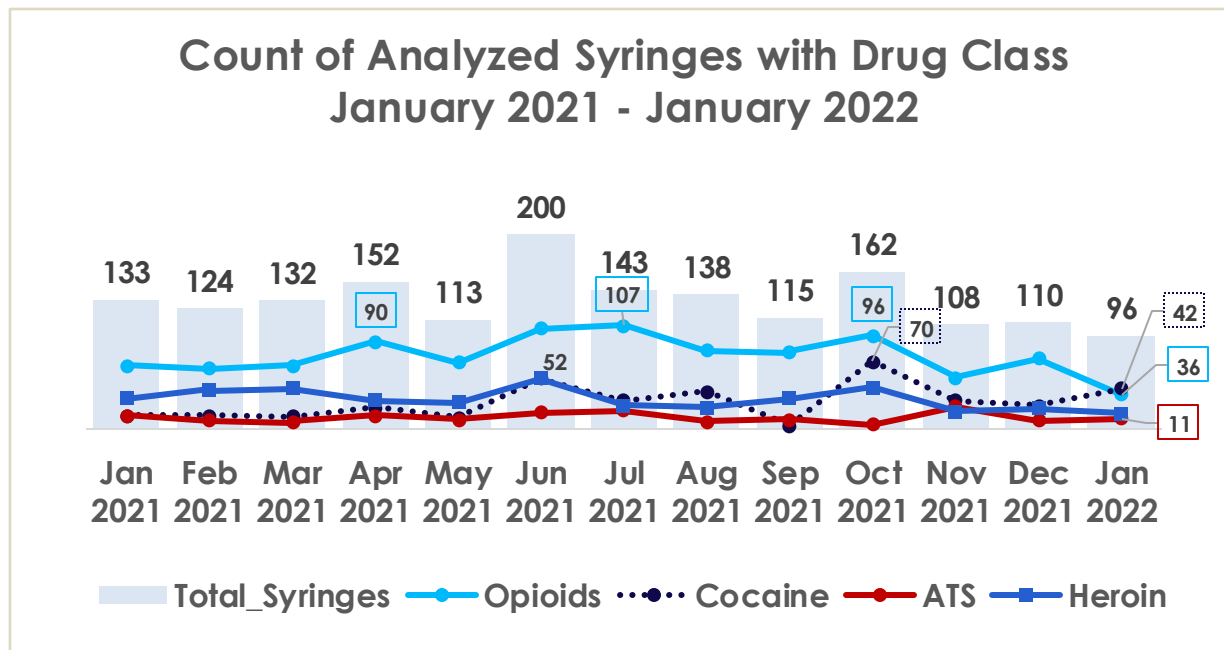
Forensic Science Laboratory | Public Health Laboratory | Crime Scene Sciences

DFS Forensic Chemistry Unit (FCU)

***Needle Exchange Intelligence Services (NEXIS)
Annual Summary Report***

January 2022

Count of Analyzed Syringes (Jan 2021 – Jan 2022)

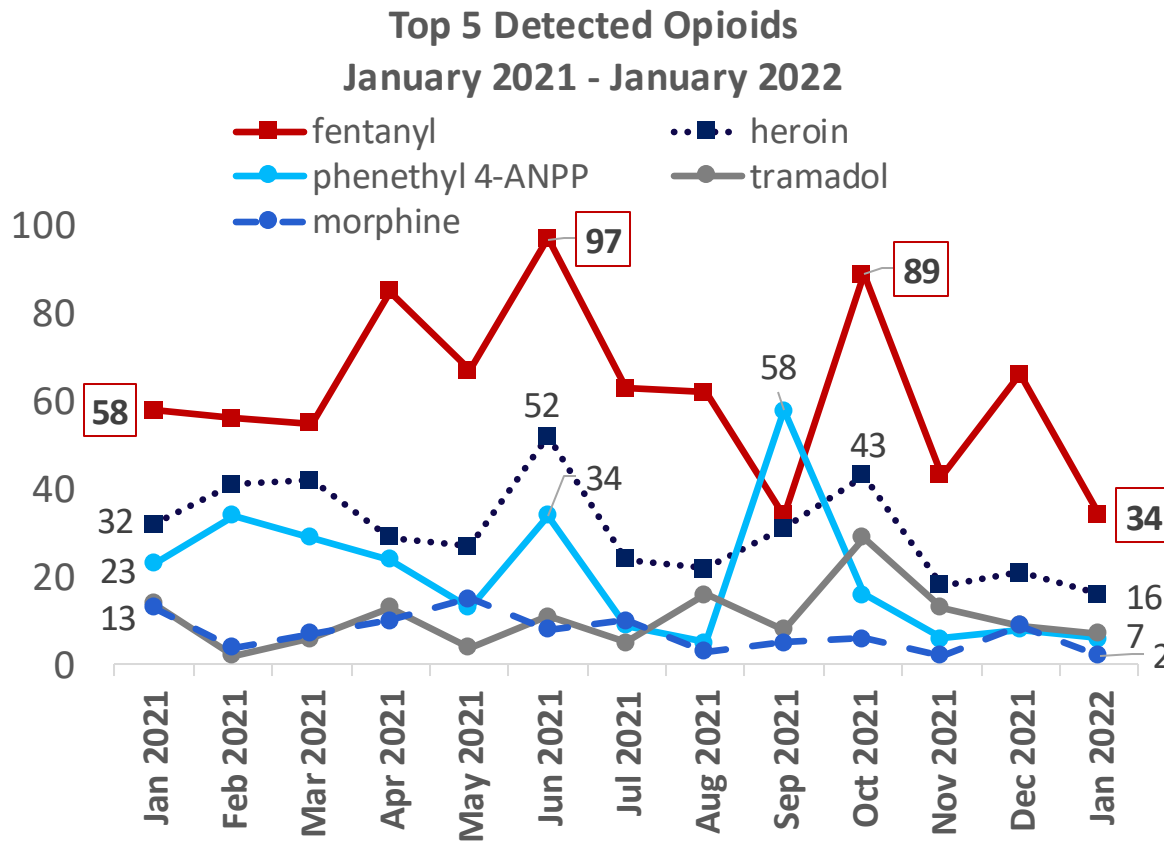


Line Graph of Drug Class Trends. Lines represent the number of syringes that contain a given substance or combination of given substances over the past 13-month period. Bars represent the total number of syringes analyzed by month.

Summary

- 1,726 syringes were analyzed between January 2021 to January 2022.
- The top five CDS detected over the past 13-month period were:
 - fentanyl (47%)
 - heroin (23%)
 - cocaine (21%)
 - phenethyl 4-ANPP (15%)
 - tramadol (8%)

Top 5 Detected Opioids (Jan 2021 – Jan 2022)



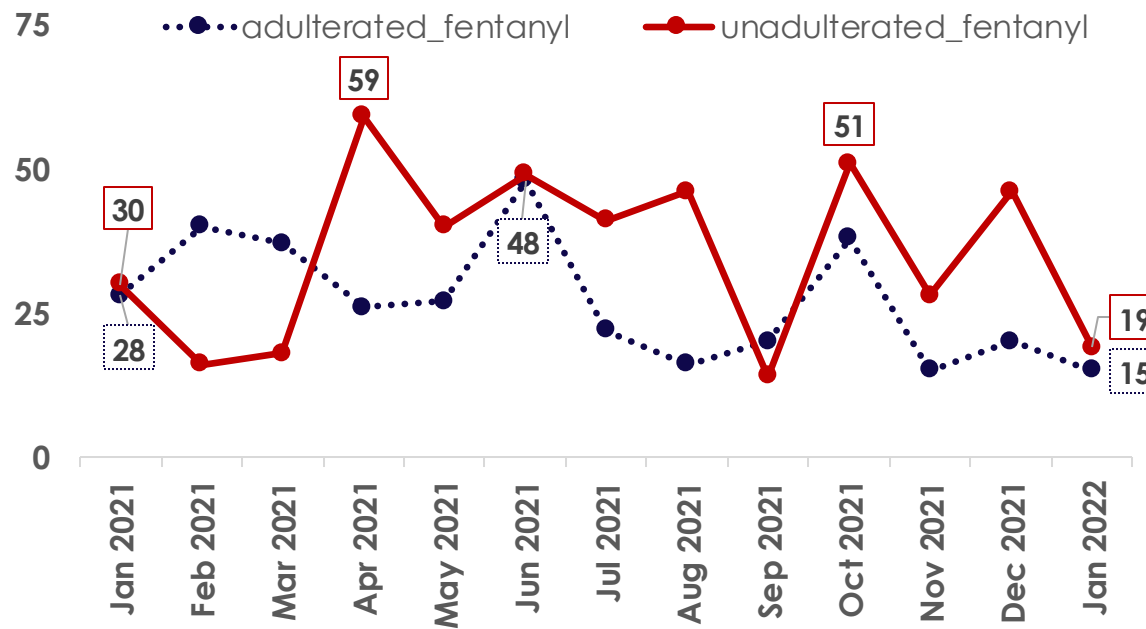
Summary

- The most common synthetic opioids were:
 - fentanyl (809 syringes)
 - heroin (398 syringes)
 - phenethyl 4-ANPP (265 syringes)
- Morphine (94 syringes) was the most common non-synthetic opioid, followed by codeine (32 syringes) and papaverine (11 syringes)

Scatter Plot of Top Opioids. Each line represents the number of syringes analyzed in each of the top 5 detected opioids over the past 13-month period.

Composition of Fentanyl Syringes (Jan 2021 – Jan 2022)

Adulterated vs Unadulterated Fentanyl Syringes
January 2021 - January 2022

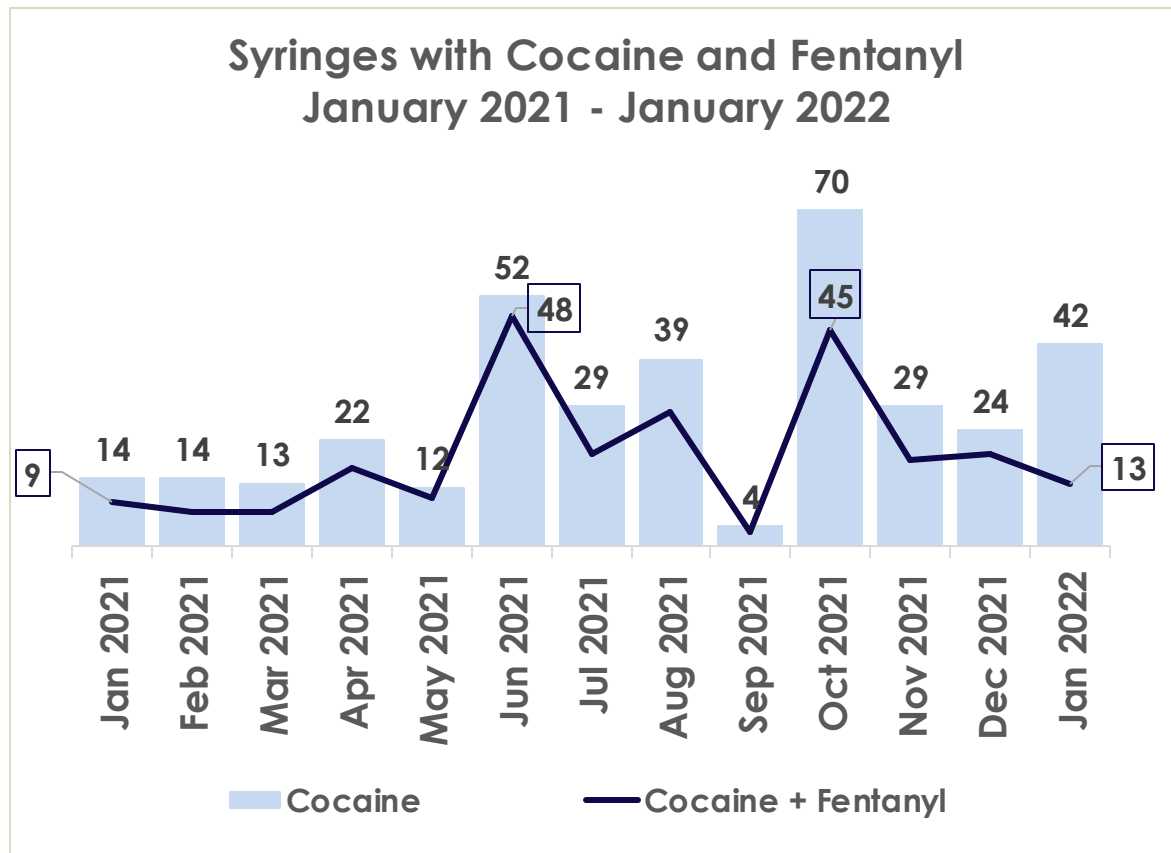


Scatter Plot of Adulterated vs. Unadulterated Fentanyl. Lines represent the number of syringes with adulterated (blue) vs unadulterated (red) fentanyl over the past 13-month period.

Summary

- From January 2021 to 2022, there were twice as many syringes with fentanyl than heroin, the second most common opioid.
- Fentanyl is frequently found in syringes containing:
 - cocaine (66% of cocaine syringes)
 - heroin (88% of heroin syringes)
 - xylazine (76% of xylazine syringes)

Composition of Cocaine Syringes (Jan 2021 – Jan 2022)

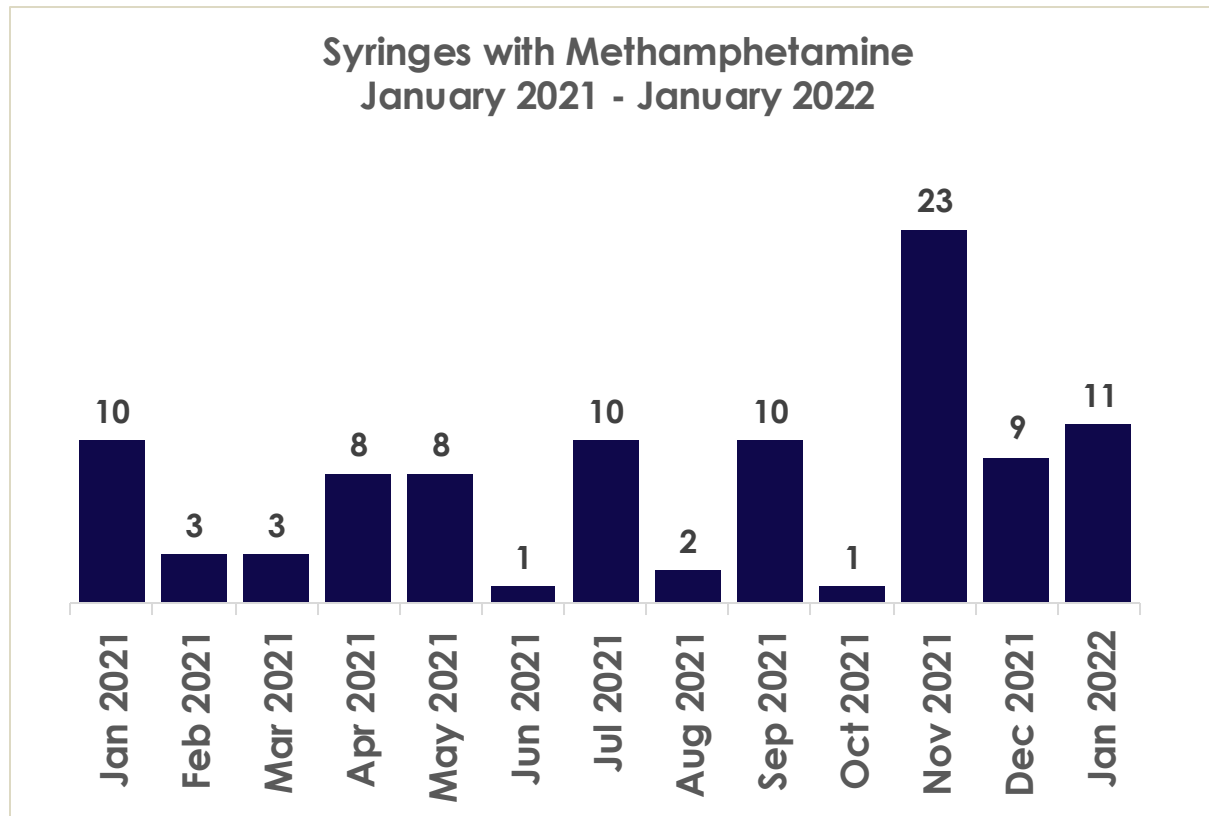


Combination Line and Bar Chart of Syringes with Cocaine and Fentanyl. Bars represent the total number of syringes analyzed with cocaine. The line represent the number of syringes with cocaine and fentanyl analyzed over the past 13-month period.

Summary

- From January 2021 to 2022, 21% syringes analyzed by FSL had cocaine.
- Eutylone was the most common controlled stimulant detected with cocaine (5% of cocaine syringes).

Composition of ATS Syringes (Jan 2021 – Jan 2022)

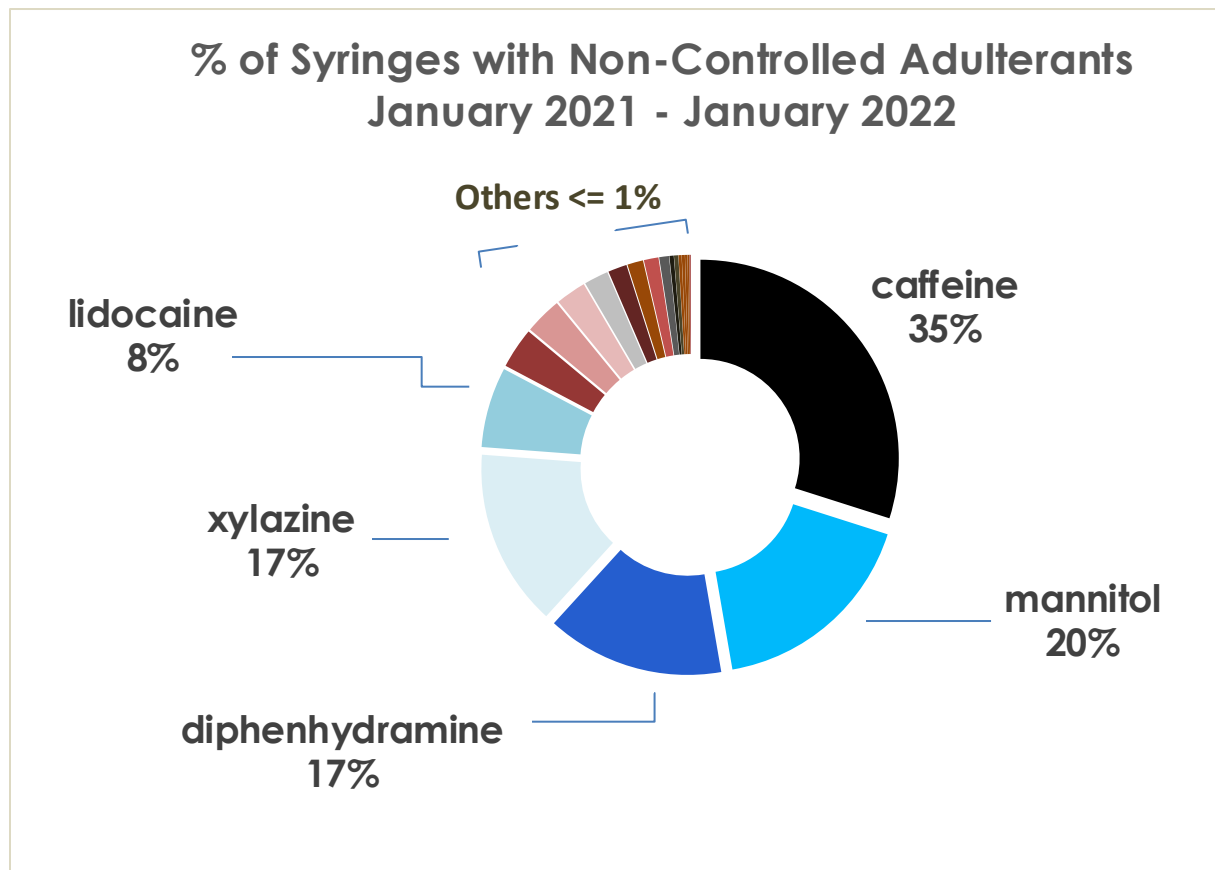


Bar Chart of Syringes with Methamphetamine. Bars represent the total number of syringes analyzed with methamphetamine over the past 13-month period.

Summary

- From January 2021 to 2022, 9% of CDS syringes analyzed by FSL had an amphetamine-type stimulant (ATS).
- The most common ATS detected were:
 - Methamphetamine (99 syringes)
 - eutylone (56 syringes)
 - n-ethylpentylone (2 syringes)
 - n-formylmethamphetamine (2 syringes)

Composition of Adulterants in Syringes (Jan 2021 – Jan 2022)



Pie Chart of Syringes with Non-Controlled Adulterants. The pie chart represents the percentage of the most common adulterants in all syringes analyzed over the past 13-month period.

Summary

- Among the major drug classes, substances detected with the highest rate of adulterants were:
 - eutylone within ATS (30% of syringes),
 - tramadol within opioids (95% of syringes)
 - cocaine (77% of syringes).
- Fentanyl was the most prevalent opioid found with xylazine (220 syringes) over the past 13-month period.