

Fertilizer Expert Group Sources

Tom Butler, EPA

7/2023

Identify potential sources:

States

- State tonnage reports
- Alternatives

USDA

- Agriculture Research Management Survey (ARMS I)
- Agrochemical application surveys (ARMS II)
- National Resource Inventory - NRCS product
- Conservation Effects Assessment Project

Industry

- The Fertilizer Institute (TFI)
- International Plant Nutrition Institute Canada (IPNI)
- The Mill

States vs AAPFCO

DE, MD, NY, PA, VA, WV

- Quantity comparison: Similar
- Latency: Reduced
- Geographic specificity: Same
- Crop specificity: NA

USDA vs AAPFCO

Agriculture Research Management Survey (ARMS I)

- Quantity comparison: NA
- Latency: NA
- Geographic specificity: National
- Crop specificity: NA

Agrochemical application surveys (ARMS II)

- Quantity comparison: NA
- Latency: Reduced
- Geographic specificity: National with select states
- Crop specificity: Reduced

National Resource Inventory

- Quantity comparison: NA
- Latency: NA
- Geographic specificity: NA
- Crop specificity: NA

Conservation Effects Assessment Project

- Quantity comparison: NA
- Latency: NA
- Geographic specificity: NA
- Crop specificity: NA

USDA vs AAPFCO

Agriculture Research Management Survey (ARMS I)

- Quantity comparison: NA
- Latency: NA
- Geographic specificity: National
- Crop specificity: NA

Agrochemical application surveys (ARMS II)

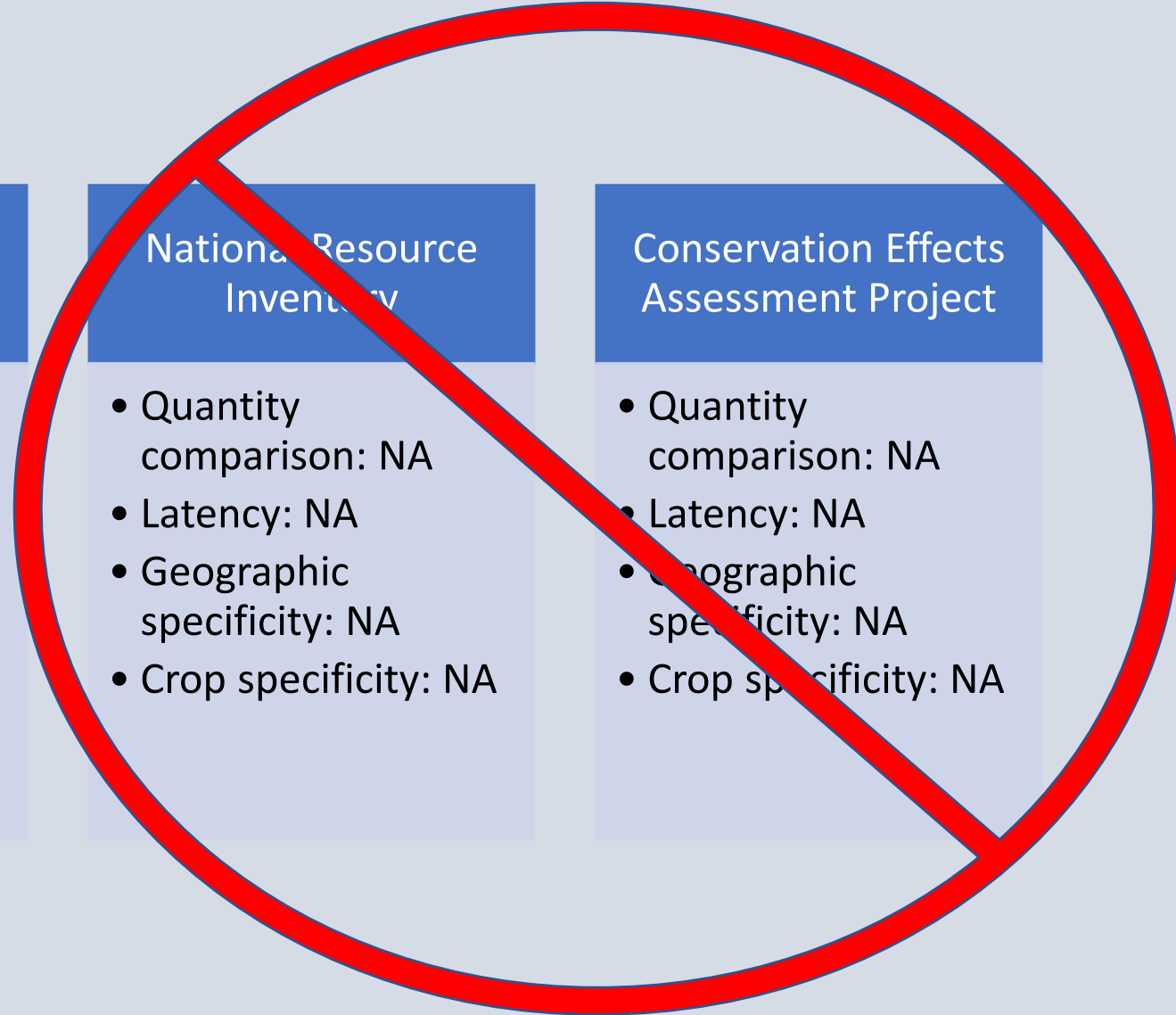
- Quantity comparison: NA
- Latency: Reduced
- Geographic specificity: National with select states
- Crop specificity: Reduced

National Resource Inventory

- Quantity comparison: NA
- Latency: NA
- Geographic specificity: NA
- Crop specificity: NA

Conservation Effects Assessment Project

- Quantity comparison: NA
- Latency: NA
- Geographic specificity: NA
- Crop specificity: NA



Industry

NuGIS (TFI, IPNI)

- Quantity comparison: Based on national averages
- Latency: Same
- Geographic specificity: NA
- Crop specificity: Same

Autoregressions (TFI)

- Quantity comparison: Based on national averages
- Latency: Same
- Geographic specificity: different scale watersheds
- Crop specificity: Same

Company (The Mill)

- Quantity comparison: NA
- Latency: Reduced
- Geographic specificity: Reduced
- Crop specificity: NA

Recommendations Summary:

For Phase 6:

- We should be using direct state reported data
- In order to avoid the minority of states dictating trends thresholds for reporting should be used.
- For states that do not have reported data we should use a percent change from the previous year for reporting states to determine the unknown portion.

For Phase 7 the AMT should:

- Conduct in depth searches for different sales and application data sets.
- Evaluate differences in data processing.

Questions?