

2016 Nonroad Collaborative Work Group

22 March 2018

Meeting Agenda

- **EPA Update: MOVES2014b**
- **2016 alpha inventory**
- **Presentations**
 - Mark Janssen, Lake Michigan Air Directors Consortium: *LADCO Experience with Nonroad Improvements*
 - Andy Bollman, North Carolina Department of Environmental Quality: *Emissions Projection Methods for Agriculture and Construction Diesel Nonroad Mobile Emissions Categories*
 - Gil Grodzinsky, Georgia Department of Natural Resources: *Importance of Updated Sector Growth Rates on NONROAD Emissions*
- **Other business**
 - Draft workgroup charge posted for review on the [workgroup wiki](#). Please provide feedback to Sarah and Joseph by April 1.
 - If you intend to supply data for inclusion in the beta nonroad inventory run, please notify Sarah, Joseph, and Alison Eyth
 - **Next meeting: April 26th**. Focus on lawn & garden and recreational marine sectors

Nonroad Work Group Members

Co-leads: Sarah Roberts (EPA OTAQ) and Joseph Jakuta (Ozone Transport Commission)

Members:

Alexandra Catena – DC	Collin Smythe – VT	Peter Verschoor – UT
Alison Eyth – EPA OAQPS	Dale Wells – CO	Rebecca Simpson – CO
Andy Bollman – NC	Gil Grodzinsky – GA	Sonya Lewis-Cheatham – VA
Brian Sullins – AL	James Smith – TN	Susanne Cotty – Pima Co. (AZ)
Brian Timin – EPA OAQPS	Jim Koroniades – NJ	Sylvia Vanderspek – CA
Brian Trowbridge – PA	Kenneth Santlal – MA	Tim Wallace – MD
Chris Bovee – WI	Marc Bennett – MA	Tom Moore – WESTAR
Chris Kite – TX	Mark Janssen – LADCO	Vanessa Crandell-Beck – AK
Chris Rochester – NY	Mike Maleski – OH	

EPA Update: MOVES2014b

- EPA is planning to release a minor MOVES update – MOVES2014b – that will improve the nonroad capabilities of MOVES
- Targeting a summer 2018 release
- MOVES2014b will:
 - Include new nonroad engine population growth factors: state-level, equipment sector-specific annual growth indices from engine population base year(s) to 2040
 - Fix a bug in the nonroad fuel supply: update nonroad marine diesel sulfur to be 15 ppm for 2014 and later (down from 55-56 ppm); harmonize nonroad diesel sulfur with onroad diesel for most calendar years since 2007 (up from 11 ppm)
 - Update emissions for Tier 4 nonroad engines: add new Tier 4 engine technology categories to account for aftertreatment configurations (DPF, SCR); for each category, updated engine population fractions, emission factors, and speciation profiles
- Updates are primarily database-driven, with only minor modifications to the model source code

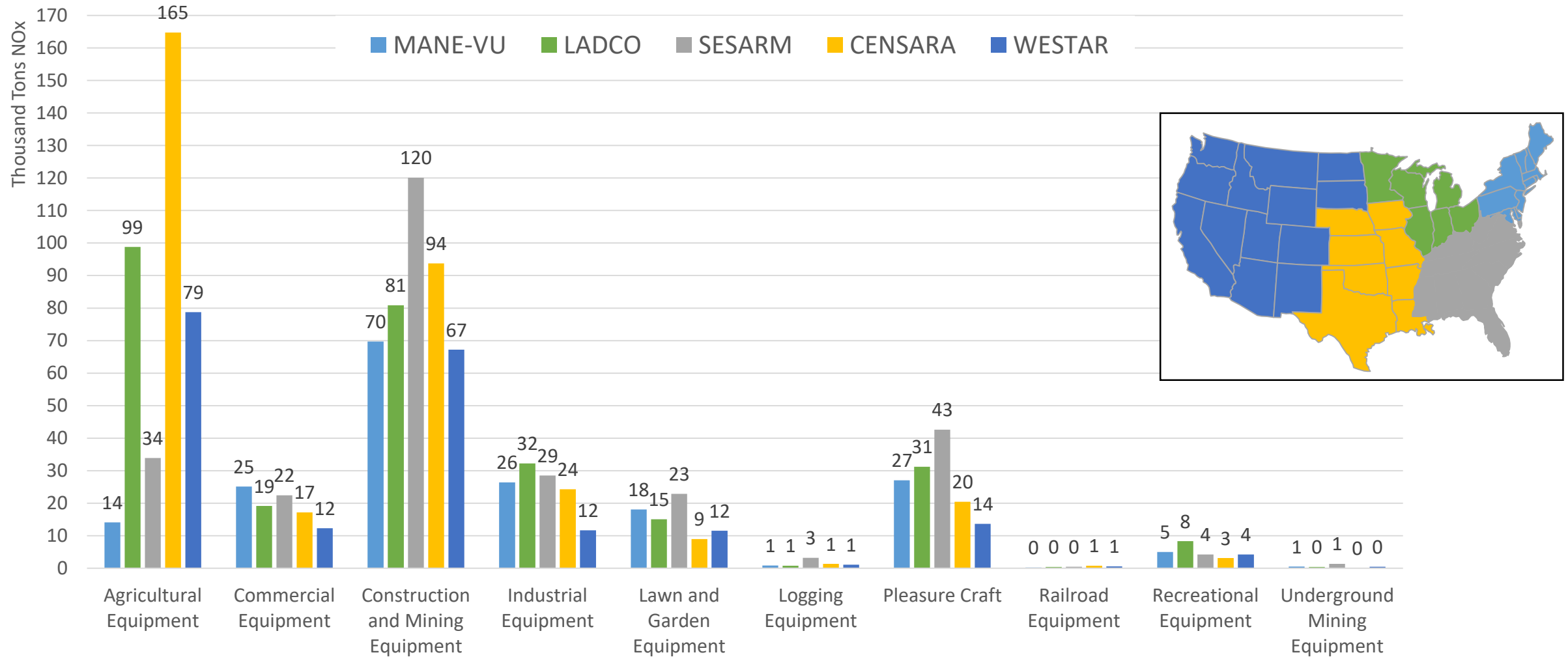
EPA Update: MOVES2014b

- This update will not impact inventories of onroad criteria pollutants and will not be considered a new model for SIP and transportation conformity purposes (no new conformity grace period)
- Updates have been peer-reviewed and EPA is conducting integrated testing of updates
 - Draft nonroad technical reports and peer-review materials will soon be posted on EPA's Science Inventory page: <https://cfpub.epa.gov/si/> (search "MOVES201X")
- Estimated net emission changes between MOVES2014a and MOVES2014b will be shared with the Work Group as they become available
- For more information on the planned updates, please refer to the following MOVES Review Work Group presentations:
 - [Updated NONROAD Equipment Population Growth Rates](#) (9/13/2017)
 - [Update of Engine Categories, Emission Rates and Speciation Profiles for Tier-4 Nonroad Compression-Ignition Engines](#) (12/6/2017)

2016 alpha platform release

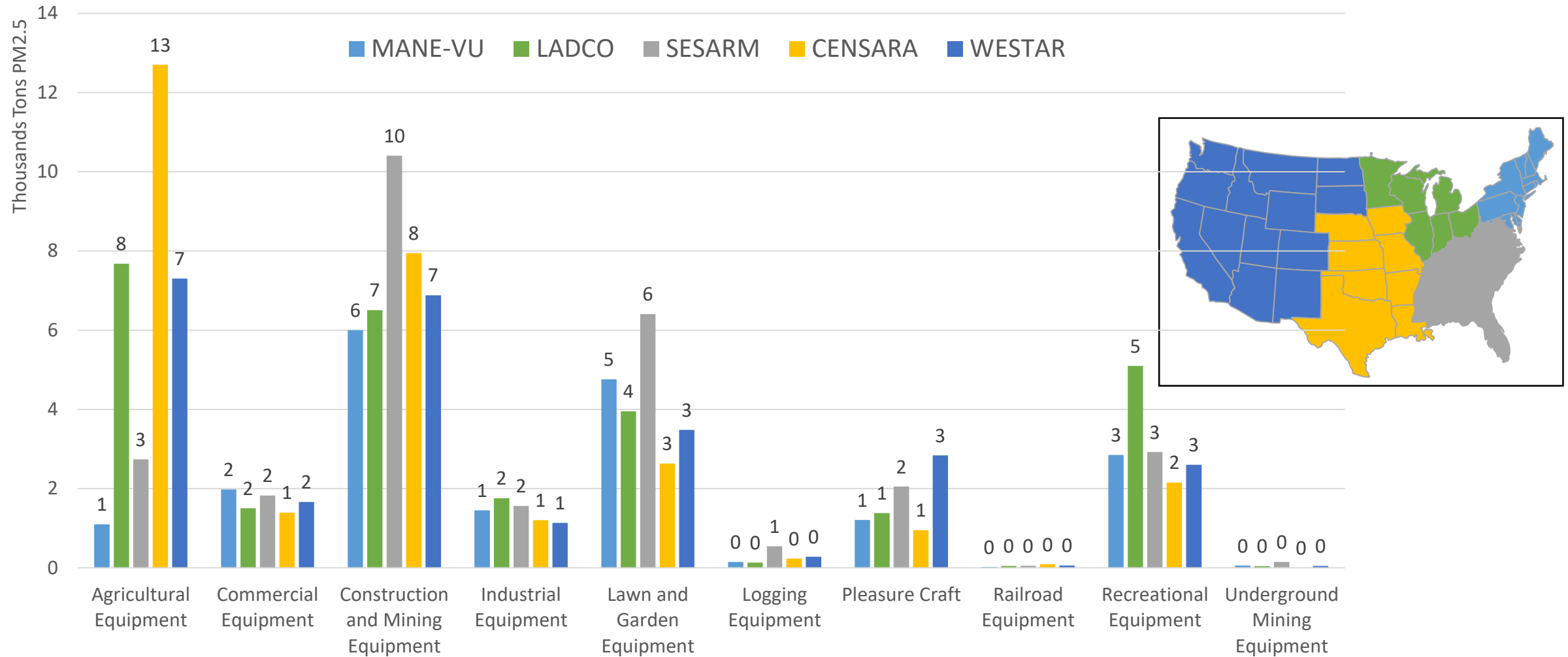
- Emission inputs and scripts for the 2014NElv2-based platforms (2014, 2015, and 2016) are now posted to EPA's FTP site
- Emissions (all sectors):
 - 2014: <ftp://newftp.epa.gov/Air/emismod/2014/v2/2014fd/emissions/>
 - 2015: <ftp://newftp.epa.gov/Air/emismod/2015/alpha/2015fd/emissions/>
 - 2016: <ftp://newftp.epa.gov/Air/emismod/2016/alpha/2016fd/emissions/>
- Ancillary data for all three years: <ftp://newftp.epa.gov/Air/emismod/2016/alpha/>

2016 alpha nonroad inventory: NOx



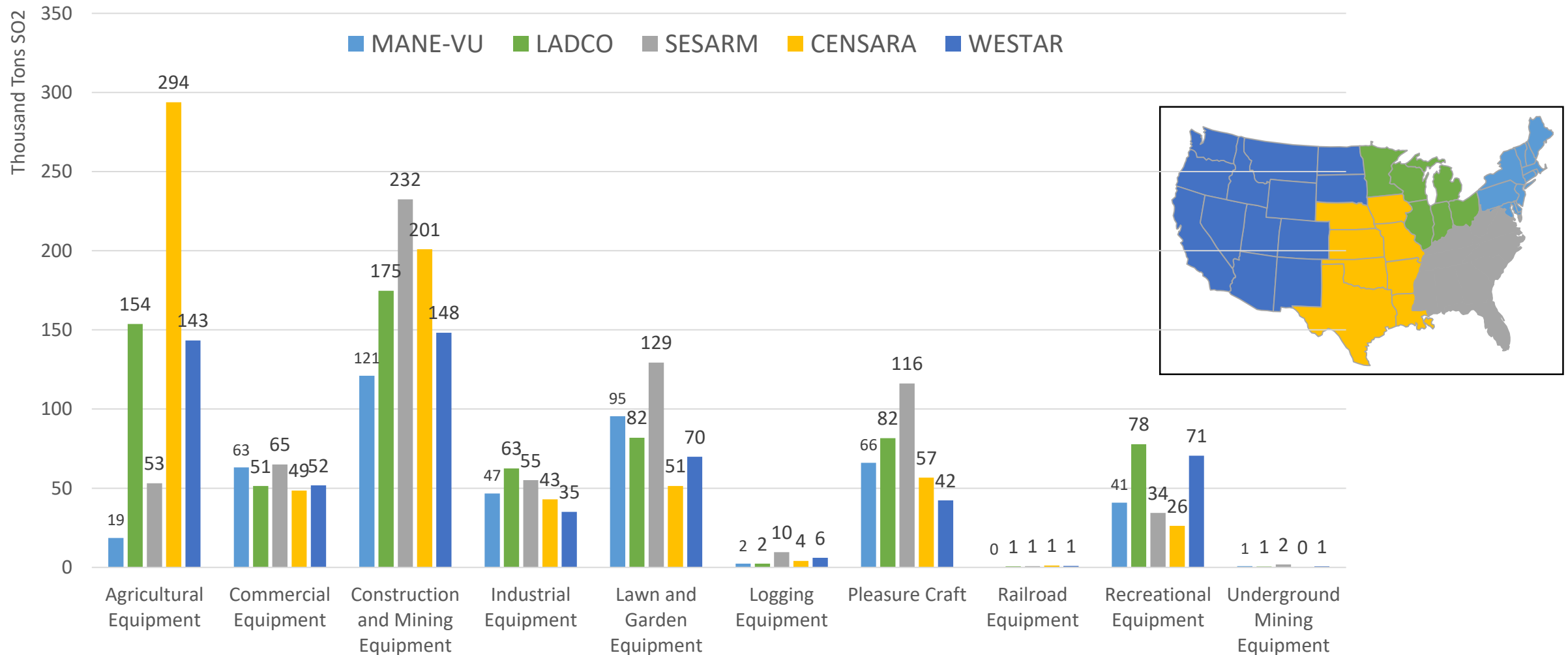
Note: Emissions from Airport Support and Oil Field Equipment are excluded from nonroad inventories

2016 alpha nonroad inventory: PM_{2.5}



Note: Emissions from Airport Support and Oil Field Equipment are excluded from nonroad inventories

2016 alpha nonroad inventory: SO₂



Note: Emissions from Airport Support and Oil Field Equipment are excluded from nonroad inventories

Presentations

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Presentations will be available for download from [Workgroup Wiki](#)