



CVCWA
CENTRAL VALLEY CLEAN WATER ASSOCIATION

2025 ANNUAL CONFERENCE

September 25, 2025



We Don't Know ... What We Don't Know!

BIOSOLIDS,
ORGANIC RESIDUALS,
LAND APPLICATION
UPDATES



CVCWA
CENTRAL VALLEY CLEAN WATER ASSOCIATION

Presented By:

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Business Development Manager
LYSTEK INTERNATIONAL

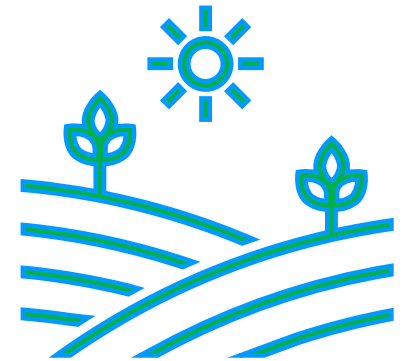
Jim's career has been dedicated to managing, treating, and recovering waste byproducts in North America and Europe.

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Waste is a Resource in the Wrong Place!



We Are HERE !!

EPA Region IX
(CA, NV, AZ)

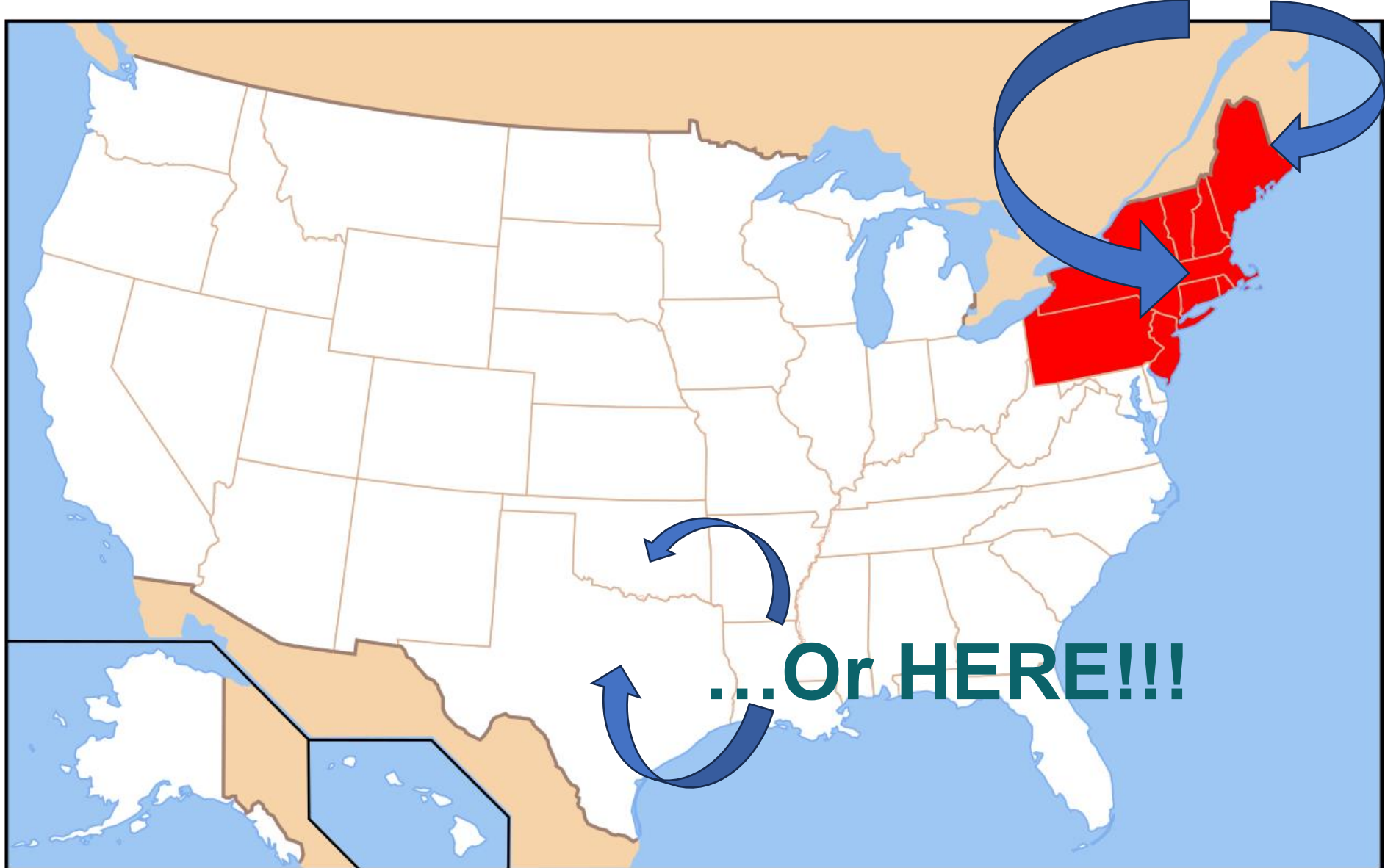
Main Office in
San Francisco

Field Office in
Los Angeles

Also San Diego & Hawaii



We Are NOT Here!!

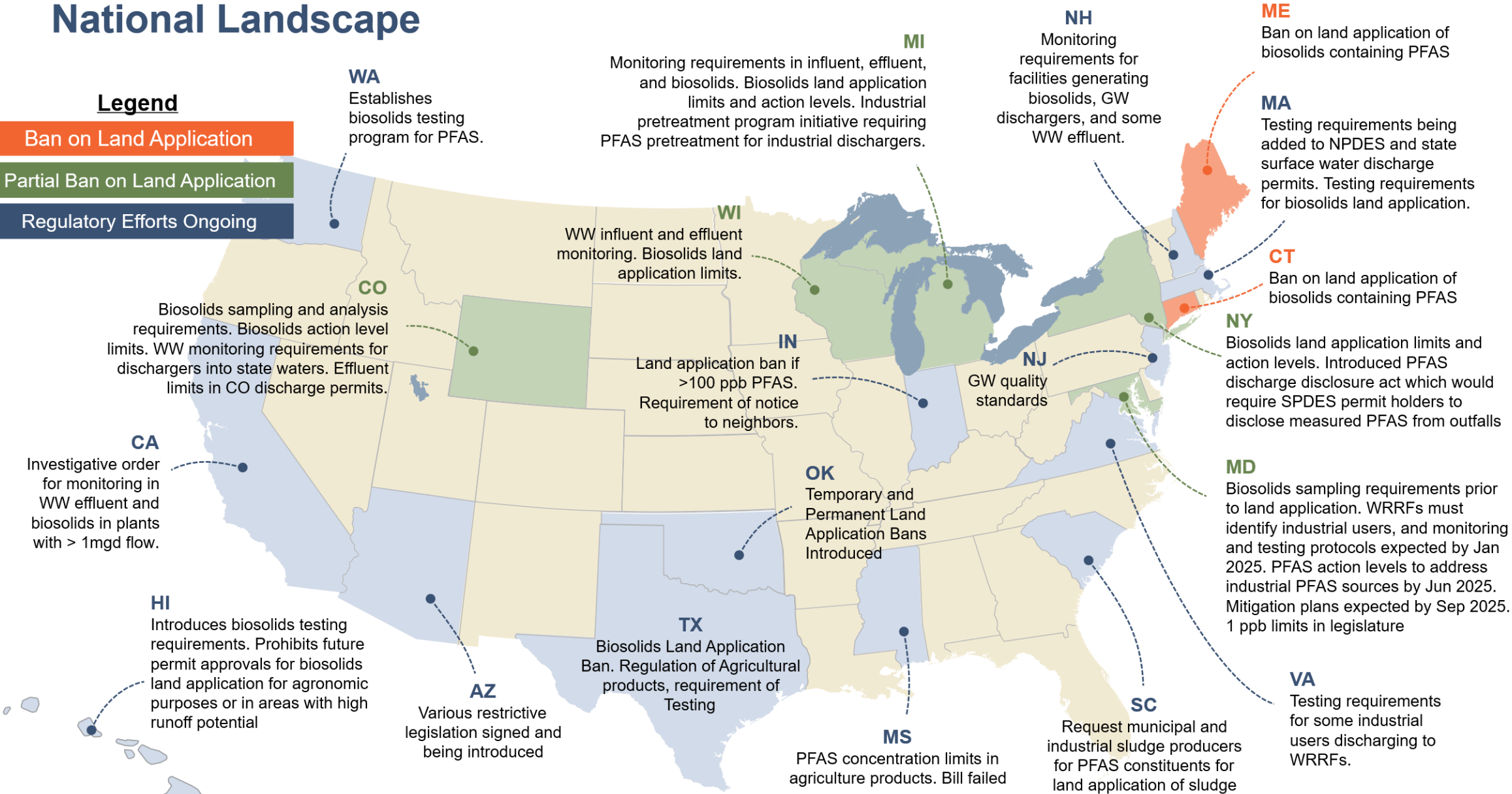


...Or HERE!!!

National Landscape

Legend

- Ban on Land Application
- Partial Ban on Land Application
- Regulatory Efforts Ongoing



STATE LEGISLATIVE UPDATES

Biosolids PFAS legislation in 2025 that were ***successfully defeated or amended***:

- Arizona (HB 2646) – Ban on land application effective 12/31/26
- Hawaii (SB 738) – Ban on land application amended to convening a working group to investigate PFAS
- Illinois (HB 2955) – PFAS Wastewater Citizen Protection Act
- Indiana (HB 1553) – Ban on land application with total Method 1633 PFAS > 100 ppb
- Maryland (SB 0732) – Ban on land application of biosolids with > 1 ppb of PFOA or PFOS
- Mississippi (SB 2004) – Ban on land application effective 9/1/2025
- New York (S 5759A) – Five-year moratorium on land application
- Oklahoma (SB 3) – Ban on land application effective 7/1/2027
- Oregon (HB 2947) – PFAS study bill (Passed)
- Tennessee (HB 1122) – Grundy County ban on land application
- Texas (HB 1674) – Effective ban on land application due to the low concentrations from several PFAS
- Washington (SB 5033) – PFAS testing and analysis effective 7/27/25 (Passed)
- Wisconsin – (SB 45) - Budget bill amended to include PFAS testing (Passed)

Regulatory Update

- **Interim Limits**

- **Colorado**
- **Maryland**
- **Michigan**
- **Minnesota**
- **New Hampshire**
- **New York**
- **Wisconsin**

- **Example of Tiered PFAS Concentration Limits**

PFOA (ppb)	PFOS (ppb)	Notes
≥100	≥100	No land application
≥20 –100	≥20-100	Reduce application rate to 1.5 dry tons/acre, farmer/landowner notification
<20	<20	Farmer/Landowner provided analytical results
< 20		EQ if sum of PFOA and PFOS is <20

Federal Legislative Update

- **House of Representatives Legislative Initiatives**
 - **Water Systems PFAS Liability Protection Act H.R. 1267**
 - **Bipartisan Sponsorship:**
 - ❖ **Rep. Marie Perez (D-WA)**
 - ❖ **Rep. Celeste Maloy (R-UT)**
 - ❖ **Addresses liability concerns:**
 - ✓ **USEPA stated it will work to establish “a clear liability framework that ensures the polluter pays and passive receivers are protected.”**
- **Fiscal Year 2026 Budget**
 - **Technology R&D**
 - **Directives to continue investigations into PFAS health impacts**

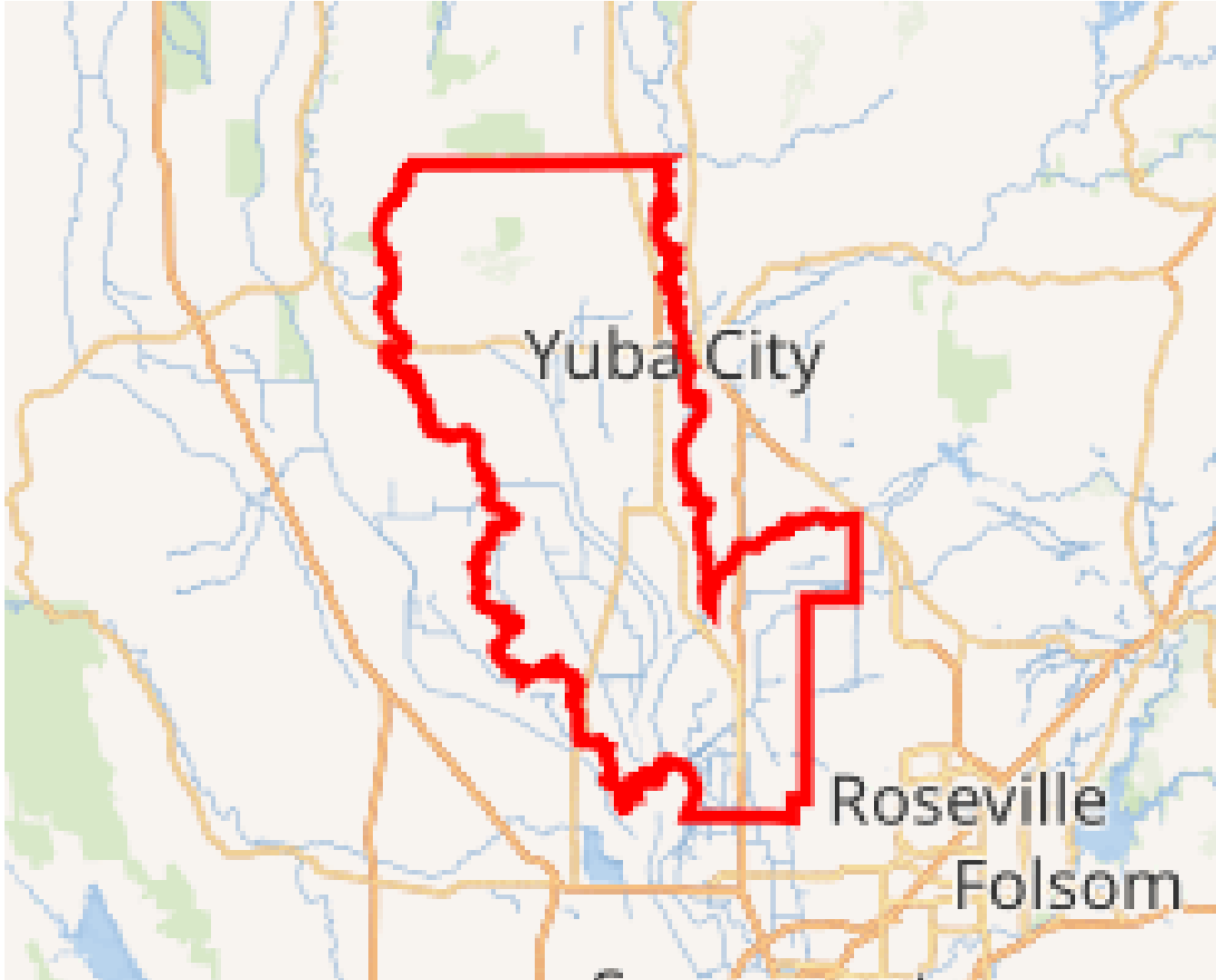


County Ordinance Requirements and Biosolids Bans

- Ban on All Land Application
- Ban on Class B
- Conditional Use Permit Required
- Class B Land Application Allowed
- No Regulations/Ordinances Enacted

... **Let's review a few of them** ...

SUTTER COUNTY... a *SUCCESS* Story!!



Agriculture Value

- \$0.78-Billion

Primary Products:

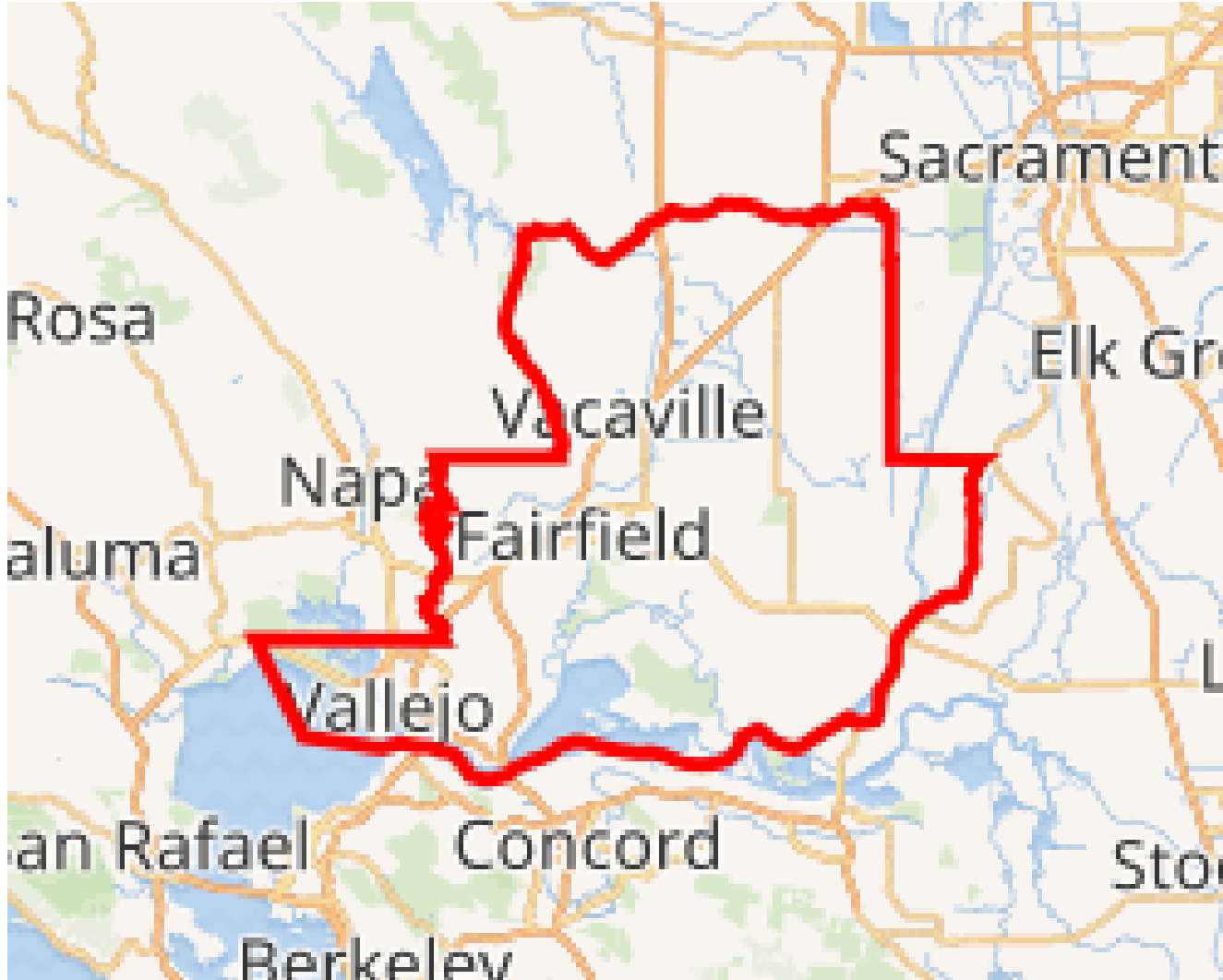
- Rice (50%)
- Walnuts

2023: Total BAN

2024:

Class B ban: Class A with permit; Class A with CDFA unrestricted

SOLANO COUNTY ... a **BIG** Loss!



Agriculture Value

- \$0.5-Billion

Primary Products:

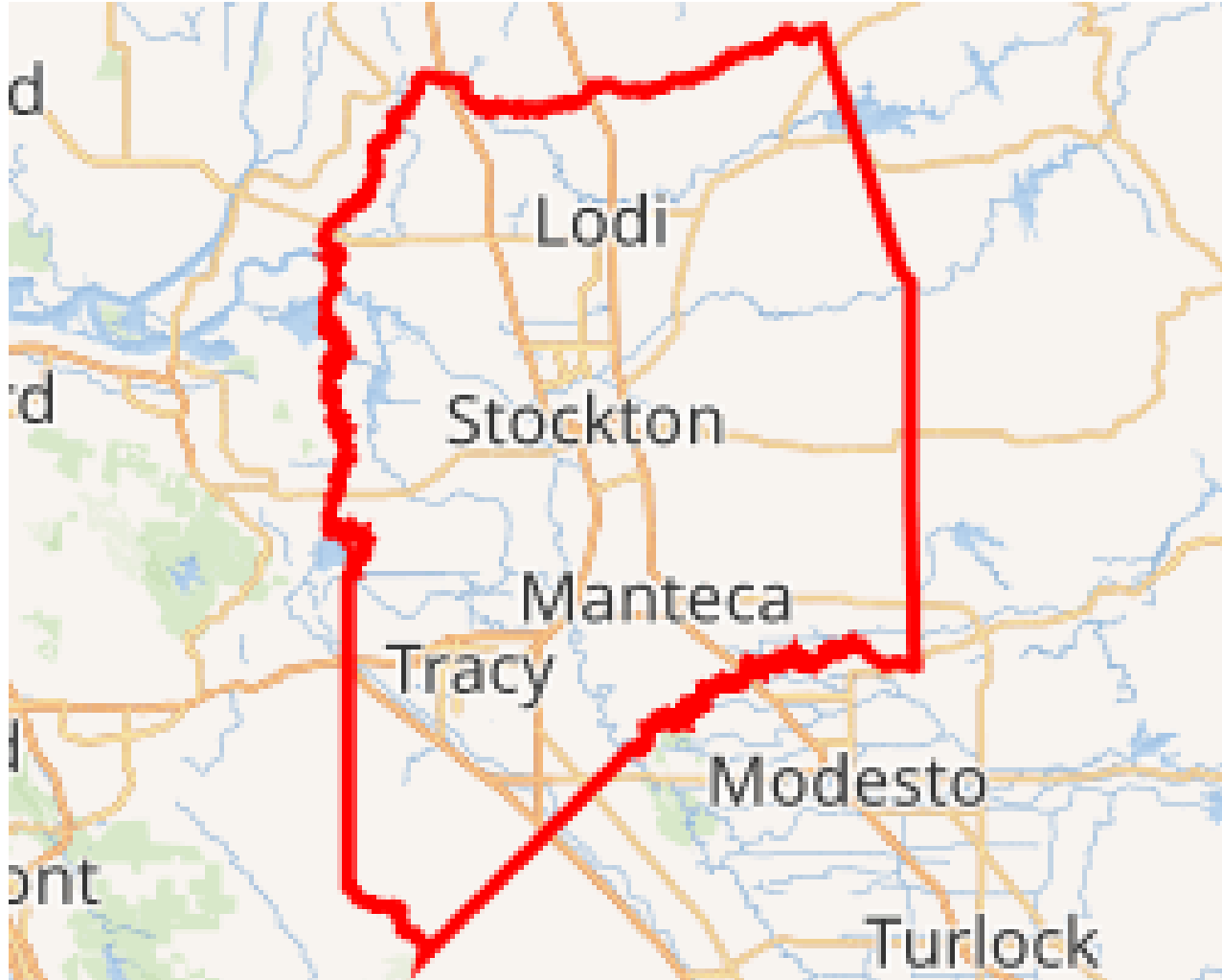
- Fruits/Vegetables
- Livestock
- Winegrapes

Biosolids Ordinance

- 6-month seasonal

California Forever **STOPS**
land application in 2024
and ... (*forever?*)

SAN JOAQUIN COUNTY ... a Potential Destination



#7 in Agriculture Value

\$3.2-Billion

Primary Products:

- Milk
- Grapes
- Almonds

Ban on biosolids;
fertilizers not regulated

STANISLAUS COUNTY ... a Future Challenge



#6 in Agriculture Value

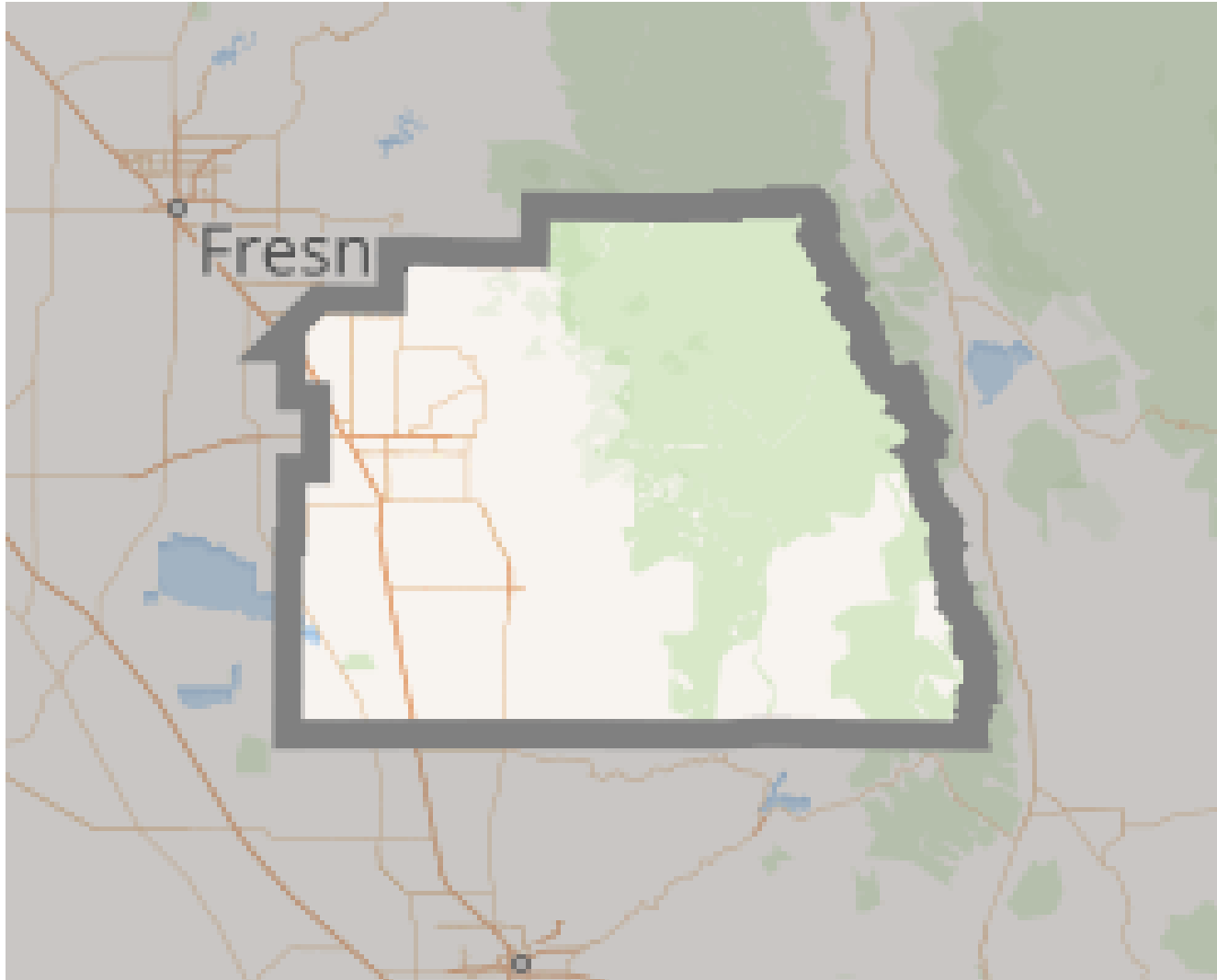
\$3.3-Billion

Primary Products:

- Milk
- Almonds
- Poultry

Total BAN on biosolids

TULARE COUNTY ... Try and Try Again...



#2 in Agriculture Value

\$7.8-Billion

Primary Products:

- Milk
- Grapes
- Livestock

Total practical BAN on
biosolids

RIVERSIDE COUNTY ... Land of Opportunities ...



#14 Agriculture Value

\$1.5-Billion

Primary Products:

- Vegetables
- Ornaments
- Table Grapes

Conditional Use Permit
(CUP) required

IMPERIAL COUNTY ... a Future Challenge ...



#8 in Agriculture Value

\$2.6-Billion

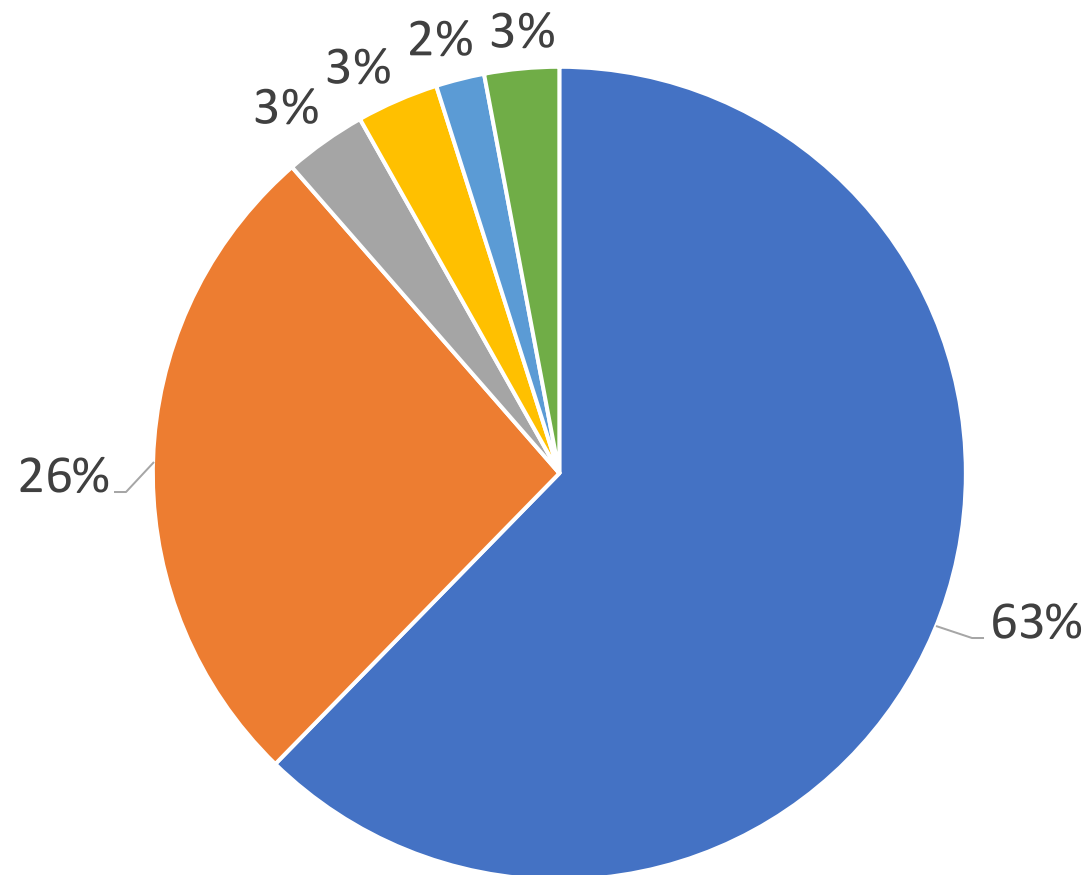
Primary Products:

- Livestock
- Field crops
- Vegetables/melons

Conditional Use
Permit (CUP) required

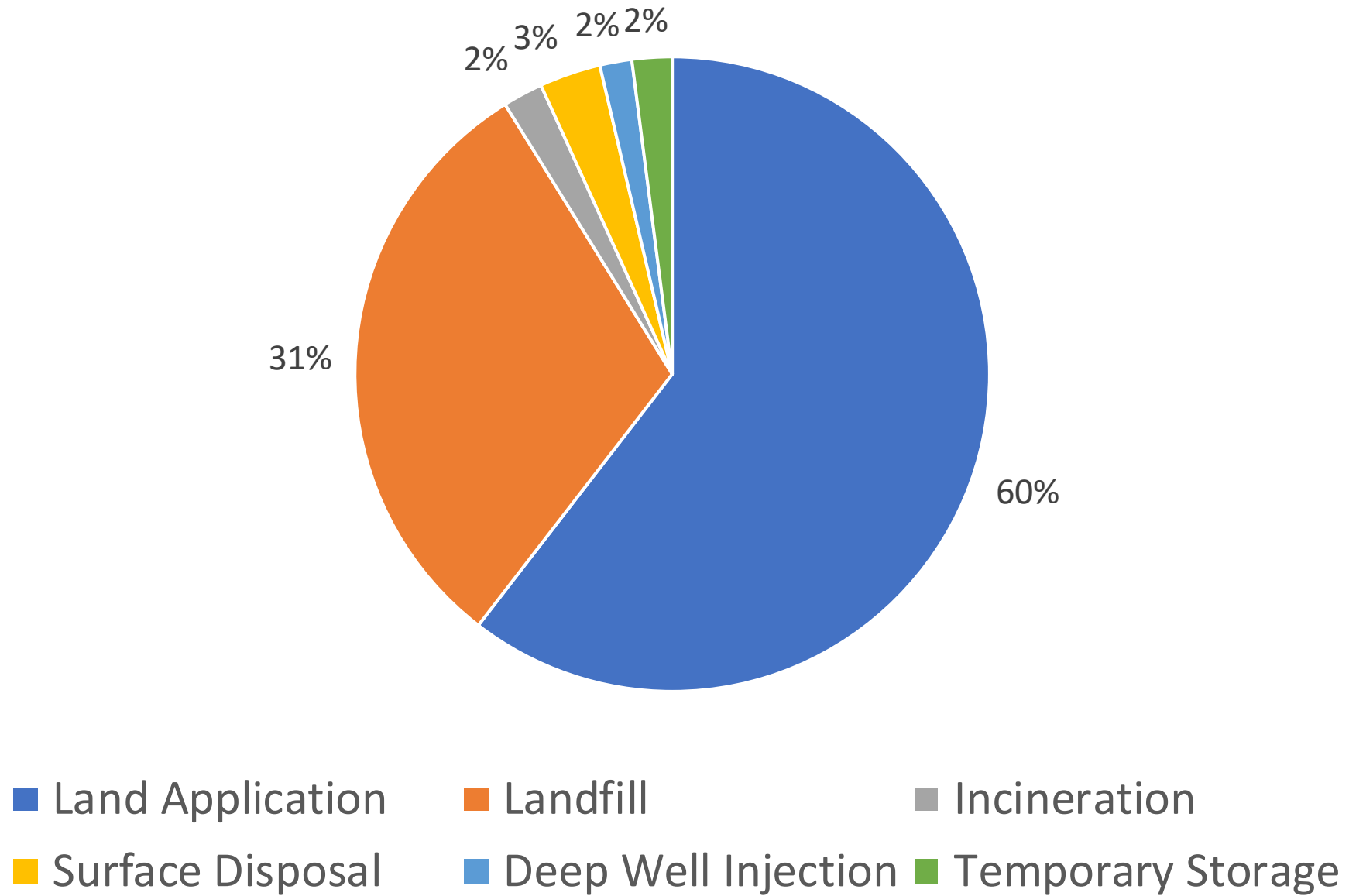
BY THE NUMBERS... (in Dry Metric Tons-DMT)

Year	Biosolids Generated	Land Application	Landfill	Incineration	Surface Disposal	Deep Well Injection	Temporary Storage	Prior Year
2017	679,000	420,000	177,000	22,000	22,000	13,000	20,000	
2020	650,000	433,000	150,000	15,000	20,000	9,000	23,000	
2023	662,000	445,000	226,000	15,000	23,000	12,000	15,000	74,000

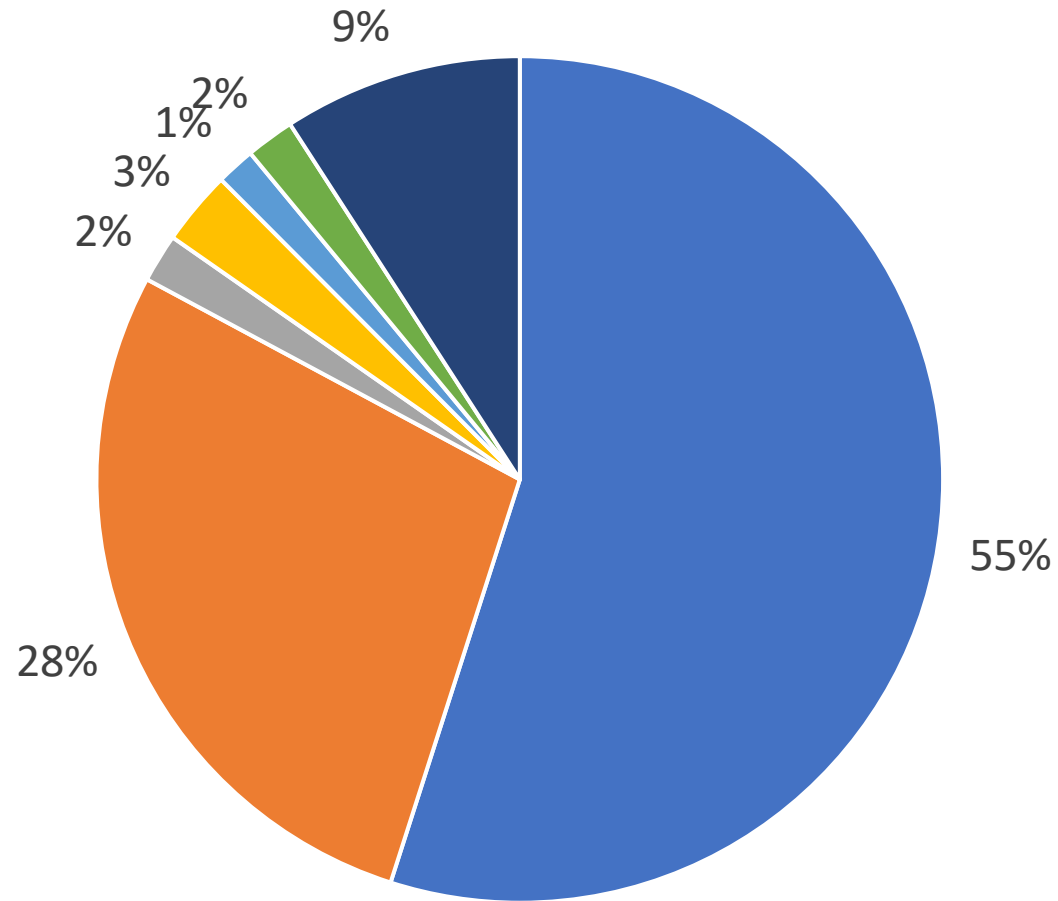


- Land Application
- Landfill
- Incineration
- Surface Disposal
- Deep Well Injection
- Temporary Storage

2020



2023



■ Land Application

■ Landfill

■ Incineration

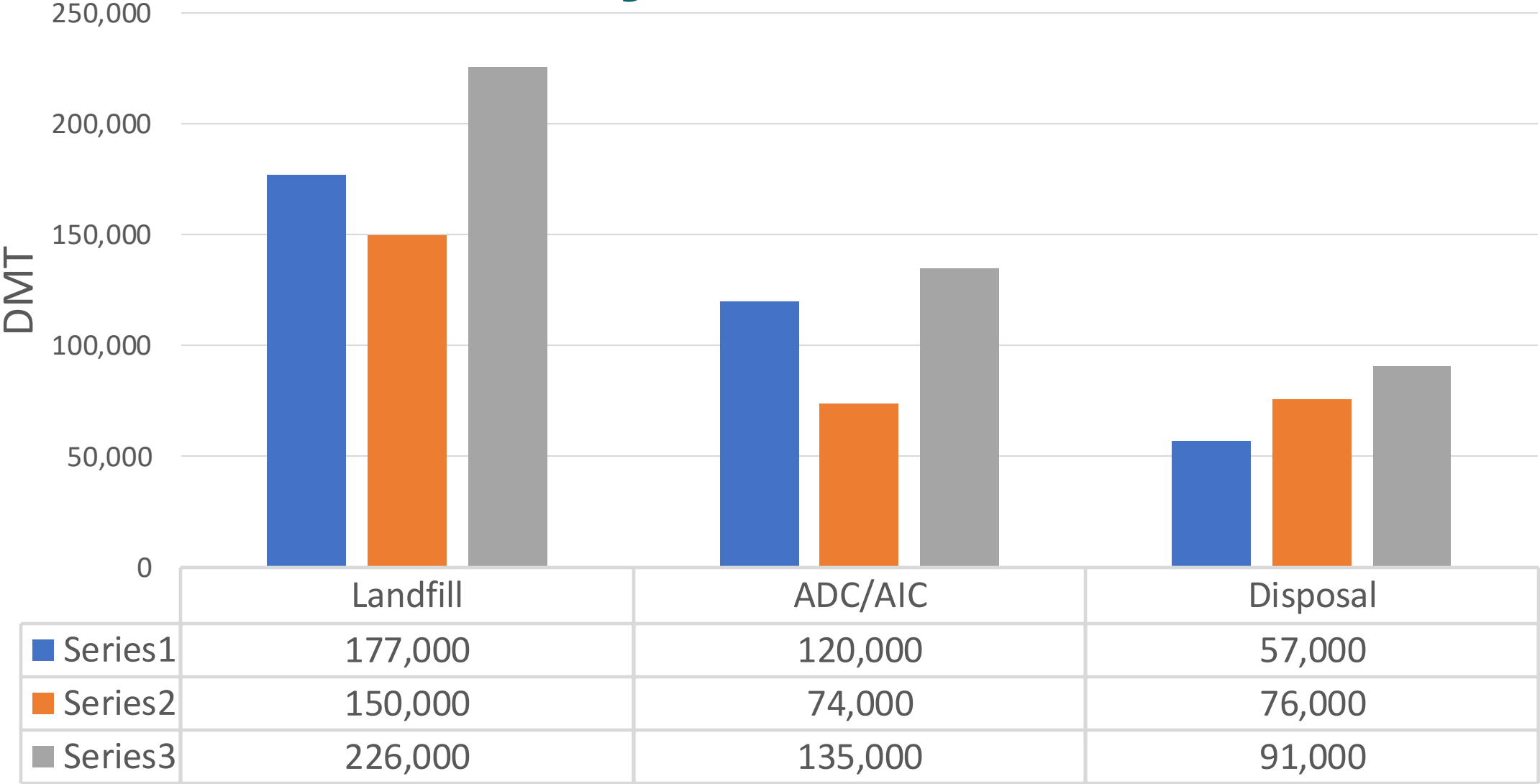
■ Surface Disposal

■ Deep Well Injection

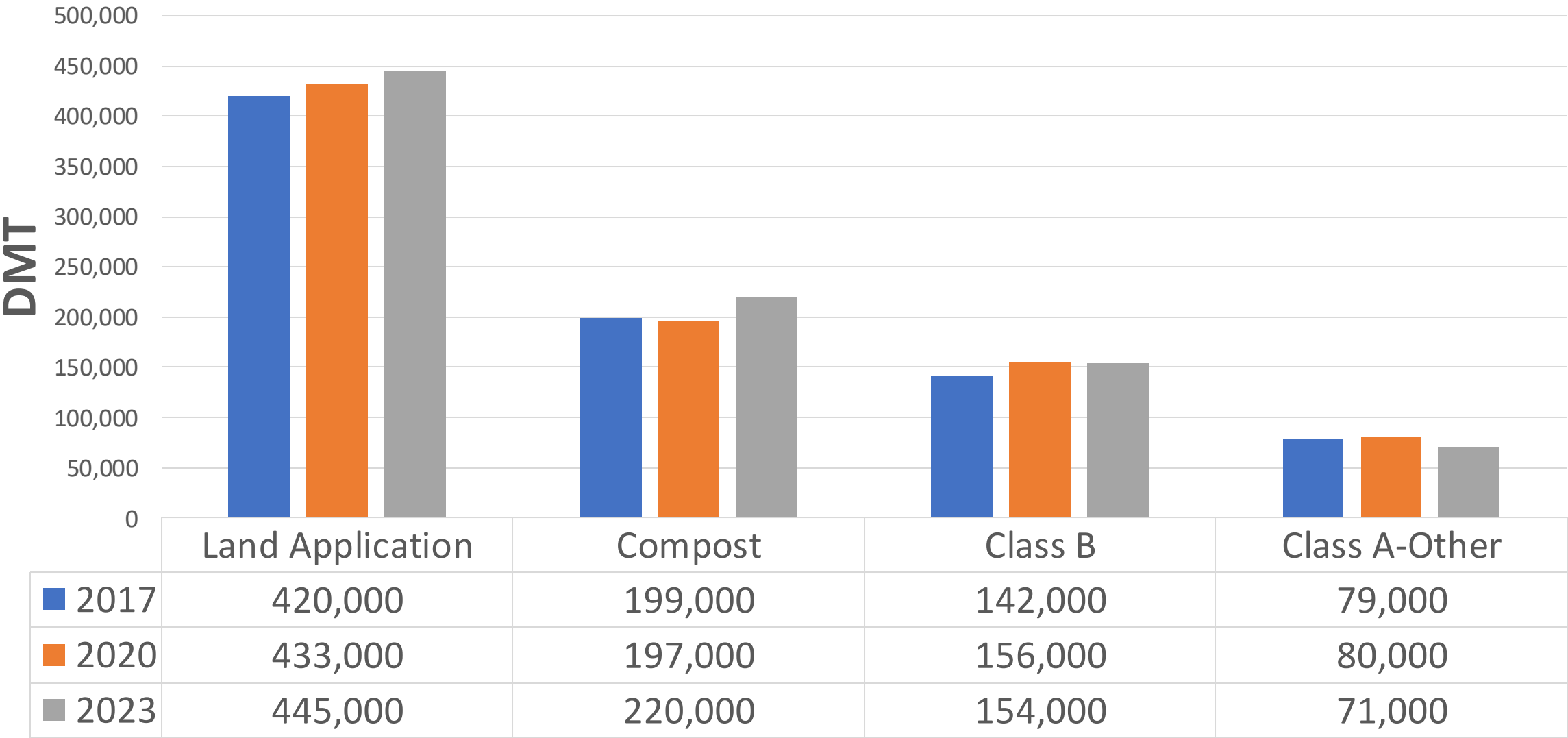
■ Temporary Storage

■ Prior Year

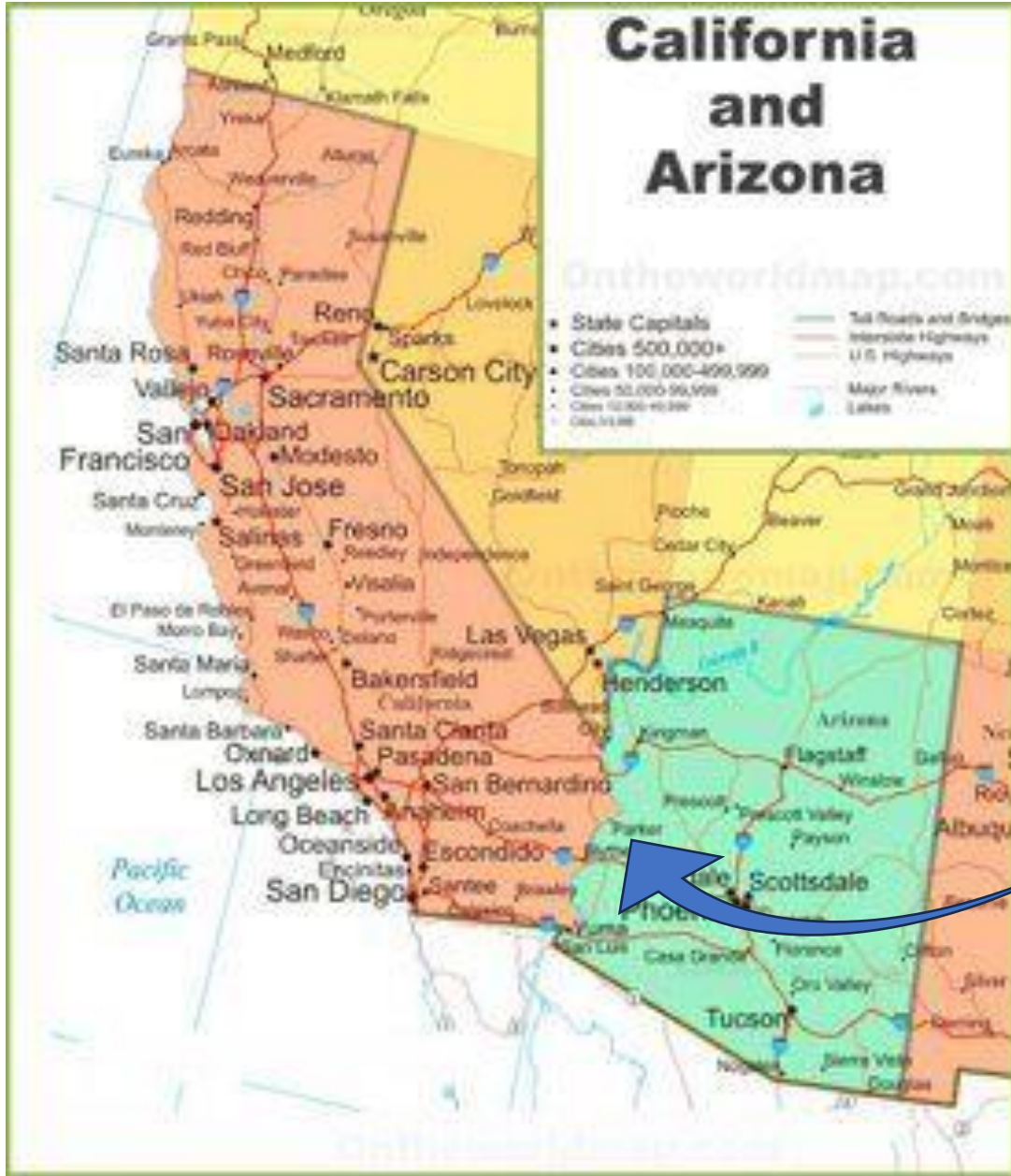
LANDFILL USAGE by YEAR



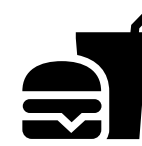
LAND APPLICATION by YEAR



**IF YOU ARE
LOOKING FOR A
SIGN THAT YOU
SHOULD BE
DIVERSIFYING
YOUR
BIOSOLIDS
OPTIONS ...
... HERE IT IS!!!**



EXTRA CREDIT



SB 1383 established state-wide goals for reducing methane-causing organics



Jurisdictions are to have diversion plans to reduce organics being sent to landfills; including food recovery opportunities



Diverted organics would be used to produce materials that jurisdictions are to procure; **current eligible materials** focus on compost and RNG/electricity



AB 643...Needs our support

Jurisdictions doing **Good** with diversion; **NOT SO GOOD** with procurement

Need to expand the eligibility of materials so that procurement goals can be achieved, incentivize service providers to invest in products made from diverted organics

Assigned as a 2-year bill, meaning it is scheduled for a January 2026 committee hearing

DRAFT Bill Language:

(j) A local jurisdiction may count organic material used as a beneficial agricultural amendment towards its recovered organic waste procurement target if both of the following conditions are met:

(1) The material is processed at a facility using technologies approved by the department pursuant to Chapter 12 (commencing with Section 18981.1) of Division 7 of Title 14 the California Code of Regulations that meet the criteria of this section.

(2) The material is licensed for end use as an agricultural fertilizer by the Department of Food and Agriculture.

Lori Wilson, Assemblywoman, District 11



Thank You!

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My final thoughts ... for today...

If you *think* that technology is the solution to your problem...

... then you don't *understand* technology ...

... and you don't *know* your problem.