

City & County of San Francisco  
London N. Breed, Mayor



Office of the City Administrator  
Carmen Chu, City Administrator  
David Serrano Sewell, Executive Director  
Office of the Chief Medical Examiner

March 31, 2023

**Subject: Report on Drug and Alcohol Prevalence in Impaired Driving Casework – 2021**

The enclosed report includes drug and alcohol prevalence data on received Driving Under the Influence of Drugs and/or Alcohol (DUID) casework in the City and County of San Francisco from July 1, 2021, to December 31, 2021. The reports are published by the Office of the Chief Medical Examiner (OCME), Forensic Laboratory Division, to further the OCME's mission to provide neutral data to inform policymakers.

As of July 1, 2021, all DUID testing has been performed by the OCME.

Pertinent for the accurate use of this report is understanding the scope of testing leading to the summarization of the data. The OCME performs [full and comprehensive testing](#) on all DUID casework to mitigate bias, ensure a complete toxicological profile is provided for each case, and to determine the extent of alcohol and drugs exposure within the community. The OCME scope of testing for DUID casework meets and exceeds the national scope and sensitivity standards ([ASB Standard 120](#)) and recommendations ([NSC-ADID Recommendations](#)).

Enclosed is a detailed DUID Data Report for 2021. Key findings were:

- One or more intoxicating substance was identified in 99.5% of cases.
- The OCME identified the presence of alcohol in 81.1%, cannabis in 41%, and drugs in 45% of cases.
- Polysubstance use was the most common result of DUID casework with 53.5% of cases positive for any combination of alcohol, cannabis, and/or drugs (e.g., positive for cannabis and alcohol, positive for cannabis and drugs, positive for alcohol, cannabis, and drugs, etc.).

Sincerely,

A handwritten signature in blue ink, appearing to read "Luke N. Rodda".

Luke N. Rodda, Ph.D. MRACI CChem  
Chief Forensic Toxicologist and Director, Forensic Laboratory Division

cc: Office of the City Administrator  
enclosures: Driving Under the Influence of Drugs and/or Alcohol (DUID) Data Report – 2021

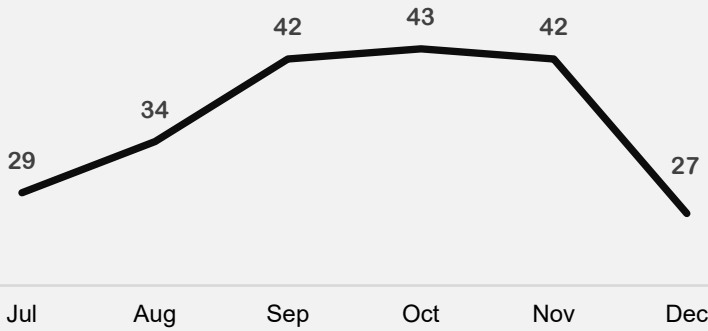


# Driving Under the Influence of Drugs and/or Alcohol (DUID)

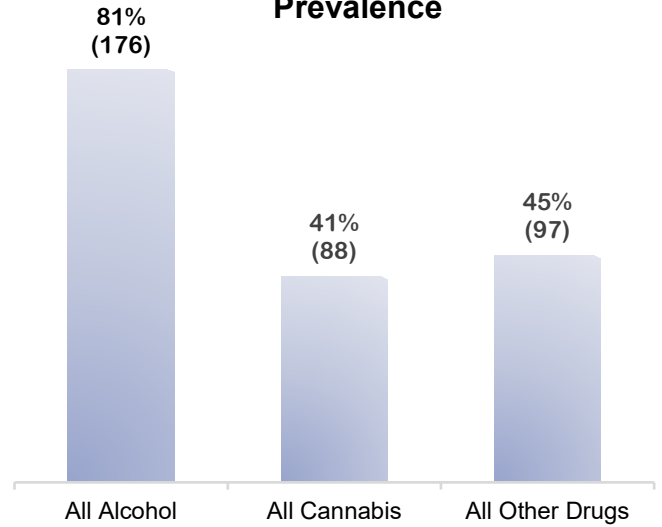
Jul – Dec 2021

217 Submitted Cases

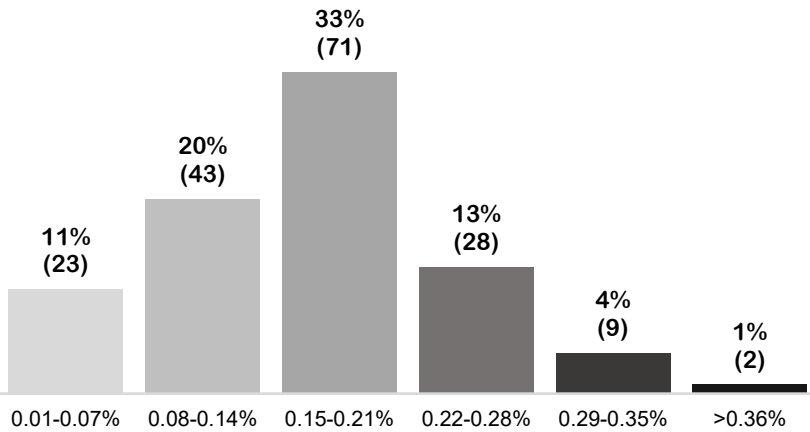
Case Submission by Month



Alcohol, Cannabis and Drugs Prevalence



Positive Blood Alcohol Concentrations

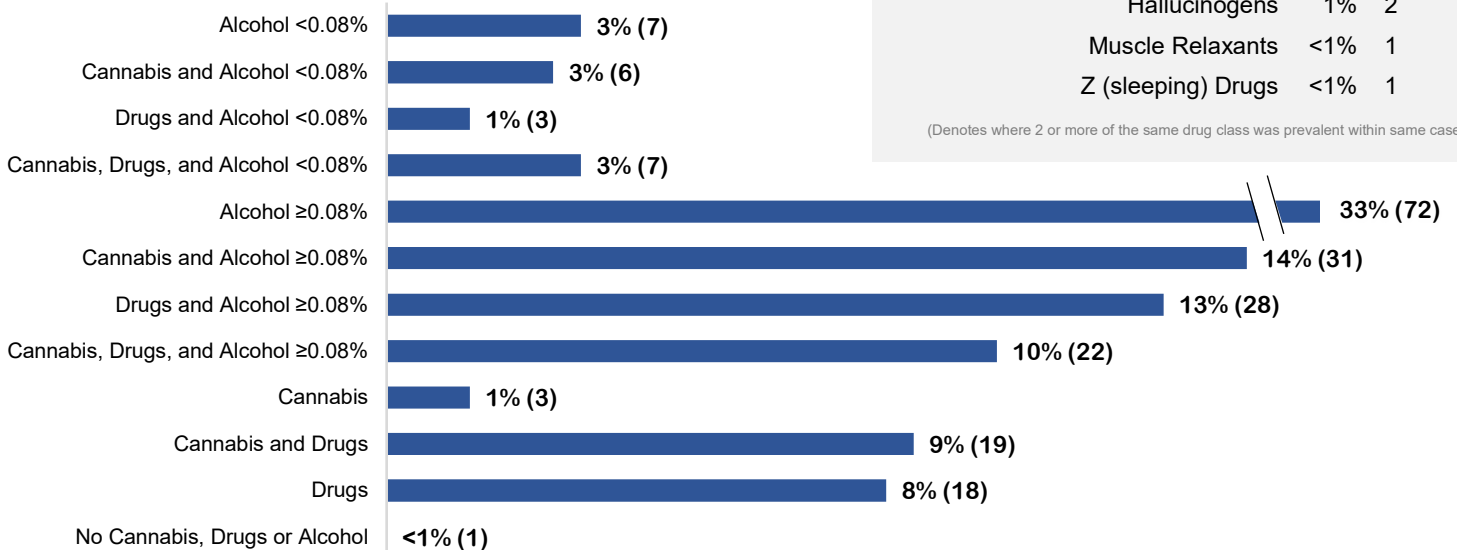


Drug Class Prevalence

Drug Class	Prevalence (%)	Cases
Cannabis	41%	88
Amphetamines	18%	37 (1)
Benzodiazepines	15%	27 (6)
Opioids	14%	21 (10)
Cocaine	11%	24
Antihistamines	8%	17 (1)
Anticonvulsants	6%	12
Anesthetics	3%	7
Dissociatives	5%	10
Barbiturates	1%	2
Hallucinogens	1%	2
Muscle Relaxants	<1%	1
Z (sleeping) Drugs	<1%	1

(Denotes where 2 or more of the same drug class was prevalent within same case)

Polysubstance Use





# Driving Under the Influence of Drugs and/or Alcohol (DUID)

Jul – Dec 2021

217 Submitted Cases

Drug Prevalence		Cases		Drug Prevalence		Cases	
<b>Amphetamines</b>				<b>Cocaine</b>			
	Methamphetamine	16%	34		Benzoylcegonine	11%	24
	Amphetamine	12%	25		Cocaine	10%	21
	Norephedrine/Norpseudoephedrine	2%	4		Cocaethylene	7%	15
	MDMA (ecstasy)	1%	3	<b>Dissociatives</b>			
	MDA	1%	3		Norketamine	3%	6
<b>Anesthetics</b>					Ketamine	2%	4
	Lidocaine	3%	7		gamma-Hydroxybutyric Acid (GHB)	1%	2
<b>Anticonvulsants</b>					Phencyclidine (PCP)	1%	2
	Gabapentin	4%	9	<b>Hallucinogens</b>			
	Lamotrigine	1%	3		Psilocin	1%	2
<b>Antihistamines</b>					Psilocybin	<1%	1
	Diphenhydramine	6%	13	<b>Muscle Relaxants</b>			
	Doxylamine	1%	2		Carisoprodol	<1%	1
	Hydroxyzine	1%	2	<b>Opioids</b>			
	Promethazine	1%	2		Fentanyl	9%	19
<b>Barbiturates</b>					Morphine	4%	8
	Phenobarbital	1%	2		Dextropropion/Levorphanol	2%	5
<b>Benzodiazepines</b>					Dextromethorphan/Levomethorphan	2%	4
	Alprazolam	4%	9		Naloxone	2%	4
	Midazolam	4%	9		Heroin	1%	3
	Nordiazepam	4%	8		Codeine	1%	3
	Flualprazolam	3%	7		Hydrocodone	1%	2
	Diazepam	2%	4		Acetyl Fentanyl	<1%	1
	Temazepam	2%	4		Buprenorphine	<1%	1
	Clonazepam	1%	3		Methadone	<1%	1
	7-Amino Clonazepam	1%	3		Oxycodone	<1%	1
	Etizolam	1%	2		Noroxycodone	<1%	1
	Flubromazepam	1%	2	<b>Volatiles</b>			
	Lorazepam	1%	2		Ethanol	81%	176
<b>Cannabis</b>				<b>Z (sleeping) Drugs</b>			
	Carboxy THC	42%	91		Zolpidem	<1%	1
	delta-9 Carboxy THC		59				
	delta-8 Carboxy THC		1				
	delta-8 and delta-9 Carboxy THC		2				
	unspecified Carboxy THC		29				
	Tetrahydrocannabinol (THC)	35%	76				
	delta-9 THC		74				
	delta-8 and delta-9 THC		1				
	unspecified THC		1				
	Tetrahydrocannabivarinic Acid (THCVA)	11%	23				
	Tetrahydrocannabinol Acid (THCA)	7%	15				
	Cannabidiol (CBD)	<1%	1				