

2024 Annual Transportation Safety Meeting Helena, Montana October 16, 2024

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STOP TESTING LIMITS IN DUI CASES: 0.10 G/DL TO 0.16 G/DL

Stop testing limit:

• If a DUI case has a certain amount of ethanol, no drug testing will be performed.

MT participated in a study run by the Center for Forensic Science Research and Education (CFSRE):

• 'Results showed that in MT cases over 0.10 g/dL, 48% of cases were positive for drugs.'*

*Grace Cieri, CFSRE

Montana increased the stop testing limit January 1, 2024:

• 0.10 g/dL or less TO any case less than 0.16 g/dL (aggravated DUI charge)

TRENDS:

POLYDRUG INCREASE

- 11 1/			
<u>Full Year</u>	Ethanol Only	<u>Drugs Only</u>	<u>Ethanol + Drugs</u>
2019	67 %	19%	8 %
2020	66%	11%	9 %
2021	62 %	24%	9 %
2022	63%	23%	10%
2023	60%	25%	10%
*2024 Q1	*45%	*25%	*23%
2024 Q1	4 J/0	23/6	25/6

Stats from Q1 are consistent with the independent research study: more of our DUI cases involve drugs other than alcohol than previously reported.

*New stop testing policy implemented in January 2024 (0.16 g/dL)

POLYDRUG CASES

	ALL DUI CASES WHERE		AVE # DRUGS
YEAR	DRUGS IDENTIFIED	IDENTIFIED IN ALL DUI CASES	PER CASE
2018	911	2877	3.16
2019	814	2589	3.18
2020	942	3270	3.47
2021	1219	4273	3.50
2022	1396	4358	3.12
2023	1128	4184	3.71
*2024 (AUG)	*1198	*4743	*3.96

^{*}New stop testing policy implemented in January 2024 (0.16 g/dL)

YEAR CHANGE	YEAR	TOTAL CASES	MEAN CONCENTRATION NG/ML	RANGE CONCENTRATION NG/ML	MOST PREVALENT COUNTY
1%	2023	593	8.68	1-87	GALLATIN
-5%	2022	587	10.03	1-144	YELLOWSTONE
17%	2021	621	10.11	1-172	YELLOWSTONE
14%	2020	530	9.99	1-197	YELLOWSTONE
	2019	464	9.35	1-75	GALLATIN

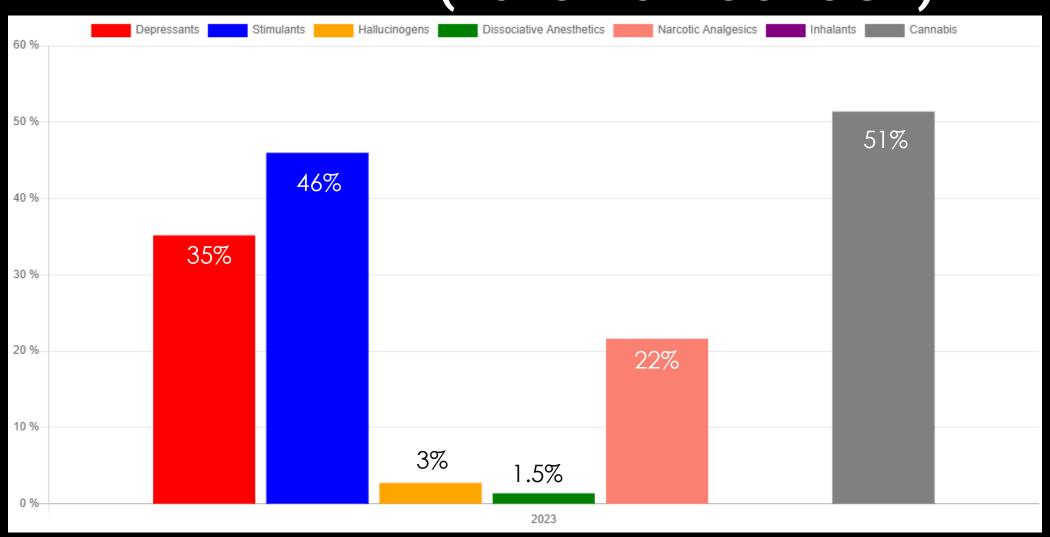
In 2023 54% of positive cases were above 5 ng/mL (per se limit in MT for THC).

<u>TRENDS</u>

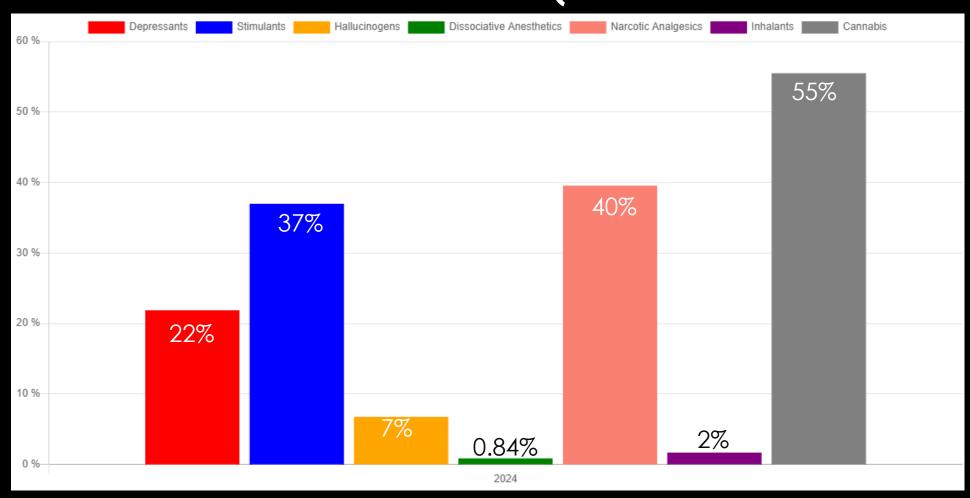
- ☐ Fentanyl and xylazine
- □Gabapentin
- ☐ Mitragynine (Kratom)
- □Delta-8 THC
- □ Cocaine and metabolites



EVALUATIONS BY DRUG CATEGORY (2023 TOXICOLOGY)



EVALUATIONS BY DRUG CATEGORY (2024 TOXICOLOGY)



FENTANYL

- Continued Increase in Montana
- Most pills are cut with another drug
 - Methamphetamine
 - Xylazine
- Using 1 pill would be considered poly drug use



CANNABIS

- Continues to be a popular mixer with other drugs
- More THC variants continue to be identified
- Some variants are significantly stronger than Delta 9 THC
- Products infused with THC continue to increase as well



CANNABINOIDS GUIDE!

$\Delta 6$ THC

- AKA: Delta 6a10a THC, D6a, Delta-3 THC
- Best type of high for people with lower tolerance.

Δ**11** THC

- Psychoactive high similar to D9
- Hydroxy-11 is different, but may be used to denote D11

THC-V

- Sometimes called "diet weed," "weederall" for its purported appetite-curbing and energyboosting properties.
- Best used in combination with other THC compounds.

THCPO

 Similar effects of THC-O & THC-P mixed together

Δ8 THC

- THC with less anxiety or paranoia.
- Lack of affinity for CB1, so a less heavy head-high, fogginess, or anxiety.
- All health effects as "traditional" D9 THC.

THC-A

 When smoked, it converts to regular THC. Otherwise, it does not bind with CB1 receptors

THC-B

- Similar high to Delta 8 & Delta 9.
- Binds well to CB1 & CB2 receptors

THC-X

- Blend of well-known cannabinoids.
- Blend of D8, D10, THC-P, and THC-B.

PHC

- CBD that has psychoactive effects.
- Mild version of D8 THC.
- Still fail drug test.

Δ9 THC

- Same effects as the chemical found in marijuana.
- Same as a marijuana edible.

THC-O

- Made by adding acetate to D8 or D9. Does cross the "bloodbrain" barrier!
- Very strong affinity for CB1 receptors in serotonin area of brain to produce psychedelic like effects.

THCJD

- Heavy indica with chill sensation outside and inside.
- Tolerance from other cannabinoids doesn't carry over!

Δ**10** THC

Stronger affinity for CB1
 receptors – which controls
 neural pathways in the brain,
 so it amplifies that and gives
 that sativa effect.

THC-P

- 30x+ more times more potent in binding to CB1 than D9 THC, creating a more intense and intoxicating euphoric high.
- Can have paranoia and anxiety, red-eye and other D9 effects.

THCH

- Strong euphoria
- Powerful body high (chilled, happy, relaxed, relief)
- · Longer high than many others

THE GREEN DRAGONCBD



























POLYSUBSTANCE USE FROM DRE PERSPECTIVE

2022 DRE Evals

 38% of evaluations involved polysubstance use confirmed by toxicology

2023 DRE Evals

- 22% of evaluations involved polysubstance use confirmed by toxicology
- 32% of DRE opinions involved polydrug use
- 139 Evaluations

2024 DRE Evals

- 22% of evaluations involved polysubstance use confirmed by toxicology
- 25% of DRE opinions involved polydrug use
- Date from January 1, 2023 September 26, 2024 (263 Evaluations)