CRT DISPOSITION OVERSIGHT

HOW DO OTHER STATES MANAGE THEIR GLASS RESIDUALS?

Jason Smyth

OTHER STATE E-WASTE MODELS

- EPR – Extended Producer Responsibility
- Centered on collection
- Different from California's fee & payment system

OTHER STATE E-WASTE MODELS (CONT.)

- Entities
  - Household, business (varied sizes), government, non-profits, schools
- Devices/Products
  - Minimum screen size provisions
  - Laptops
  - Monitors
  - TVs
  - Desktop
  - Printers
  - Fax, scan, DVD, E-readers, etc.

PRIMARY QUESTIONS

- WHAT DO RECYCLERS DO WITH THE COLLECTED CRT GLASS?
- HOW DO REGULATORS EXERCISE OVERSIGHT OVER CRT GLASS RESIDUAL DISPOSITION?
- DO REGULATORS TRACK NUMBERS ON RESIDUALS?

RESIDUALS FROM PROCESSING CRT DEVICES

- Wood, plastic, ferrous/non-ferrous metals
- Panel Glass – 2% lead
- Funnel Glass – 40% lead

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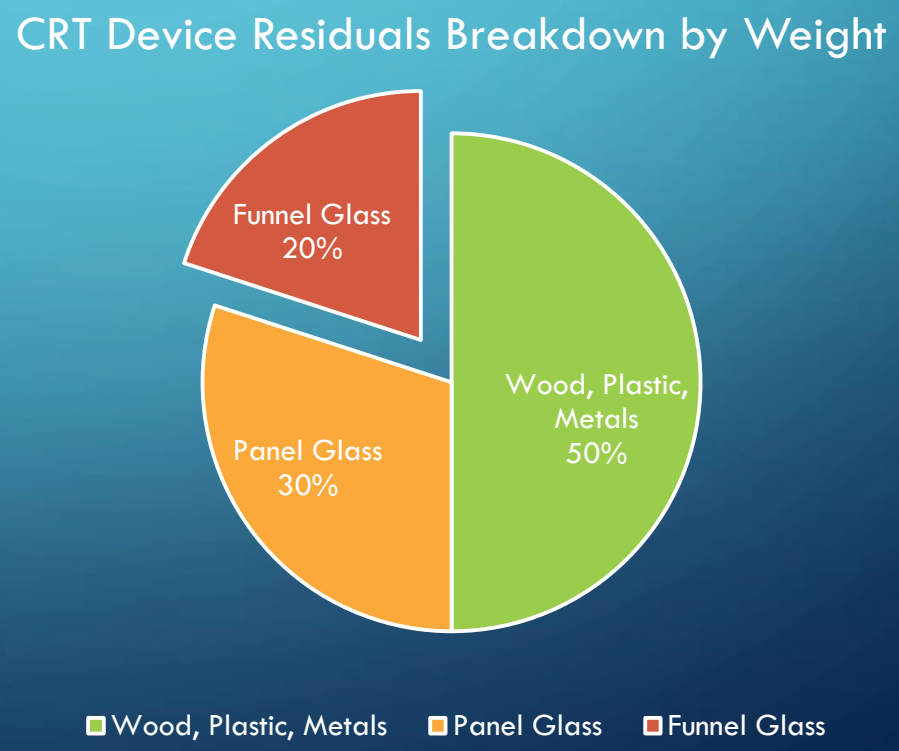

WHAT DO RECYCLERS DO WITH THE COLLECTED CRT GLASS?

- Stack, wrap, and ship units
- Process to CRT tubes and ship
- Separate panel from funnel
- Clean the glass

WHERE DOES IT GO? ULTIMATE DISPOSITIONS

- Glass-to-glass/ CRT manufacturing
- Smelting Operations
- Disposal
- Treated ADC/mineable cells
- Fiberglass
- Countertops
- Reflective paint
- Jewelry
- Marbles

WHERE DOES IT GO? ULTIMATE DISPOSITIONS

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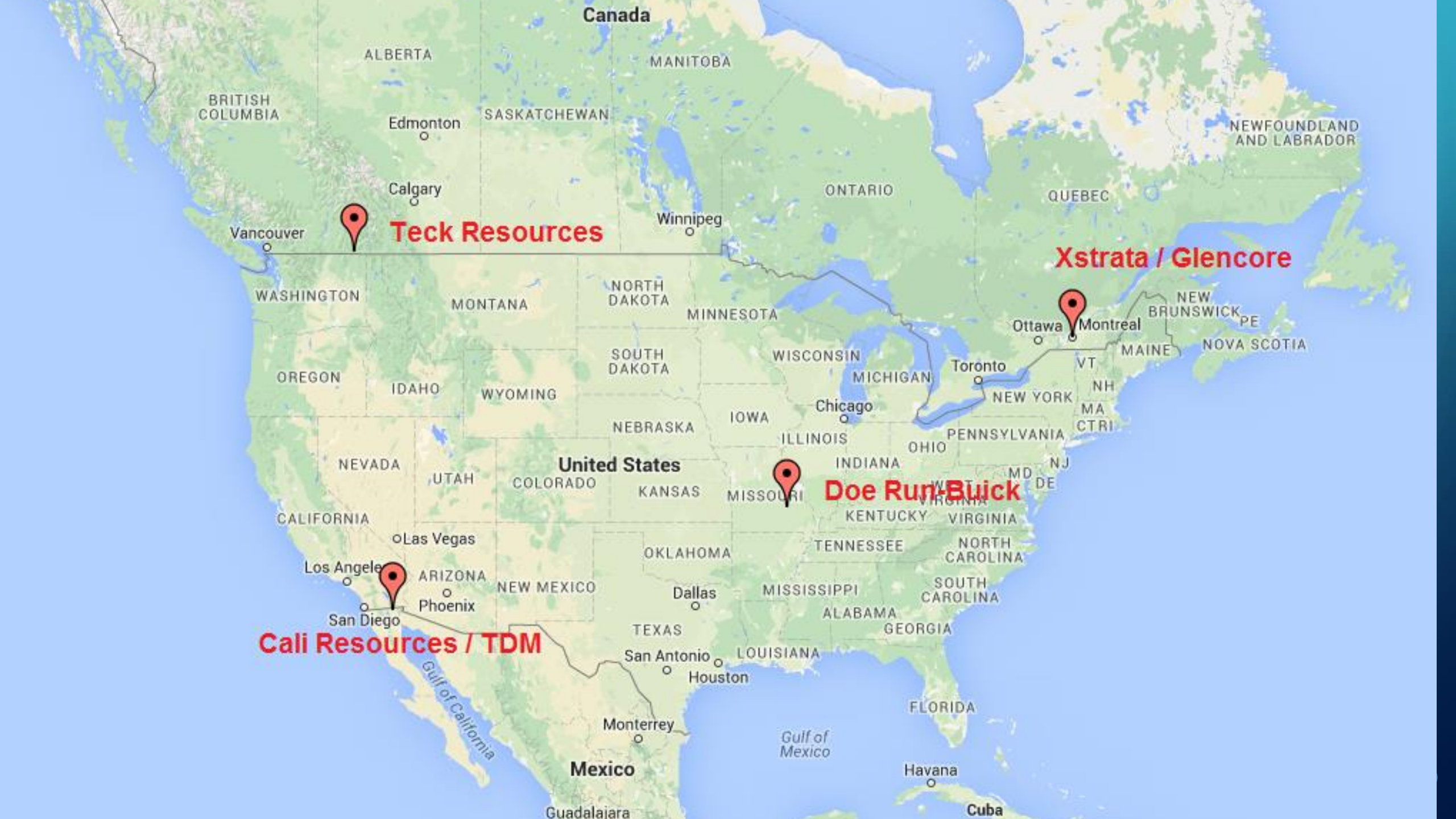
- Disposal
- Treated ADC/mineable cells

- Videocon (India)
- 2 in Canada, 1 in Missouri
- Hazardous or panel?
- Policy questions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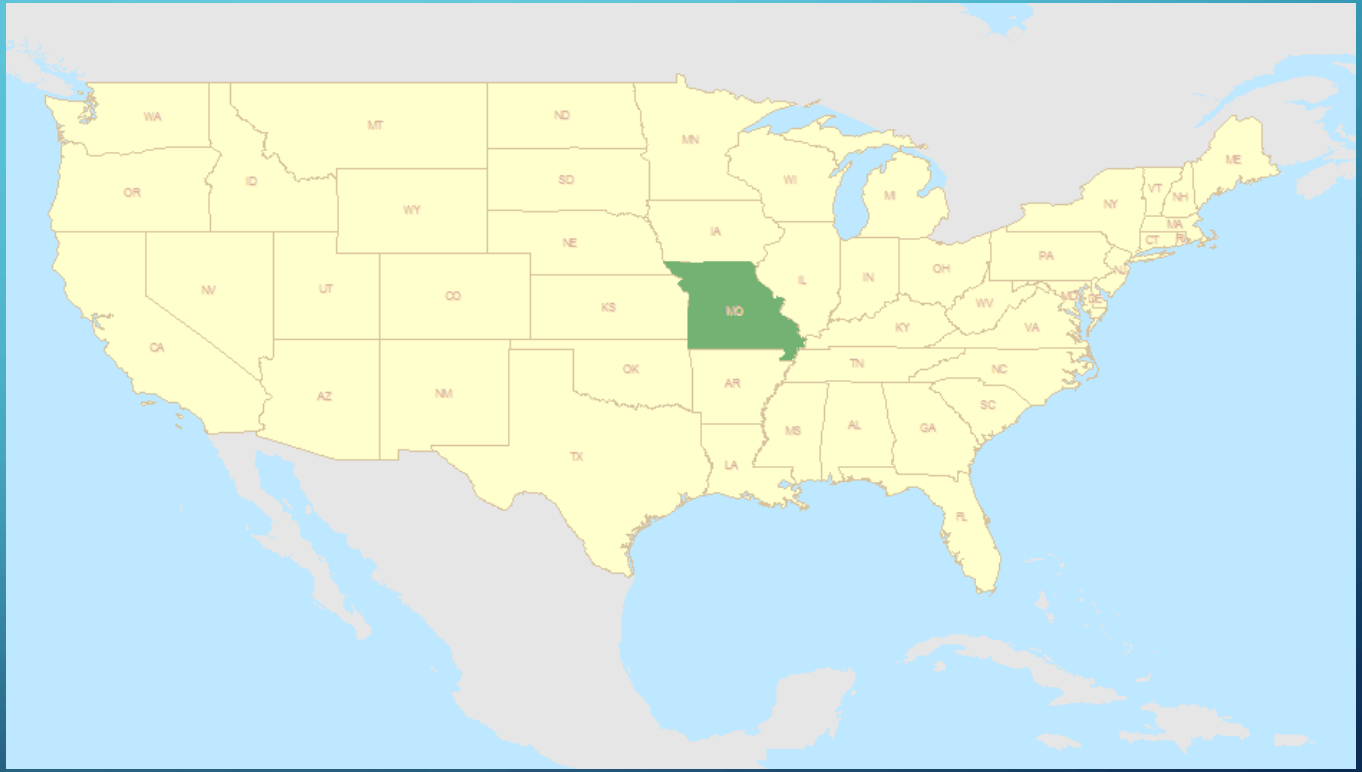
MISSOURI

- Home to Doe Run
  - Scale
  - Geography
  - Cost as an outlet



HOW DO REGULATORS EXERCISE OVERSIGHT OVER CRT GLASS RESIDUAL DISPOSITION?

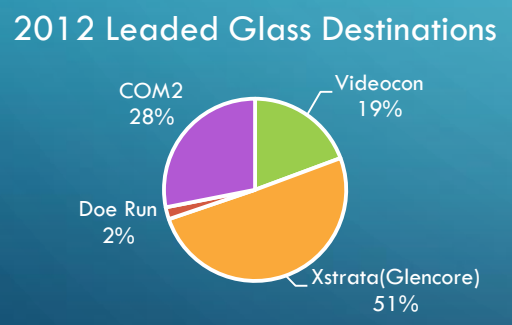
- Rely on federal RCRA standards
- E-Stewards & R2
- Speculative Accumulation laws and variances

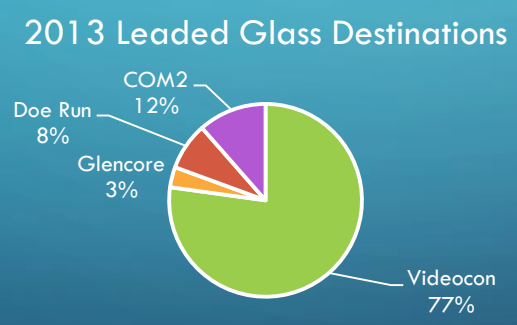
DO REGULATORS TRACK NUMBERS ON RESIDUALS?

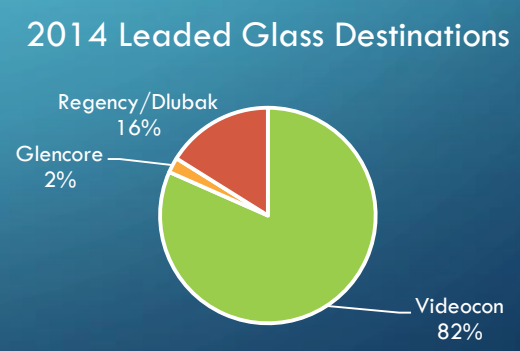
- Point of collection rather than residual management
- Specific residuals are not tracked, but using assumptions they can be estimated

CASE STUDY: CONNECTICUT

- 50% glass
- 60% panel, 40% funnel
- 20% of collection weight is leaded glass







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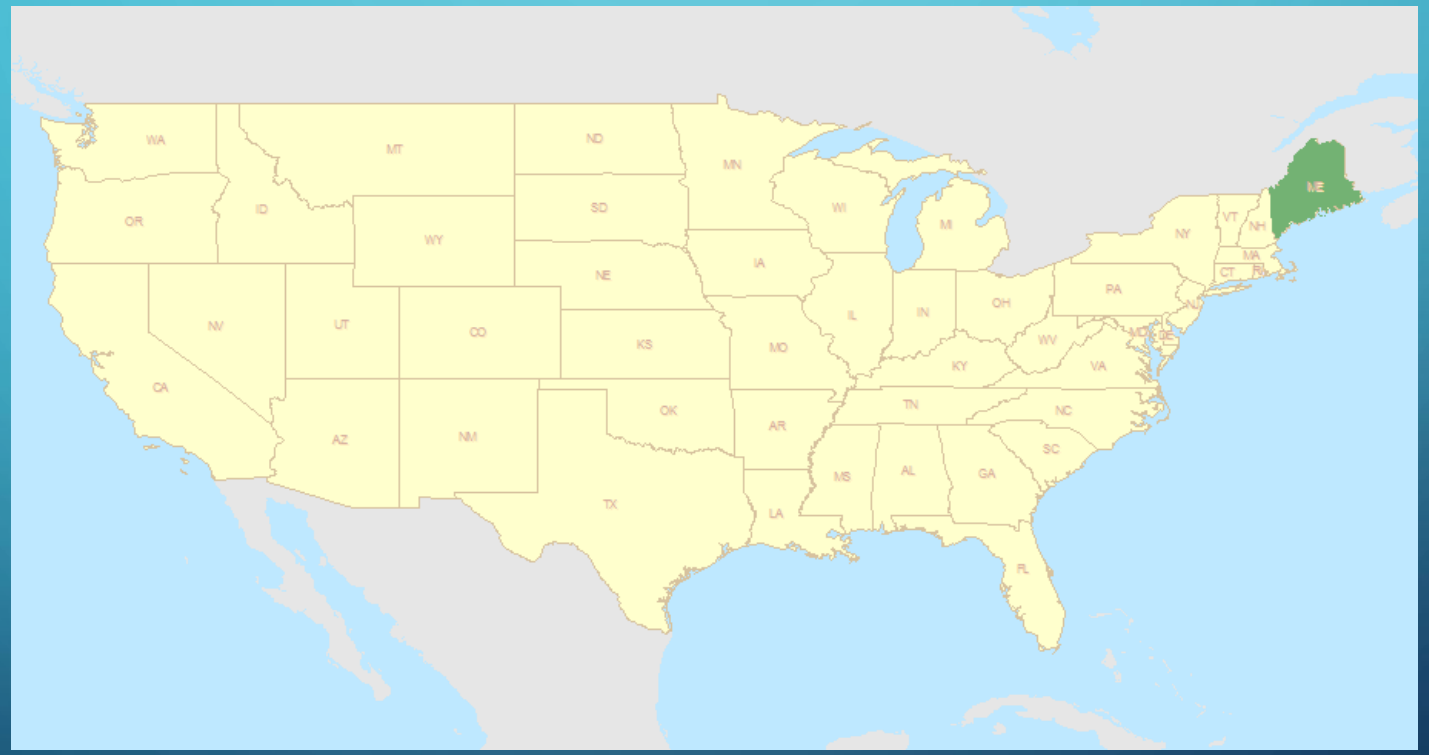
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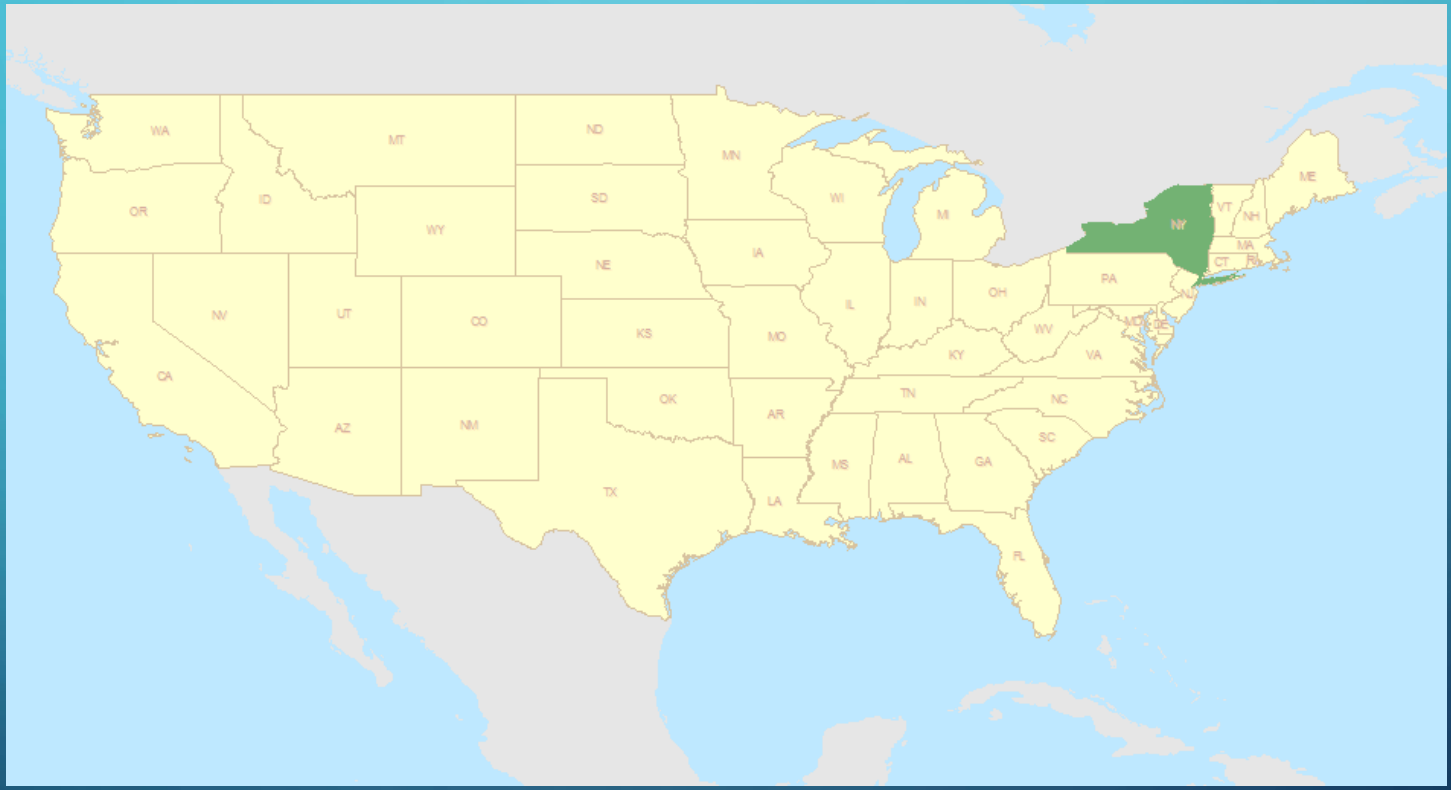
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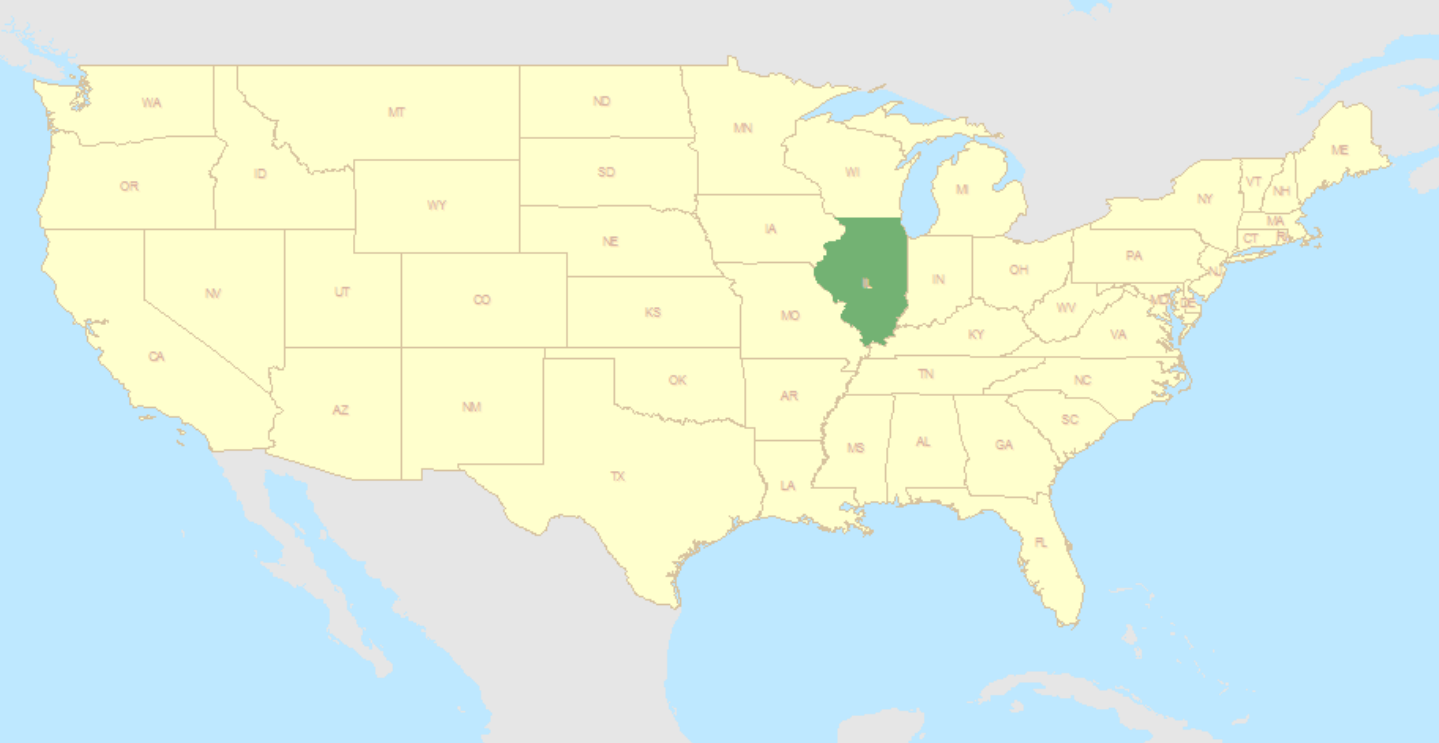
ILLINOIS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CONCLUSIONS

- CRT glass (funnel) is often going to similar outlets as CA. Dispositions for other states include smelting, ADC, disposal, among other uses.
- Panel glass is managed more permissively as non-hazardous waste.
- Regulator oversight is via annual reports
- Collection numbers are emphasized. CRT residual numbers are not.

QUESTIONS? COMMENTS?

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  Jason.Smyth@calrecycle.ca.gov
- Background paper:

http://www.calrecycle.ca.gov/Actions/PublicNoticeDetail.aspx?id=1443&aiid=1311