

# Environmental Services Division Update

Subregional Technical  
Advisory Committee  
April 4, 2024



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## Trucked Waste Program



## Analysis of Drugs in Laguna Treatment Plant Influent



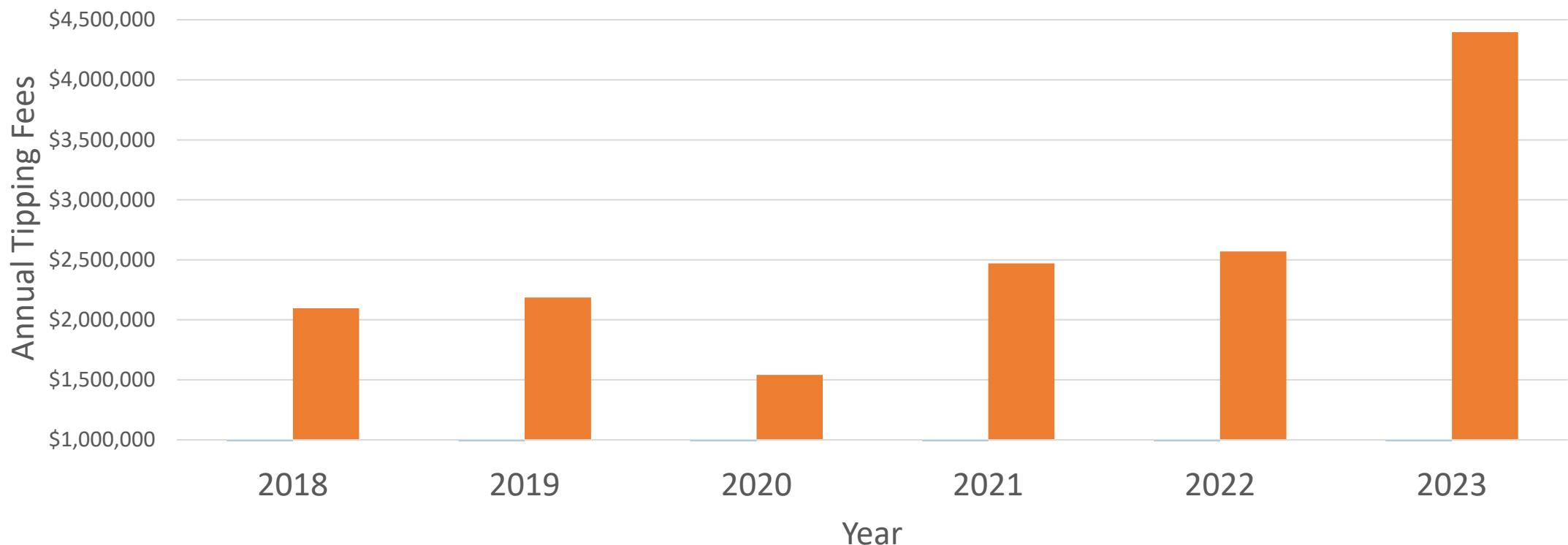
## Trucked Waste

- Increased use
- Increased sampling and oversight
- Increased tipping fees
- Increased costs to manage



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# Trucked Waste Billing



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# Trucked Waste Growing Pains

- High strength waste receiving station full most days
- Ensuring discharges do not negatively impact plant processes
  - Leachate inhibits Ultraviolet Transmittance
  - pH issue
  - Solids blocking pumps
- Increased truckloads in the plant

# Trucked Waste Studies

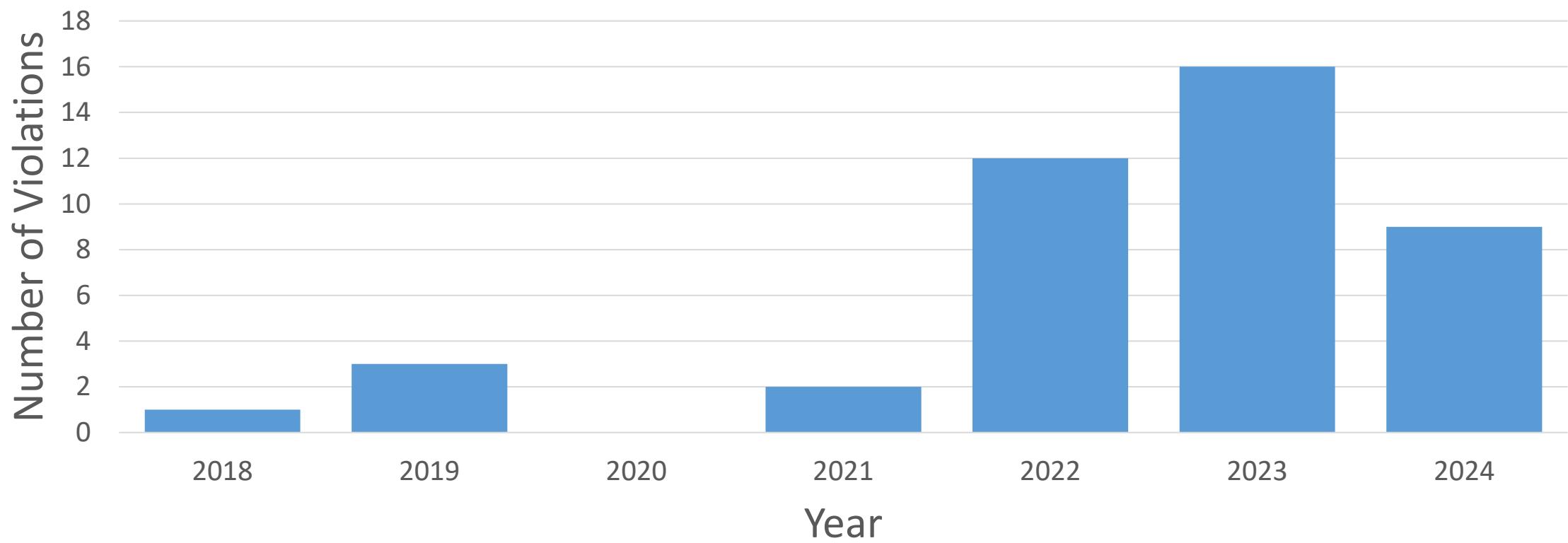
- Wine waste and wine rinsate study - Completed
- Ultraviolet Light Transmittance Blocking (UVT) – In Progress
- Plant capacity to handle waste streams (Local Limits Study) – Will start next fiscal year

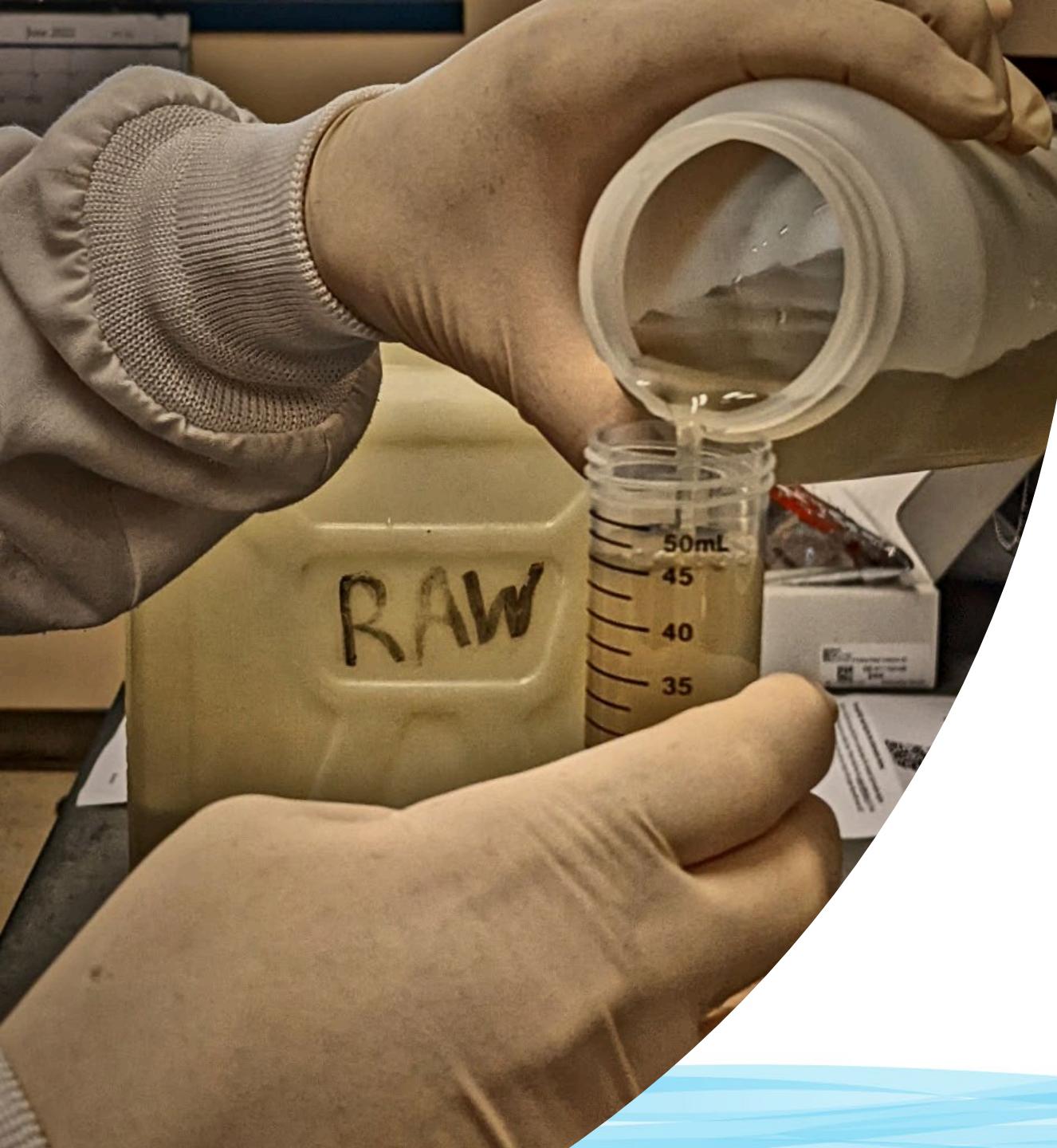
# Tipping Fee Schedule

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<b>Waste Stream</b>	<b>2022 Fees</b>	<b>2023 Fees</b>	<b>2024 Fees</b>	<b>2025 Fees</b>
Septic	\$ 130	\$ 130	\$ 130	\$ 131
Medium Strength	\$ 40	\$ 43	\$ 46	\$ 49
HSW -Receive Station	\$ 40	\$ 40	\$ 40	\$ 40
Gray Water	\$ 40	\$ 41	\$ 42	\$ 43
Leachate	\$ 17	\$ 20	\$ 23	\$ 26
Meacham Leachate	\$ 14	\$ 20	\$ 23	\$ 26
Low Strength	\$ 20	\$ 22	\$ 24	\$ 26

# Trucked Waste Violations





# Analysis of drugs in wastewater

- Trans-3'-Hydroxycotinine  
(Nicotine Metabolite)
- Fentanyl
- Cocaine
- Methamphetamine

# Need/Context of the Data

- Development of data for public health needs in disadvantaged communities.
- Data is collected from wastewater influent.
- While not specifically looking at illicit drugs, the WateReuse Research Foundation studied Pharmaceuticals and Personal Care Products (PPCPs) in recycled water and found concentrations of PPCPs much lower than acceptable levels and extremely low for effective dosage.



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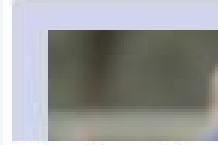
# WHAT'S THE RISK?

## A Comparison of Exposure to PPCPs from Recycled Water vs. Conventional Uses

This chart compares typical exposures to three Pharmaceuticals and Personal Care Products (PPCPs) — antidepressant, ibuprofen, hormone — with exposure to the same chemicals in recycled water under four different scenarios in which a person may come into contact with the water. For each scenario — child at play, agricultural worker, landscaper, and golfer — the chart shows how many years one could participate in that activity before reaching a single daily dose of the chemical from typical exposures.



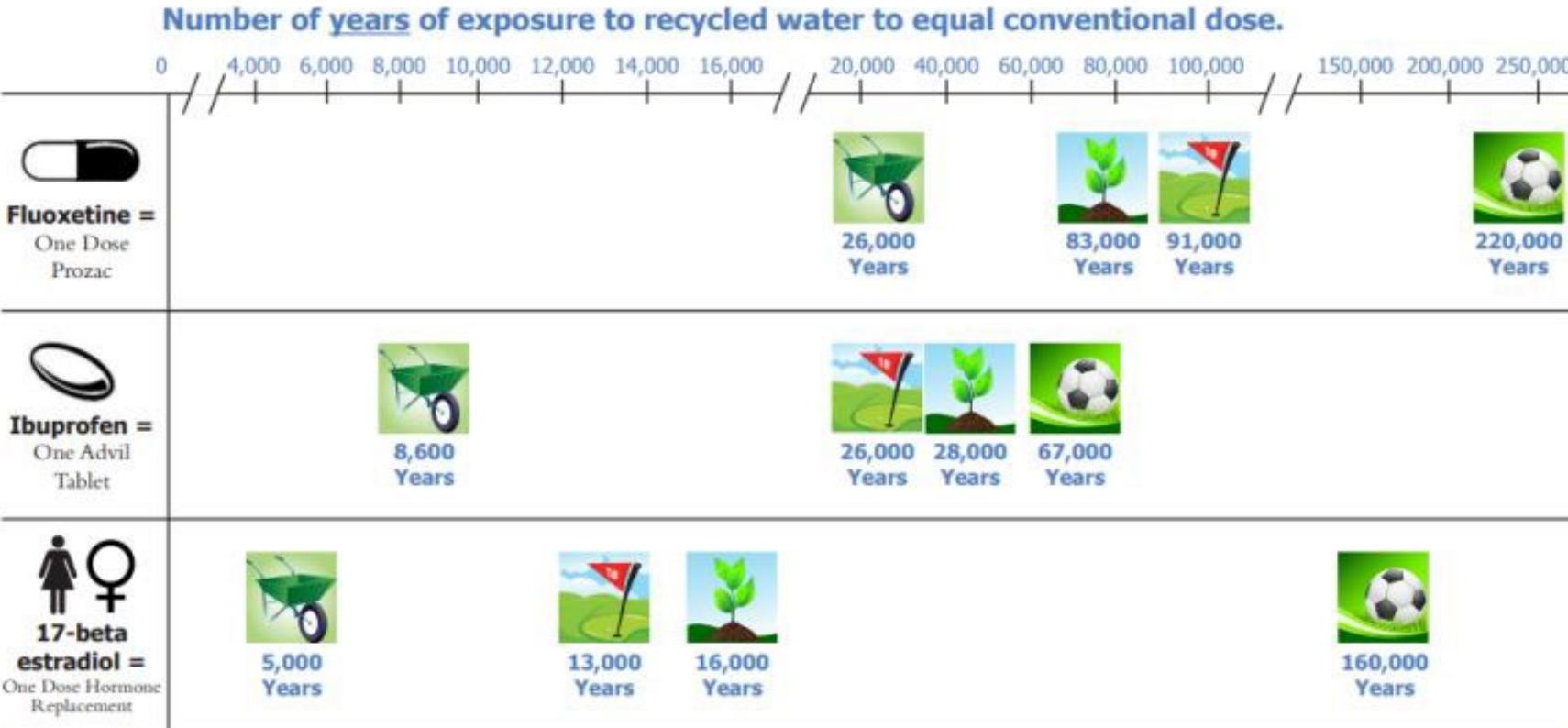
### Exposure



**Acetaminophen**



**Caffeine**



KEY: Four common scenarios where people may come into contact with recycled water.



**Child at Play**



**Ag Worker**



**Landscaper**



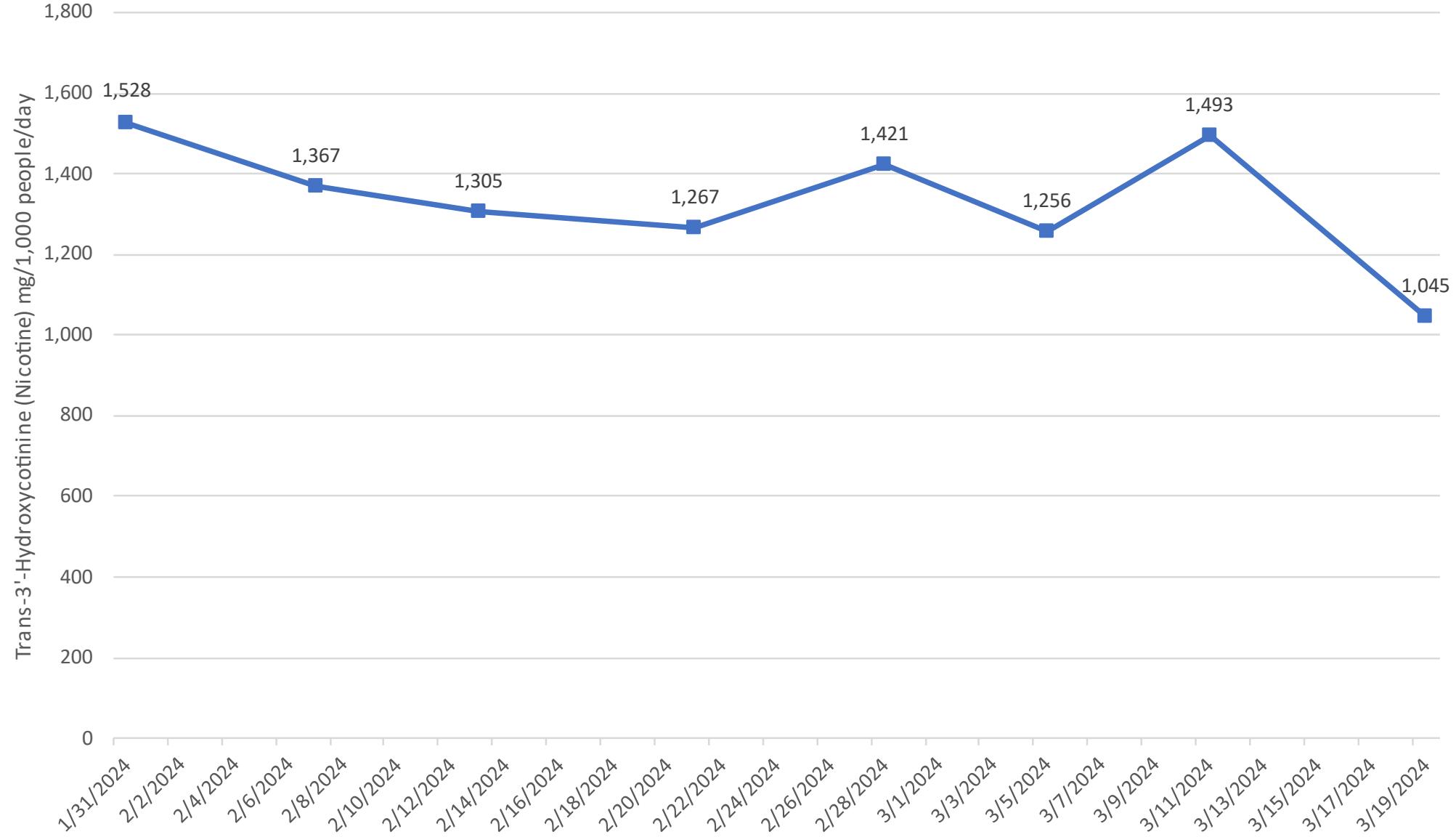
**Golfer**

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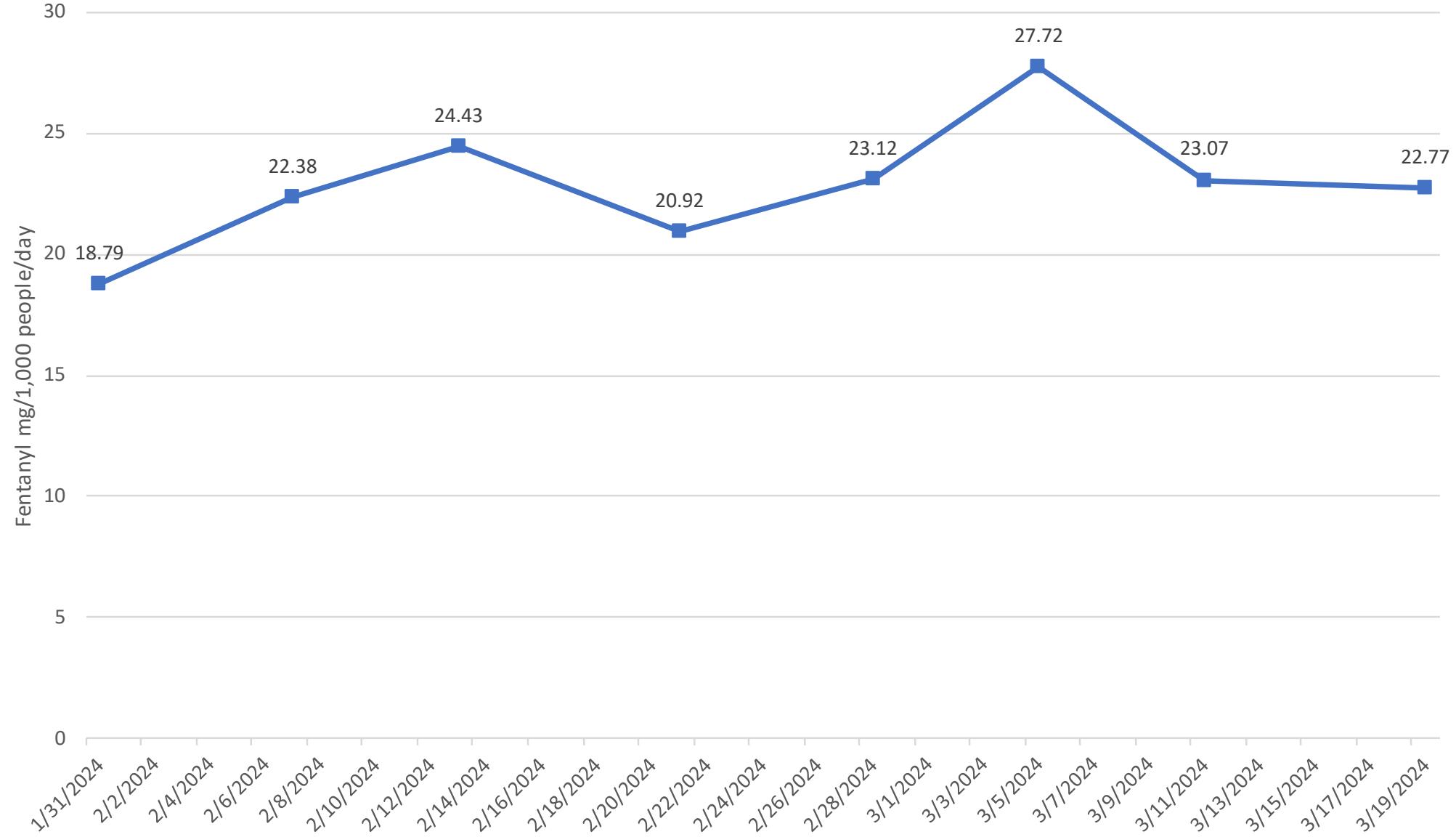
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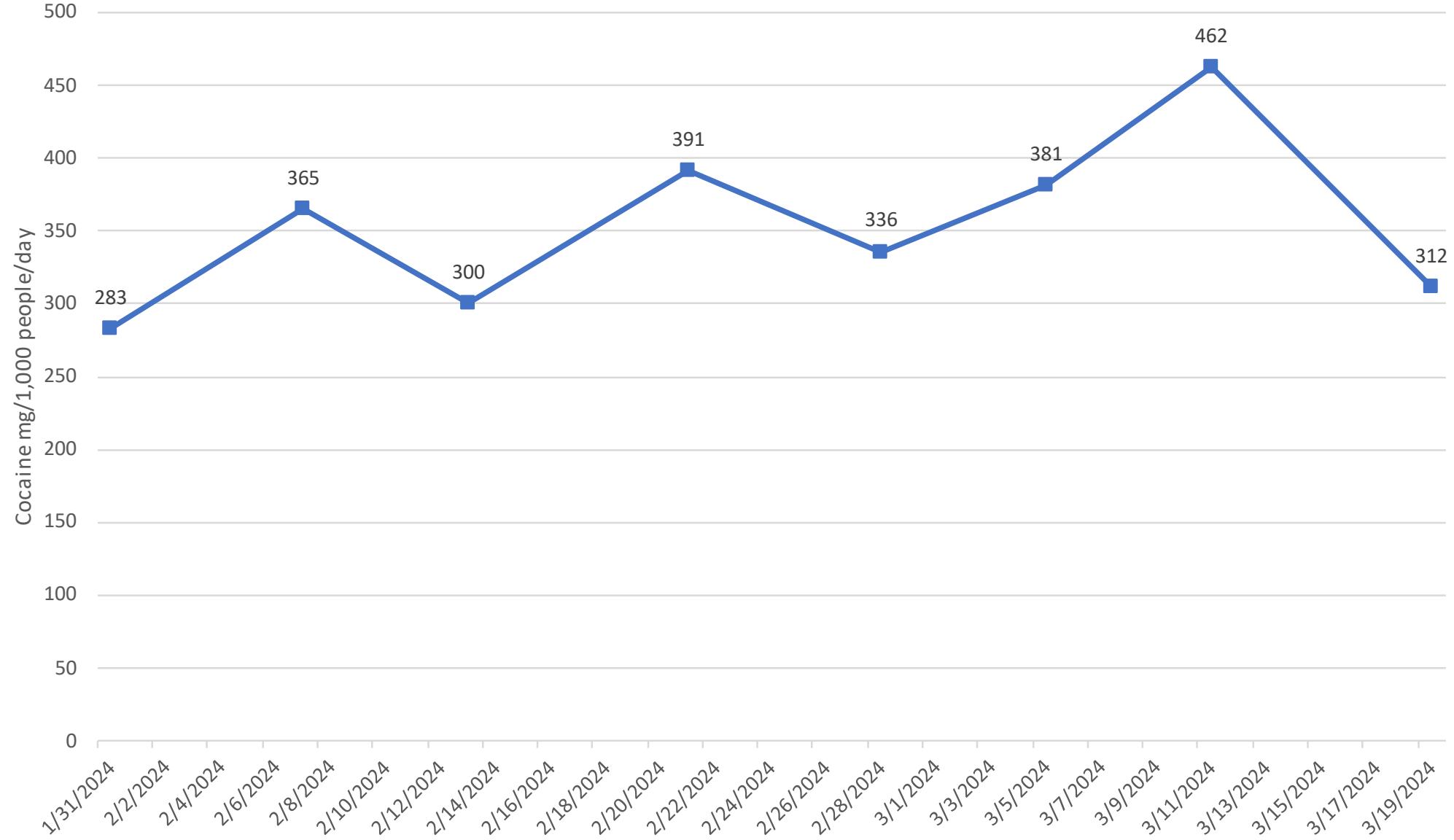
## Trans-3'-Hydroxycotinine (Nicotine) Consumption Estimate



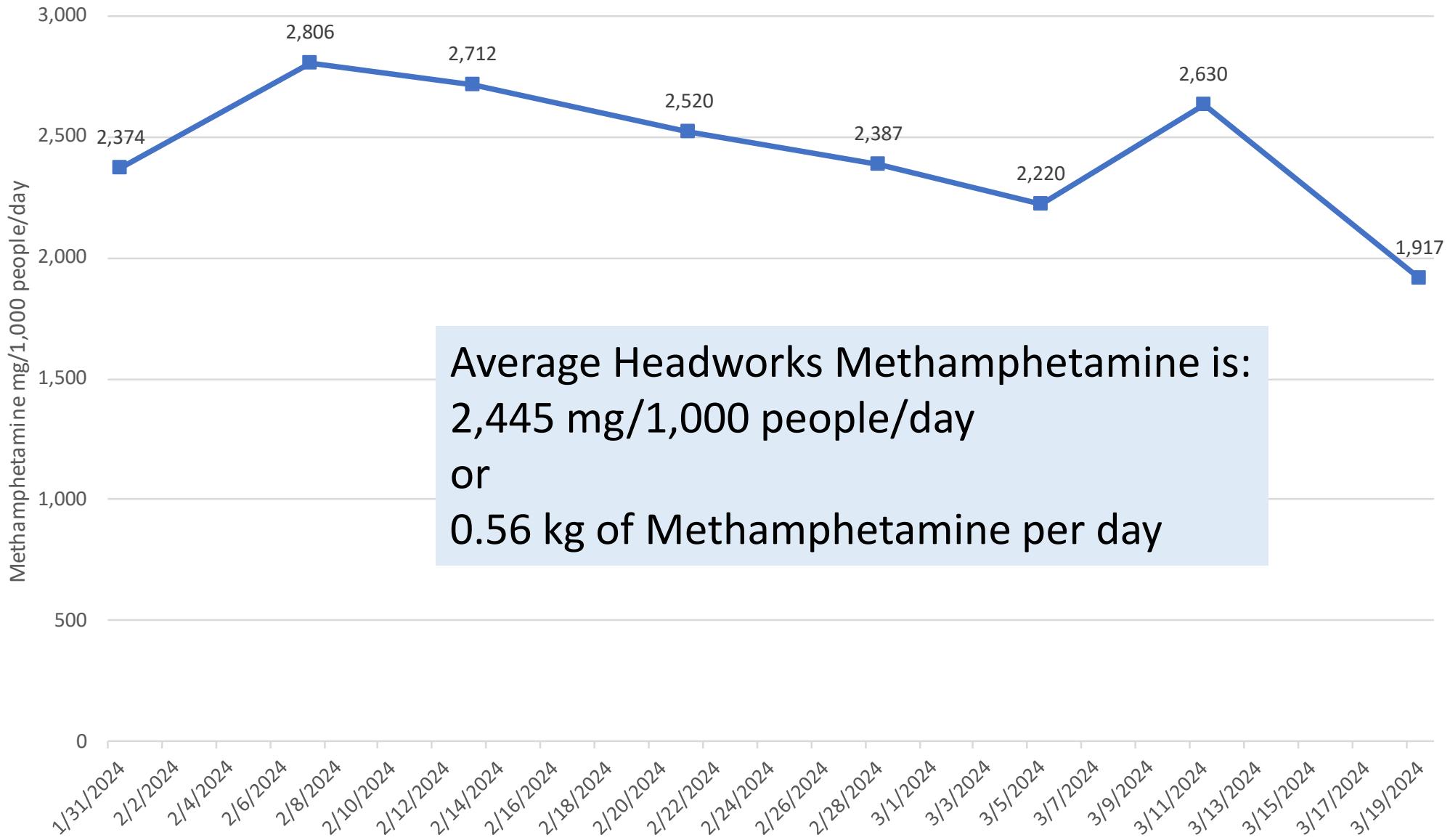
## Fentanyl Consumption Estimate



## Cocaine Consumption Estimate



## Methamphetamine Consumption Estimate



# Questions



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