

# FERTILIZER: AAPFCO VS. STATE- PROVIDED DATA

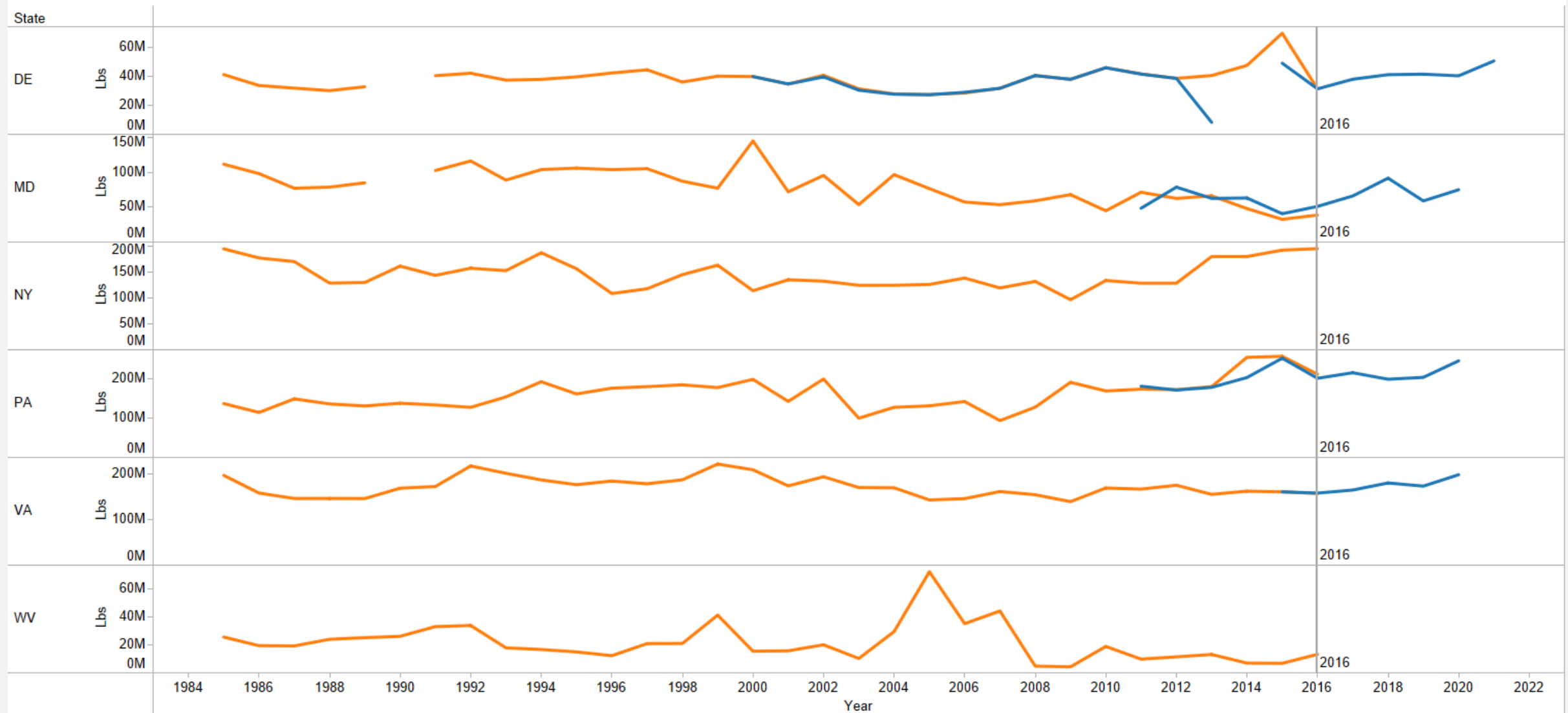
Fertilizer Expert Group

May 1, 2023

## FERTILIZER DESIGNATED AS AGRICULTURAL USE

- Raw data are provided at the county scale, but are shown on the following graphs for the entire state
- Data do NOT include these processes
  - Outlier removal
  - Rolling average
  - Ratio of NASS expenditure of CB Counties/Entire state to parse tons of fertilizer to just the CB counties
- Data are inputs to the model and do not represent the modeled application rate to the land

# Agriculture Fertilizer Comparison Nitrogen

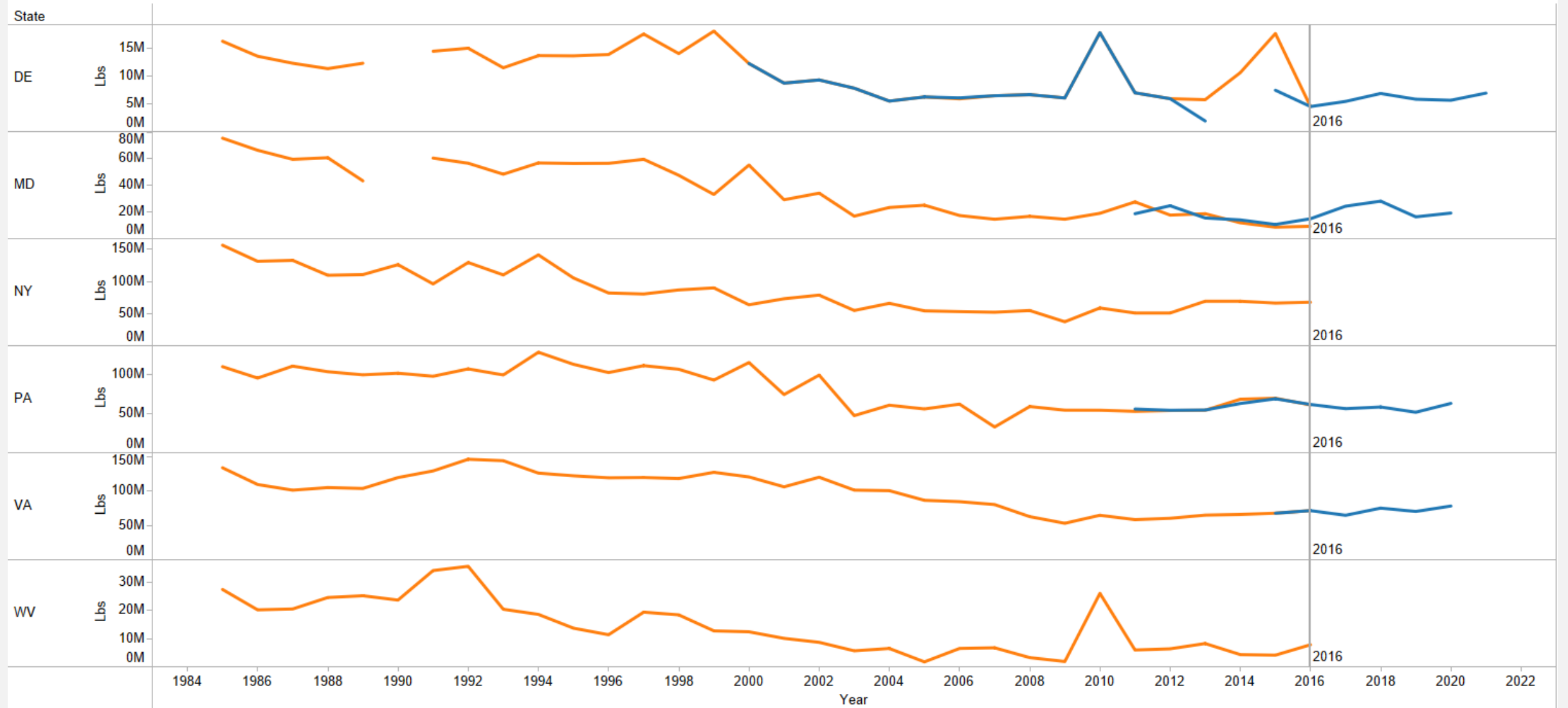


Agriculture shows the entire state. Developed shows only the counties that intersect the Chesapeake Bay watershed.

## Measure Names

- VA Fert Lbs
- PA Fert Lbs
- MD Fert Lbs
- DE Fert Lbs
- AAPFCO Fert Lbs

# Agriculture Fertilizer Comparison P2O5



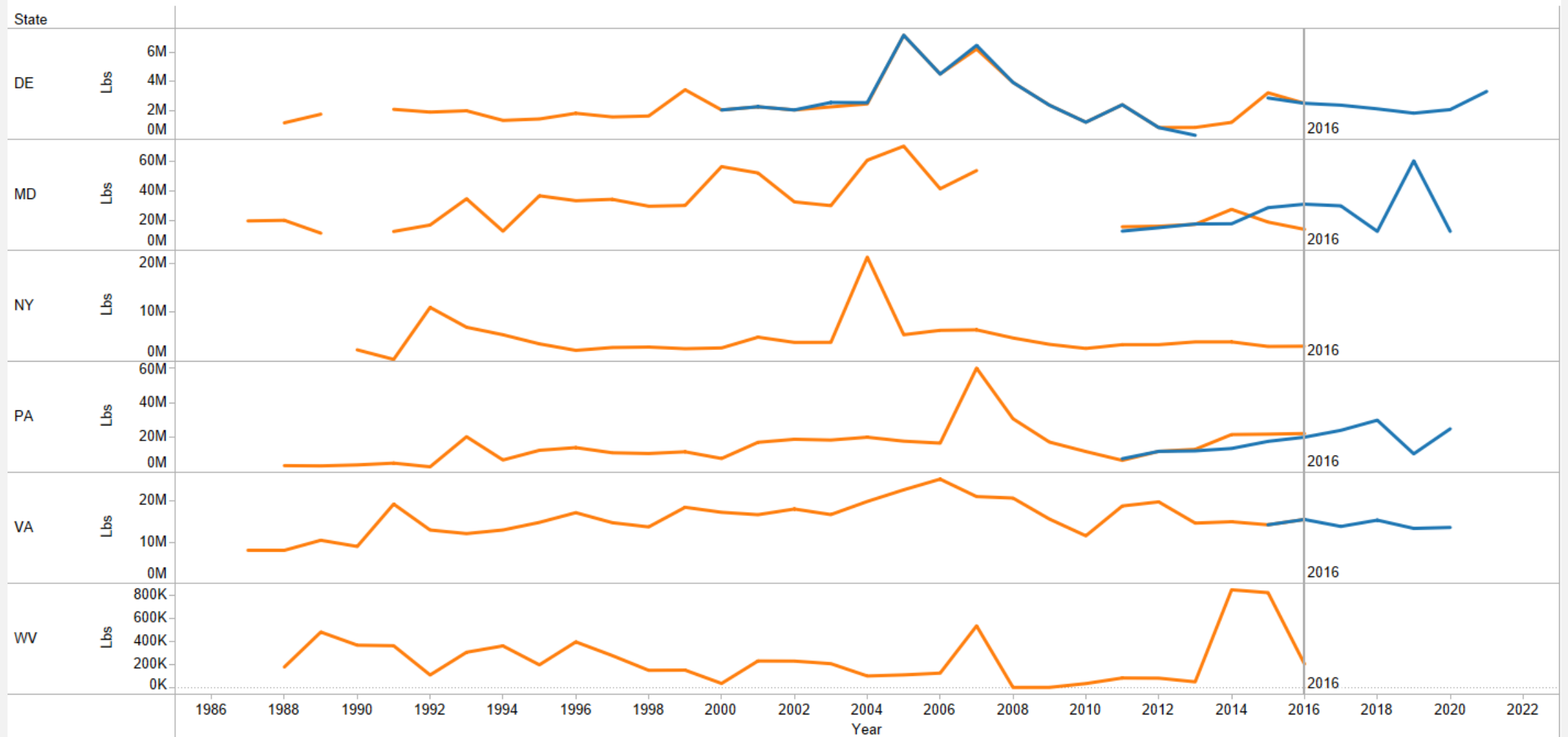
Agriculture shows the entire state. Developed shows only the counties that intersect the Chesapeake Bay watershed.

- Measure Names**
- VA Fert Lbs
  - PA Fert Lbs
  - MD Fert Lbs
  - DE Fert Lbs
  - AAPFCO Fert Lbs

## FERTILIZER DESIGNATED AS URBAN USE

- Raw data are provided at the county scale, and are shown for only the Chesapeake Bay counties
- Data do NOT include these processes
  - Outlier removal
  - Rolling average
  - Projections

# Developed Fertilizer Comparison Nitrogen

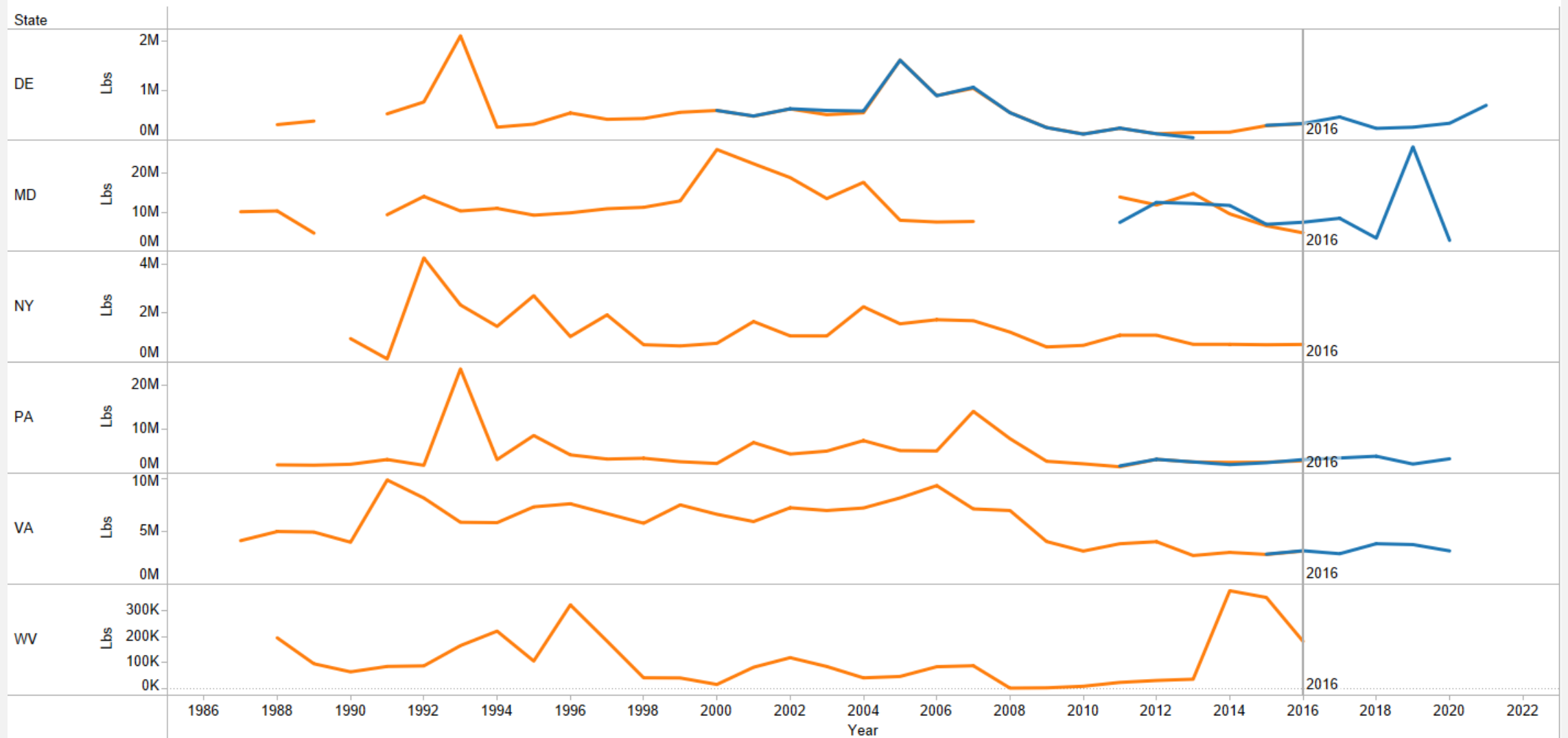


Agriculture shows the entire state. Developed shows only the counties that intersect the Chesapeake Bay watershed.

## Measure Names

- VA Fert Lbs
- PA Fert Lbs
- MD Fert Lbs
- DE Fert Lbs
- AAPFCO Fert Lbs

# Developed Fertilizer Comparison P2O5



Agriculture shows the entire state. Developed shows only the counties that intersect the Chesapeake Bay watershed.

## Measure Names

- VA Fert Lbs
- PA Fert Lbs
- MD Fert Lbs
- DE Fert Lbs
- AAPFCO Fert Lbs

## OPTIONS FOR CONSIDERATION

- Data are needed for the modeling period of 1985 to 2025
- Currently we use AAPFCO for 1990 to 2016 and backcast to 1985 and use same fraction of crop application rate met for years after 2016\*
- Options
  - Continue to use just AAPFCO
  - Use AAPFCO + state-provided data for the years and states that provide the data
  - Use AAPFCO only for years and states where state-provided data is unavailable
  - Years where neither AAPFCO nor state-provided data are available could continue to be held at the same fraction of crop application rate met, anticipated to be 2020 for most states

\* Expected to be 2017 soon