

Chaos: No Standard Testing Rules, Product Recalls, and Lab Shopping/Hemp Loophole

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Learning Objectives

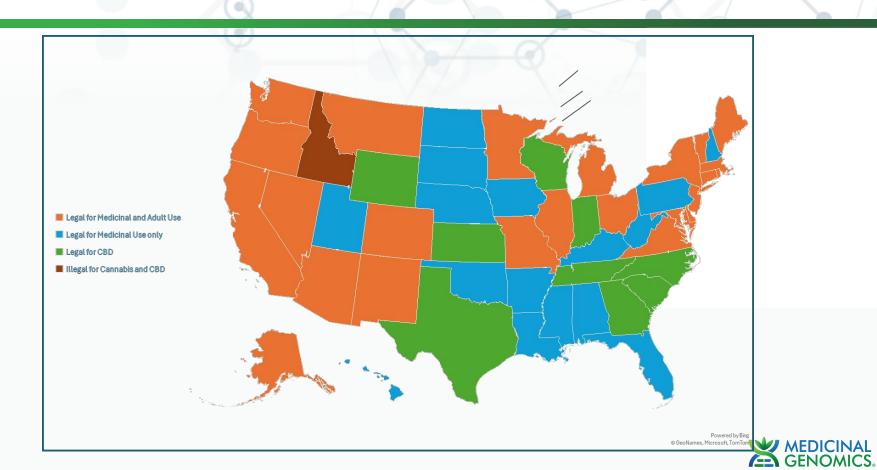
Product recall information availability & quality varied

Reasons for product recalls were numerous

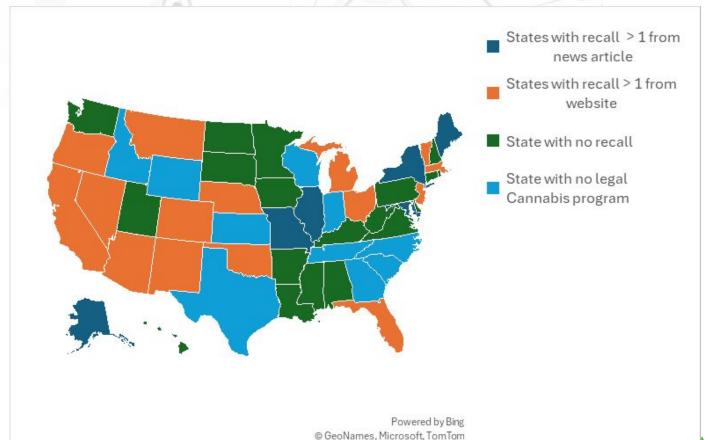
Many specific contaminants caused product recalls



Cannabis Testing Regulations by State



State Cannabis Recalls





FDA Product Recalls

What is the purpose of FDA food and pharmaceutical product recalls?

Safeguard public health
 by addressing contamination or product mislabeling
 to ensure consumer safety and drug efficacy



FDA Food & Pharmaceutical Recalls

Date	Brand Name	Product Description	Product Type	Recall Reason Description
3/8/ 24	Trader Joe's	50% Less Salt Roasted & Salted Whole Cashews	Food & Beverages	Salmonella spp.
2/26/ 24	Multiple brands	Eye ointment products	<u>Drug</u>	Potential Lack of Sterility Assurance
4/1/ 24	AVpak	Atovaquone Oral Suspension, USP 750 mg/5mL	<u>Drug</u>	Potential Bacillus cereus contamination

MEDICINAL

Methods

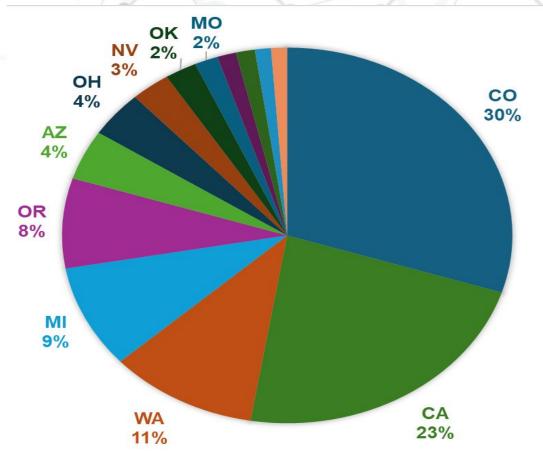
- Reviewed each public recall document
- Inputted relevant information
 - Product type
 - Reason for the recall
 - Specific contaminant(s)
- Performed analyses



363 Product Recalls (to 3/2025)

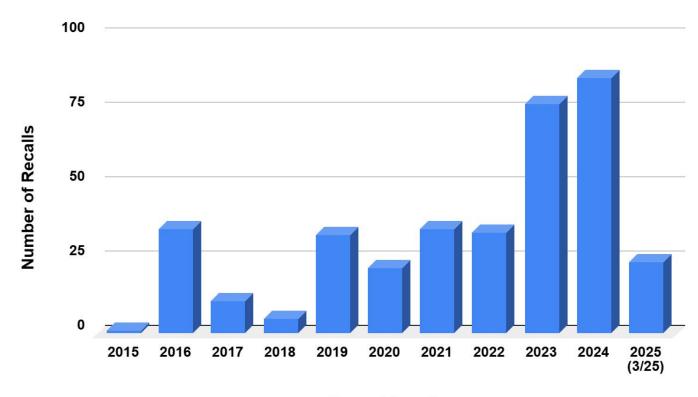
 CO had the highest number of recalls, followed by CA, WA, & MI.

>80% of the 2024 recalls were in 5 states - CO, CA, WA, MI, OR





Recall Number by Year (03/14/25)





Recall Quality

The Good - Colorado - Sample type(s) & specific contaminants

- Flower, trim, concentrate, infused-products
 Pesticide contamination Myclobutanil (fungicide) (steroid demethylation inhibitor; ignition produces cyanide)
- Flower, shake, & trim Microbial contamination - pathogenic Aspergillus specie (aspergillosis)
- Flower, shake, & trim
 Metal contamination Mercury
 (control persons)



Recall Quality

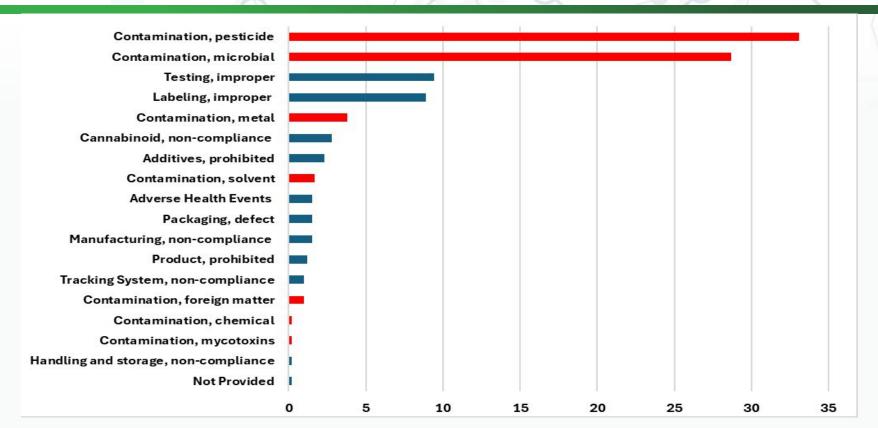
The Bad & Ugly - Specific contaminant name was not provided

WA - Pesticide names were not provided

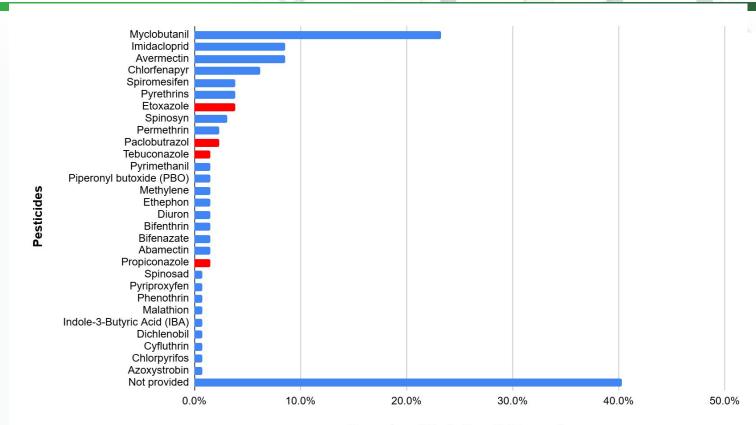
MI - Contaminants that exceeded action levels were not identified



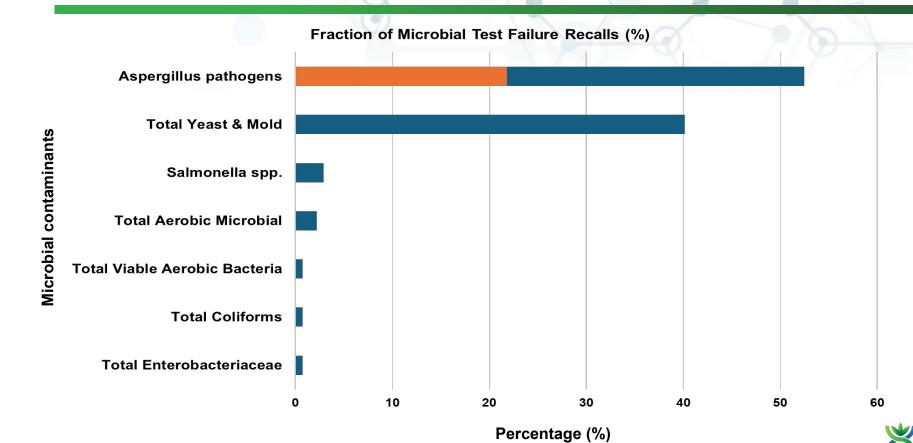
17 Reasons for Product Recalls - Top 2: ~62%



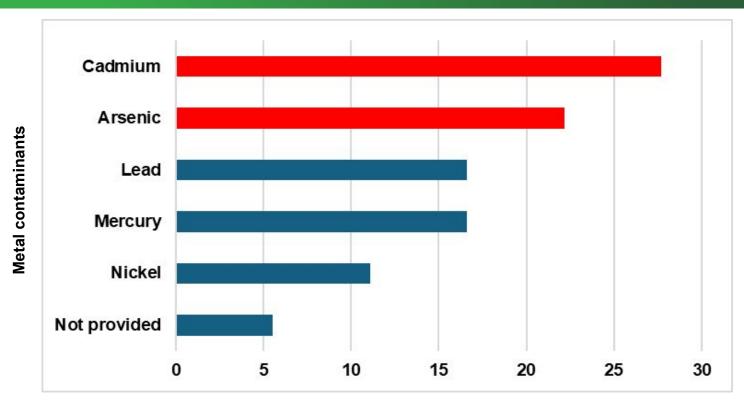
Pesticide Contamination Recalls

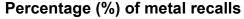


Microbial Contamination Recalls - 112



Metal Contamination Recalls - 15 (4.1% of total recalls)







Solvent and Mycotoxin Contamination Recalls - 8 (2.2% of total recalls)

Residual solvents	Methylene Chloride (3) Medium Chain triglyceride oil (2) Ethanol (1) Not provided (1)	
Mycotoxins	Not provided (1)	



Future Directions

- FOIA requests to get recall information from remaining states
- Update dataset and repeat comparative analyses
- Advocate for standard information for all recalls
- AND for recall transparency in all states



Summary

Contaminants may pose a health risk to consumers

Pesticide residues on cannabis products - 39% of total recalls

Microbial test failures - 29% of total recalls



Acknowledgements

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- ³Analyses
- ⁴Results visualization
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