

2022 EPA Emissions Modeling Platform

Rationale for choosing 2022 as the Base Year

- Most recent year with measured air quality data
- Ozone conducive meteorology during the summer of 2022 (and exceedances occurred)
- Relatively low wildfire acres burned
- Minimize complications associated with “atypical events” in recent years
 - 2020 NEI was released this year; 2023 NEI Will not be available until 2026

2022v1 Platform

- Base year data review April 2024
- **Base year finalized data coming June 2024**
- Analytic year data review Summer 2024
- Analytic year finalized data coming Fall 2024

2022v2 Platform

- Base year data review April 2025
- **Base year finalized data coming June 2025**
- Analytic year data review Summer 2025
- Analytic year data finalized Fall 2025

Other Notes:

The EMP would provide most of the needed files for a gridded model emissions update (e.g. AIRPACT-6/7)

Data considerations to continue AIRPACT lineage:

- Spatial Surrogate Updates
- MOVES custom processing
- Fugitive dust removal or processing
- Canada updates

Recent release: SMOKE Version 5.0 (June 2023)

Notable updates since SMOKE v3.5.1 (AIRPACT-5)

- MOVES-related enhancements for pregridded hourly emissions for efficiency
 - Is this similar to Wei's method?
- Enhancements for Farm Emissions Model and Recreational RWC
- Bug fixes for SMOKE executables (e.g. temporal, smkmerge, smkreport)
- SMOKE4AERMOD
- MOVES speed distribution enhancements and RPS inclusion
- EDGAR Global pre-gridded emissions