



CLEAN WATER SoCAL
CREATING SUSTAINABLE SOLUTIONS

COMMITTEE MEETING

May 15, 2025



Delivering Proven Results
with Innovative Solutions

BIOSOLIDS
LAND
APPLICATION
UPDATES
May 15, 2025



CLEAN WATER SoCAL
CREATING SUSTAINABLE SOLUTIONS

Presented By:

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Business Development Manager
LYSTEK INTERNATIONAL

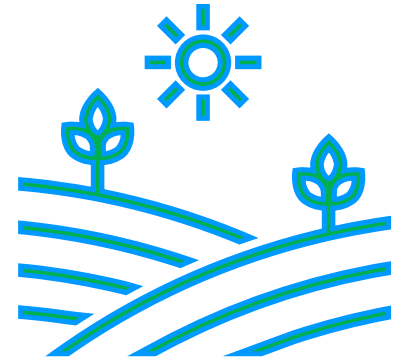
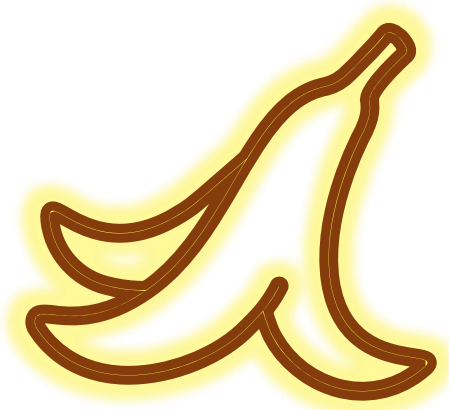
Jim's career has been dedicated to managing, treating, and recovering waste byproducts in North America and Europe.

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Waste is a Resource in the Wrong Place!



We Are HERE !!

EPA Region IX
(CA, NV, AZ)

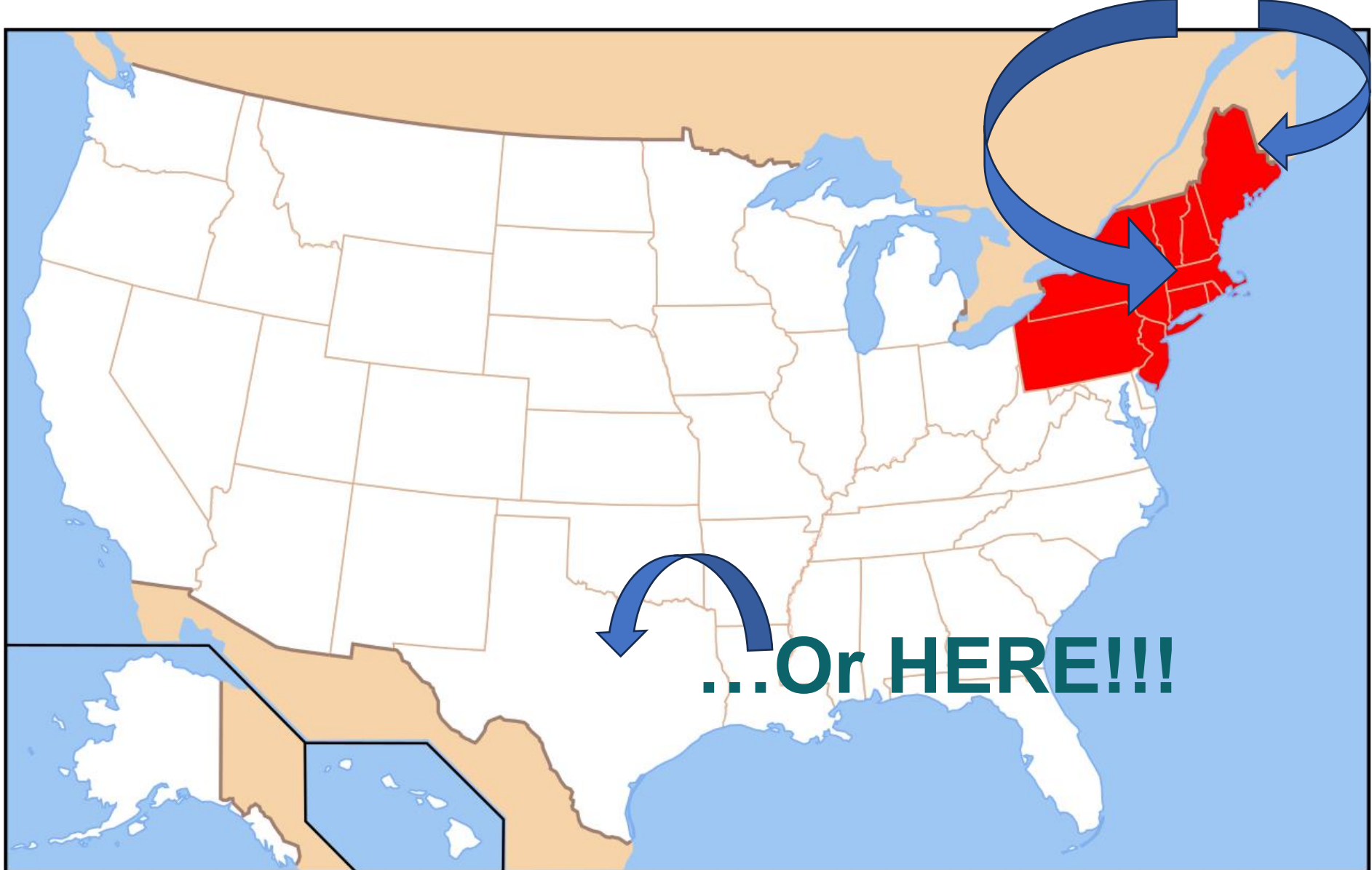
Main Office in
San Francisco

Field Office in
Los Angeles

Also San Diego & Hawaii



We Are NOT Here!!



...Or HERE!!!

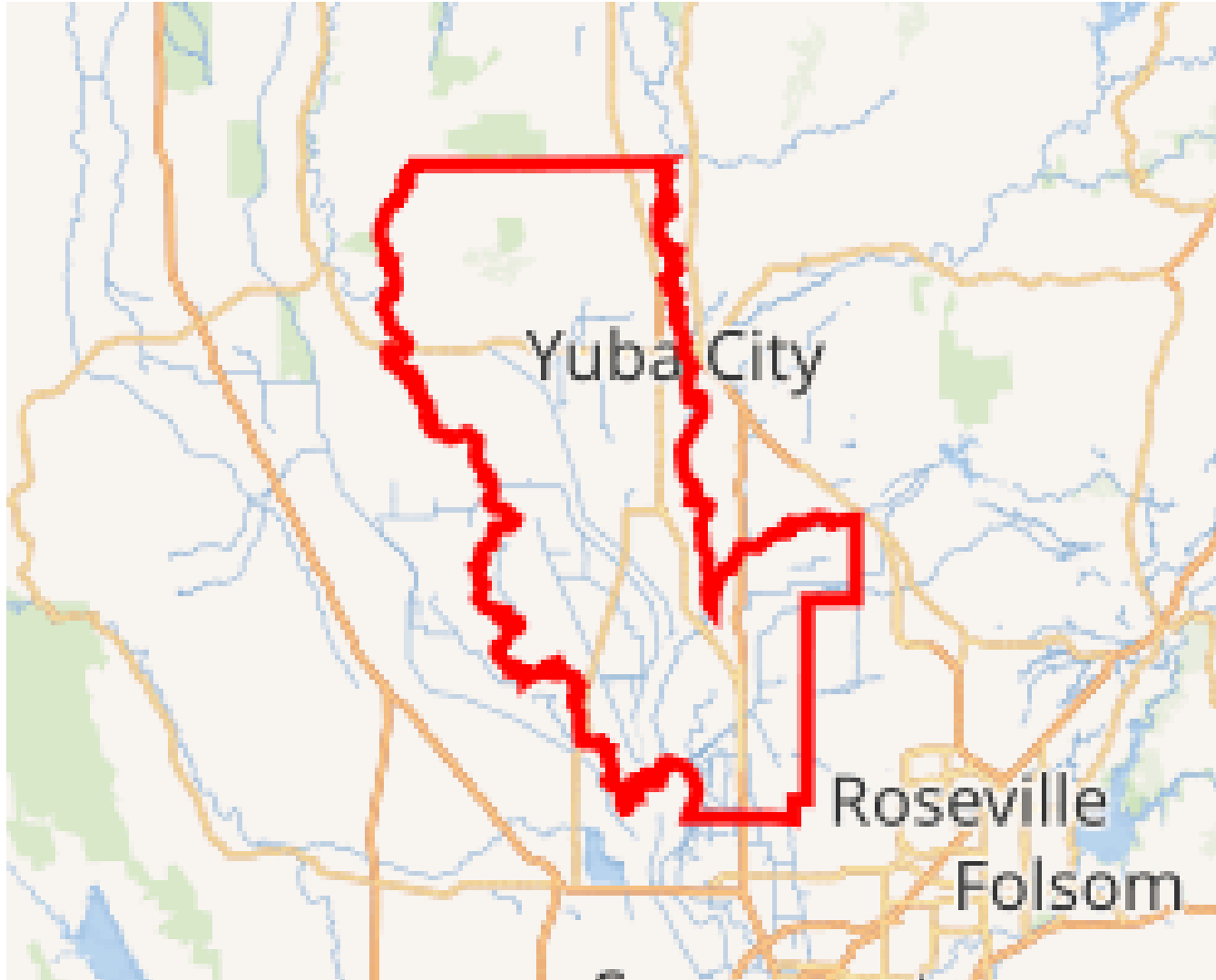


County Ordinance Requirements and Biosolids Bans

- 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:

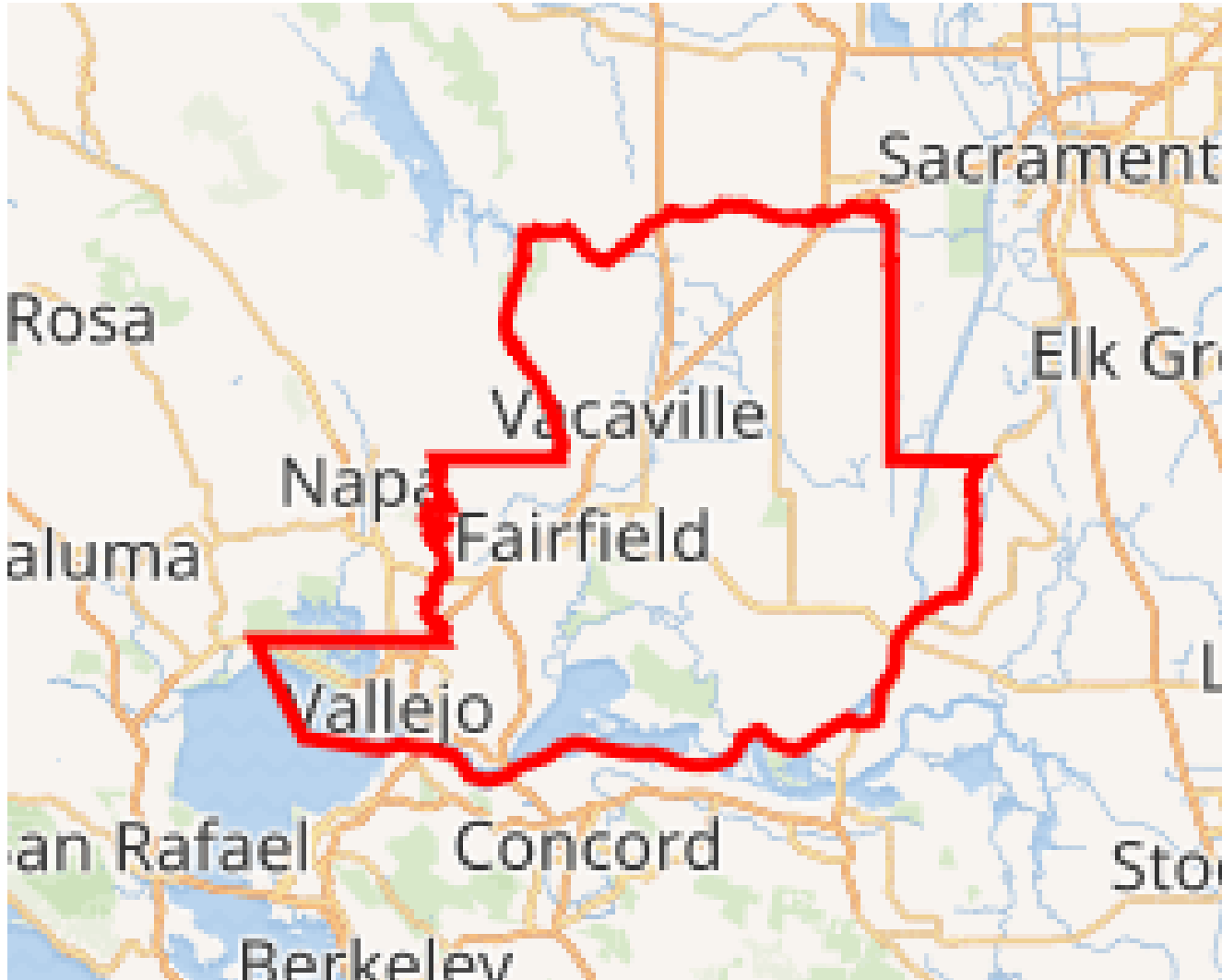
- Rice (50%)
- Walnuts

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:

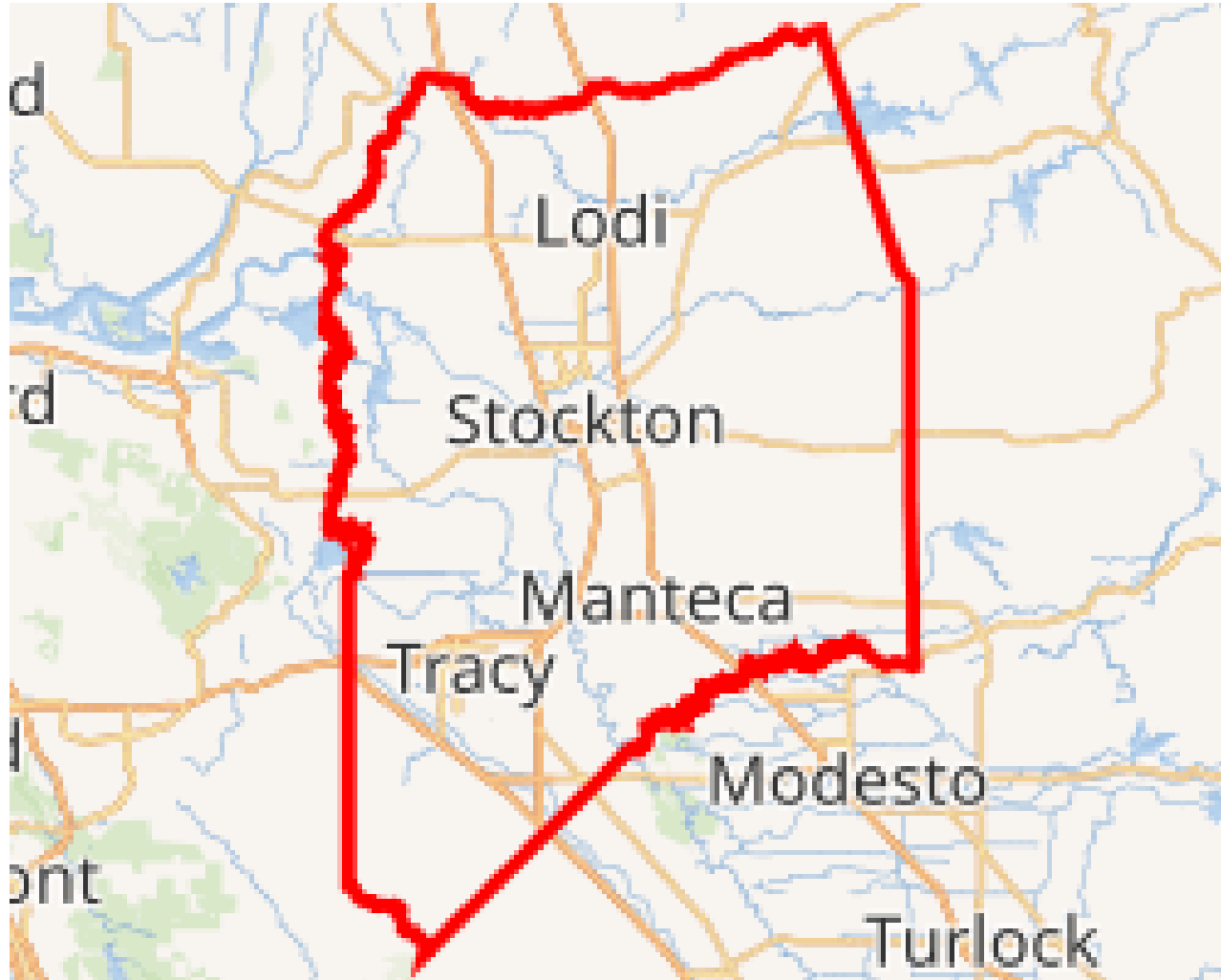
- Fruits/Vegetables
- Livestock
- Winegrapes

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

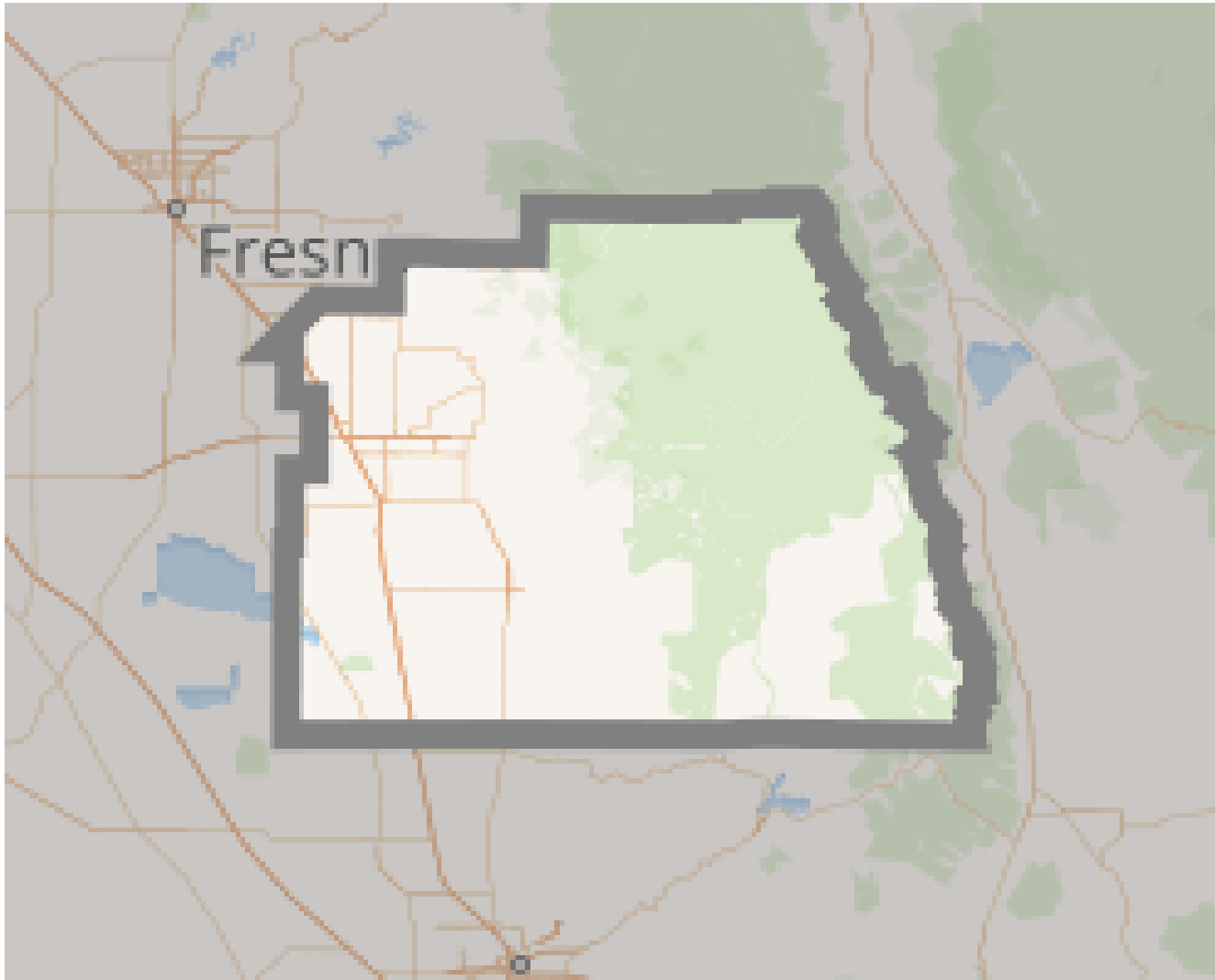
\$3.3-Billion

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

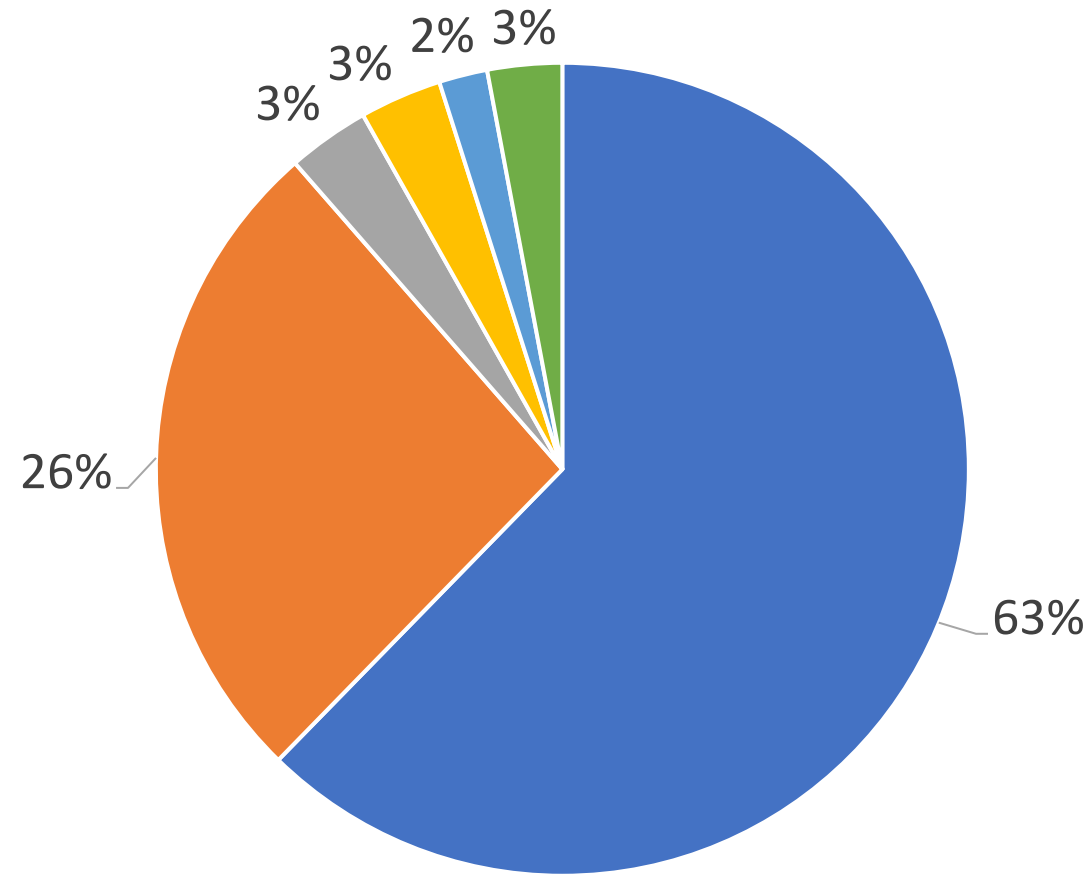
Primary Products:

- Livestock
- Field crops
- Vegetables/melons

Conditional Use
Permit (CUP) required

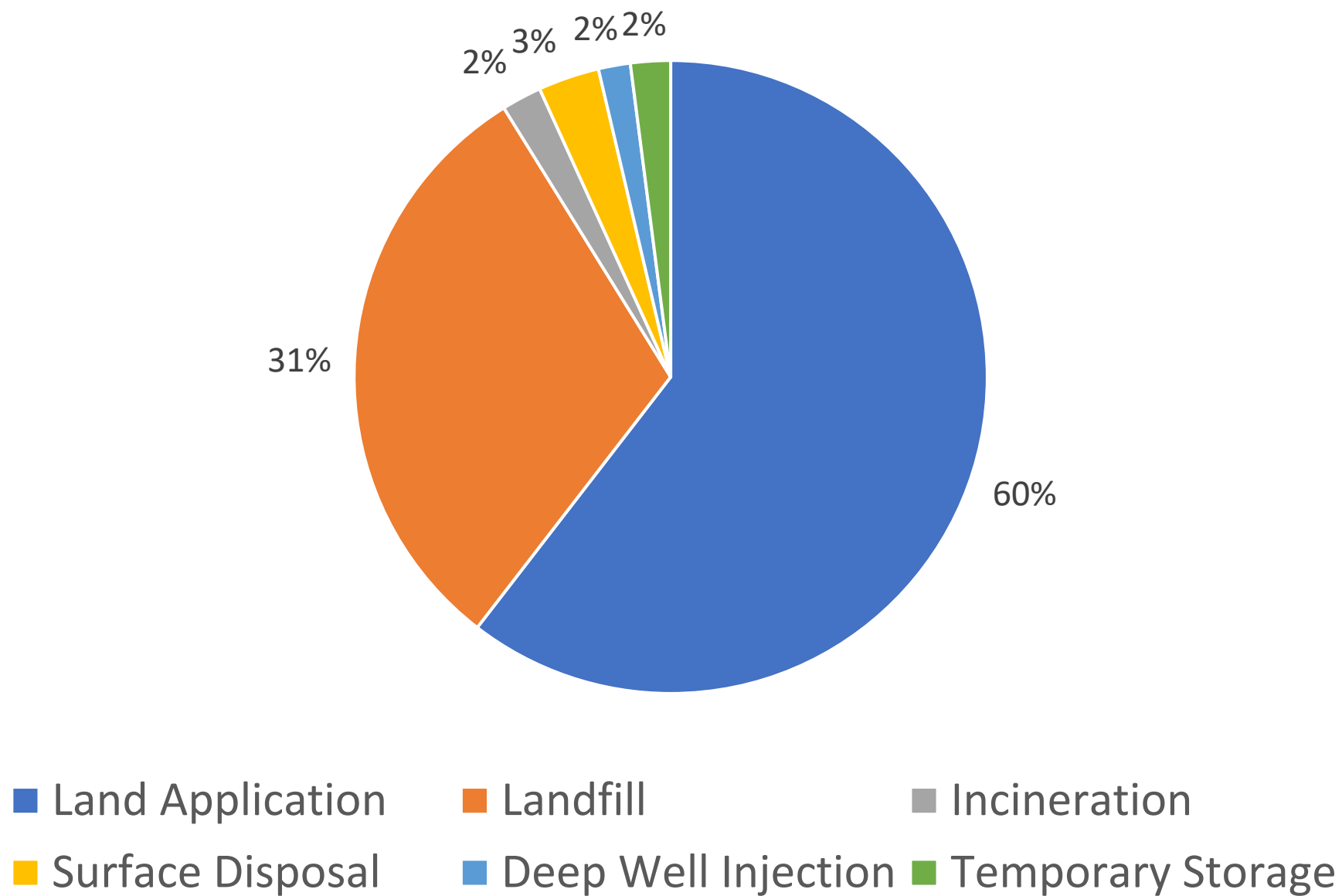
BY THE NUMBERS... (in Dry Metric Tons-DMT)

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

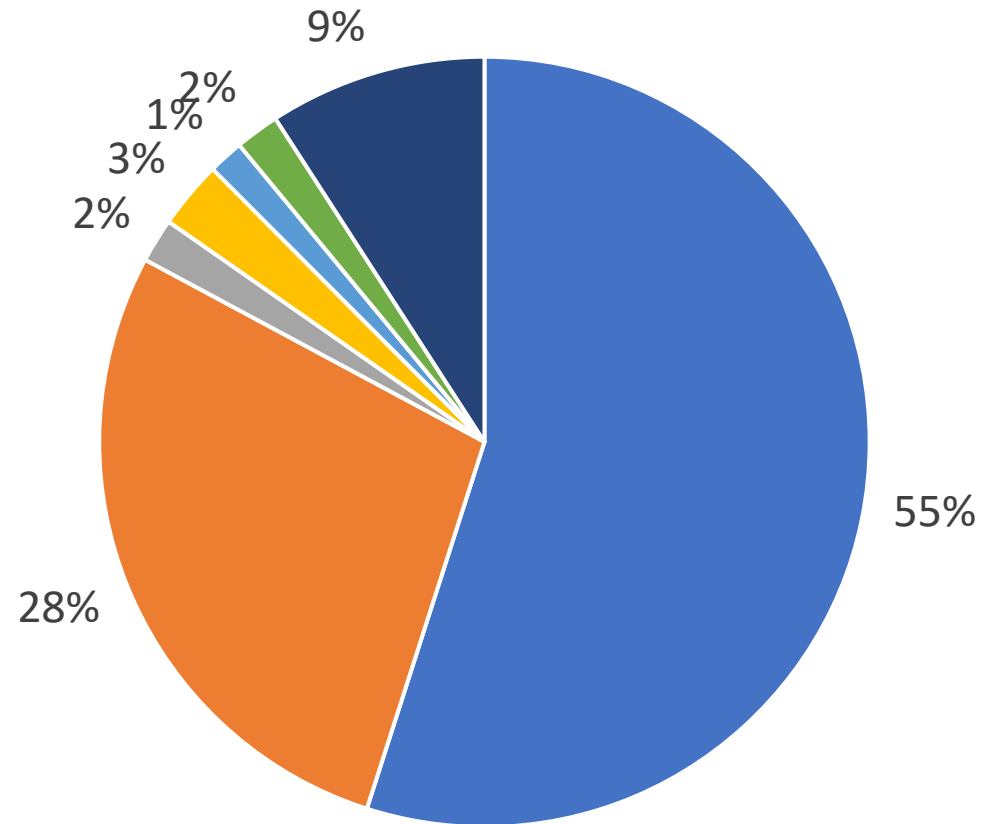


- Land Application
- Landfill
- Incineration
- Surface Disposal
- Deep Well Injection
- Temporary Storage

2020

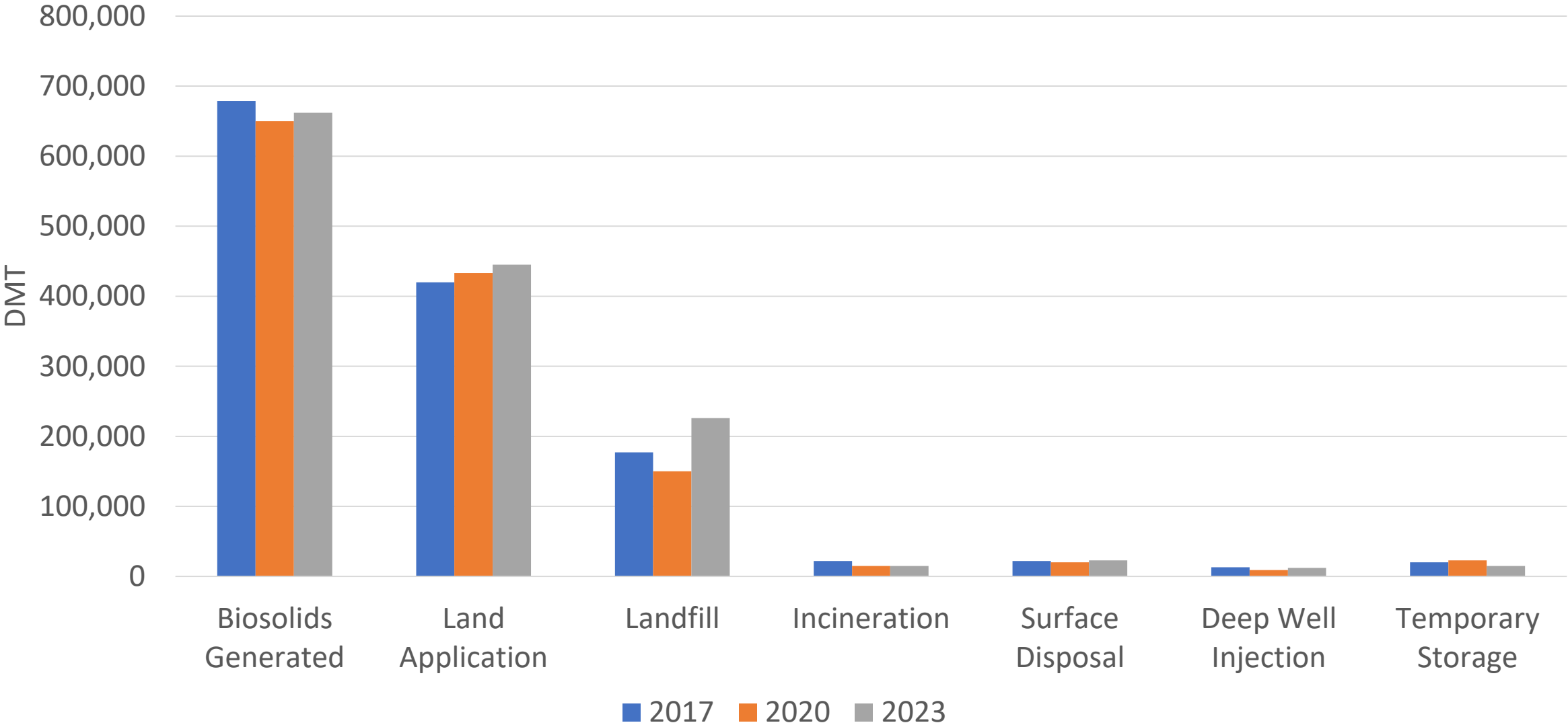


2023

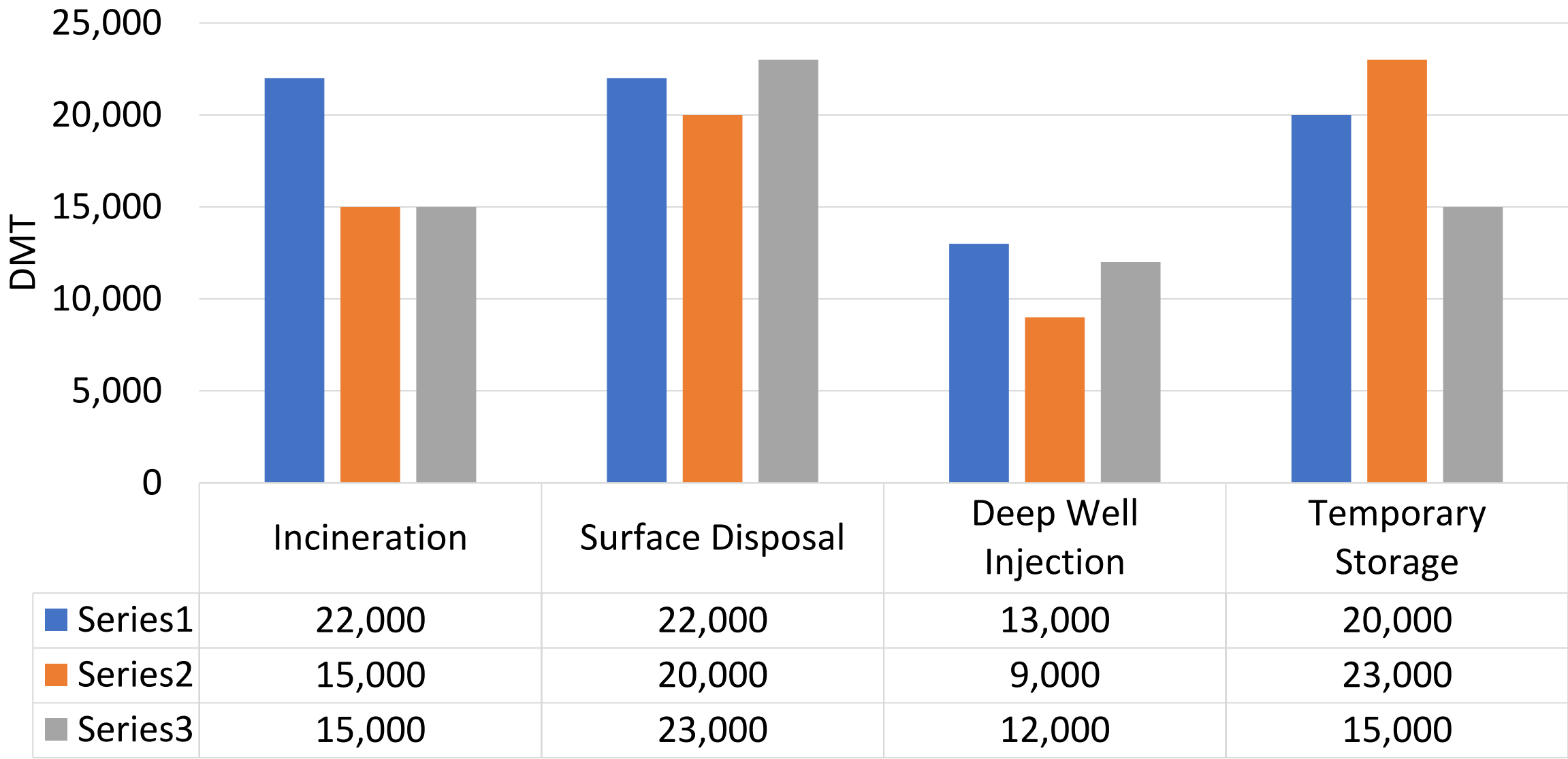


- Land Application
- Landfill
- Incineration
- Surface Disposal
- Deep Well Injection
- Temporary Storage
- Prior Year

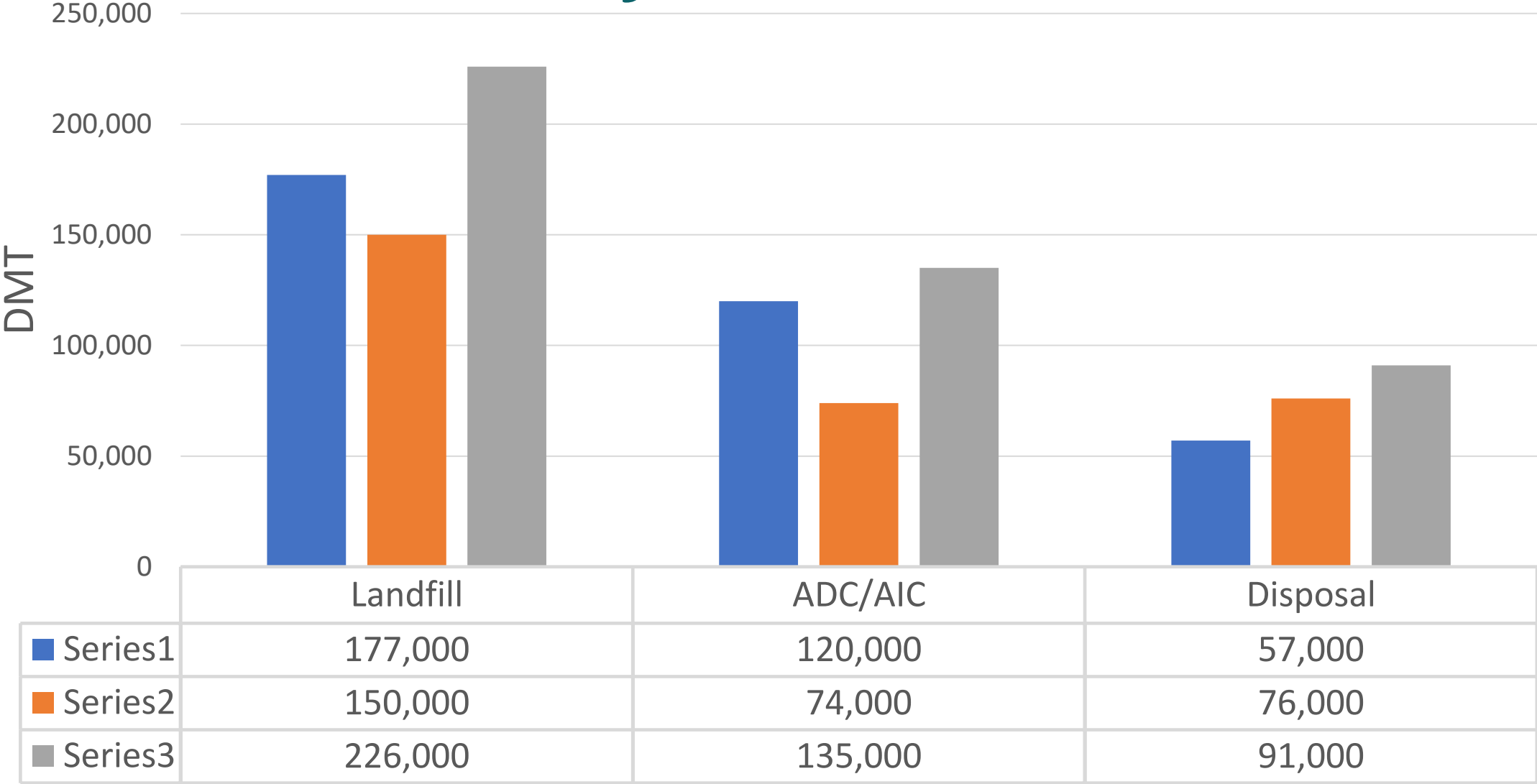
COMPOSITE SUMMARY by MANAGEMENT OPTIONS



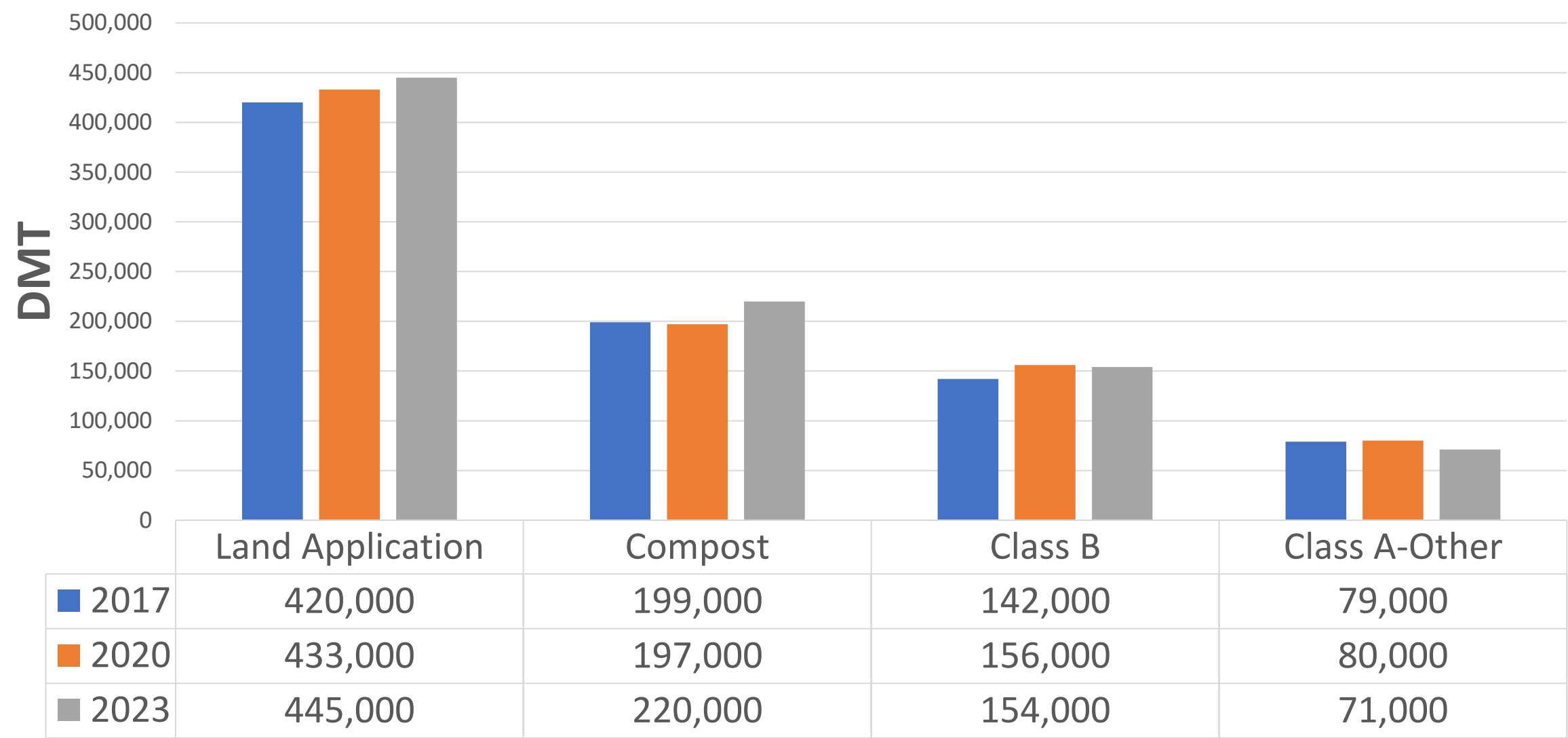
MICRO - SUMMARY by MANAGEMENT OPTIONS



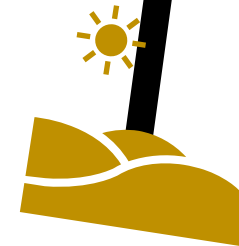
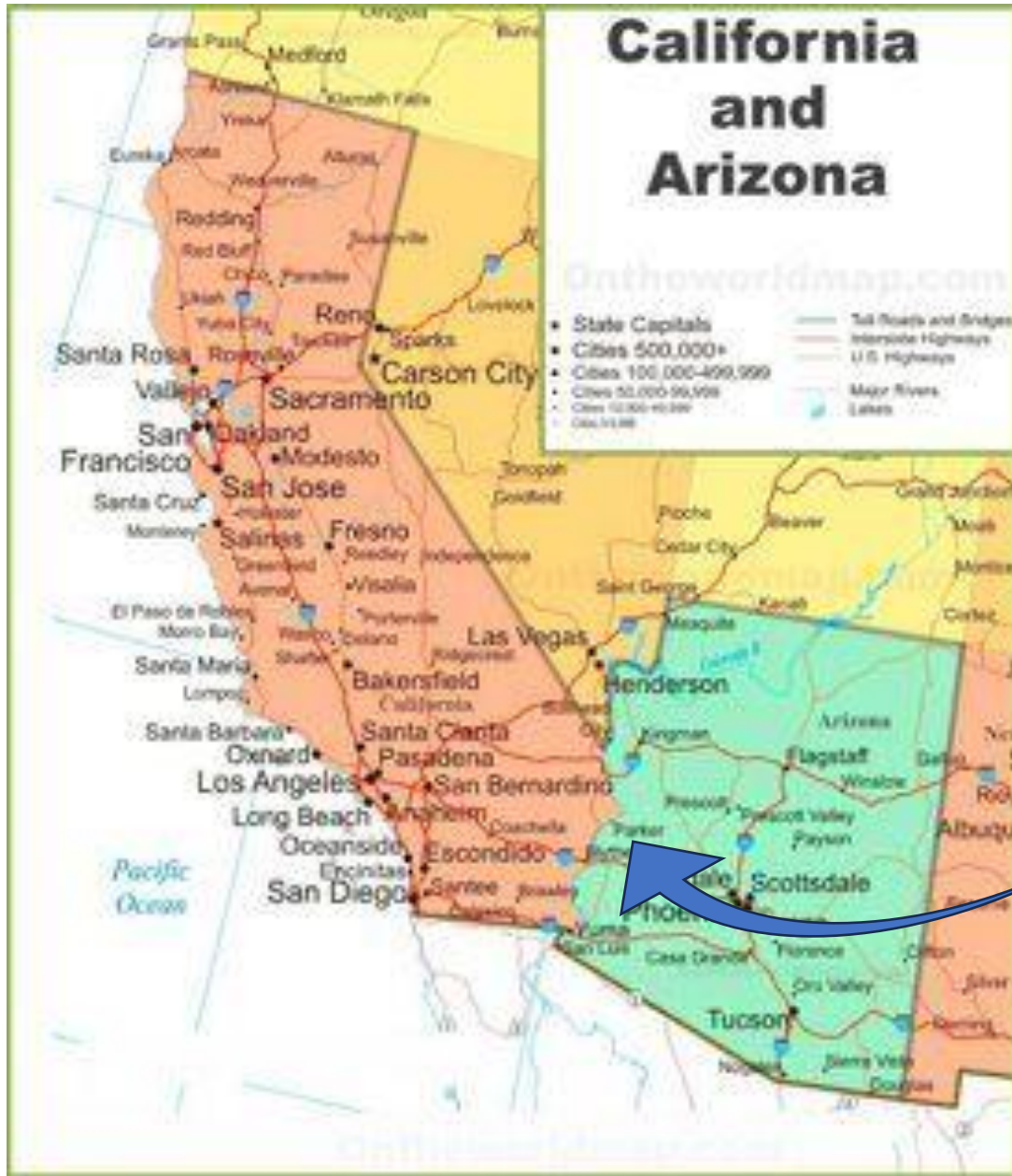
LANDFILL USAGE by YEAR



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.