

MOBILE SOURCE EMISSIONS MOBILE6.2 versus MOVES

Preliminary Results


Prepared by: COG/DTP Staff
for the

Metropolitan Washington Air Quality Committee
February 23, 2011

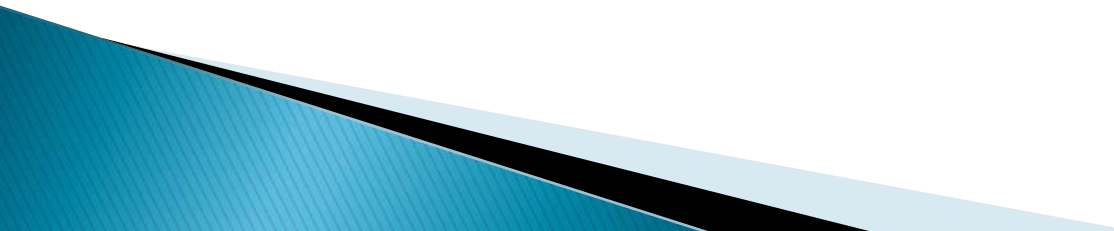
MOVES Model Background

- ✓ **EPA developed software package** for estimating on-road mobile source emissions
- ✓ **Set to replace MOBILE6.2** in March 2012; currently in grace period
- ✓ **First version released in 2004** and undergone several revisions; latest version is MOVES2010a released in August 2010
- ✓ **Grace period ends March 2012;** MOBILE6.2 will be used for the 2011 CLRP

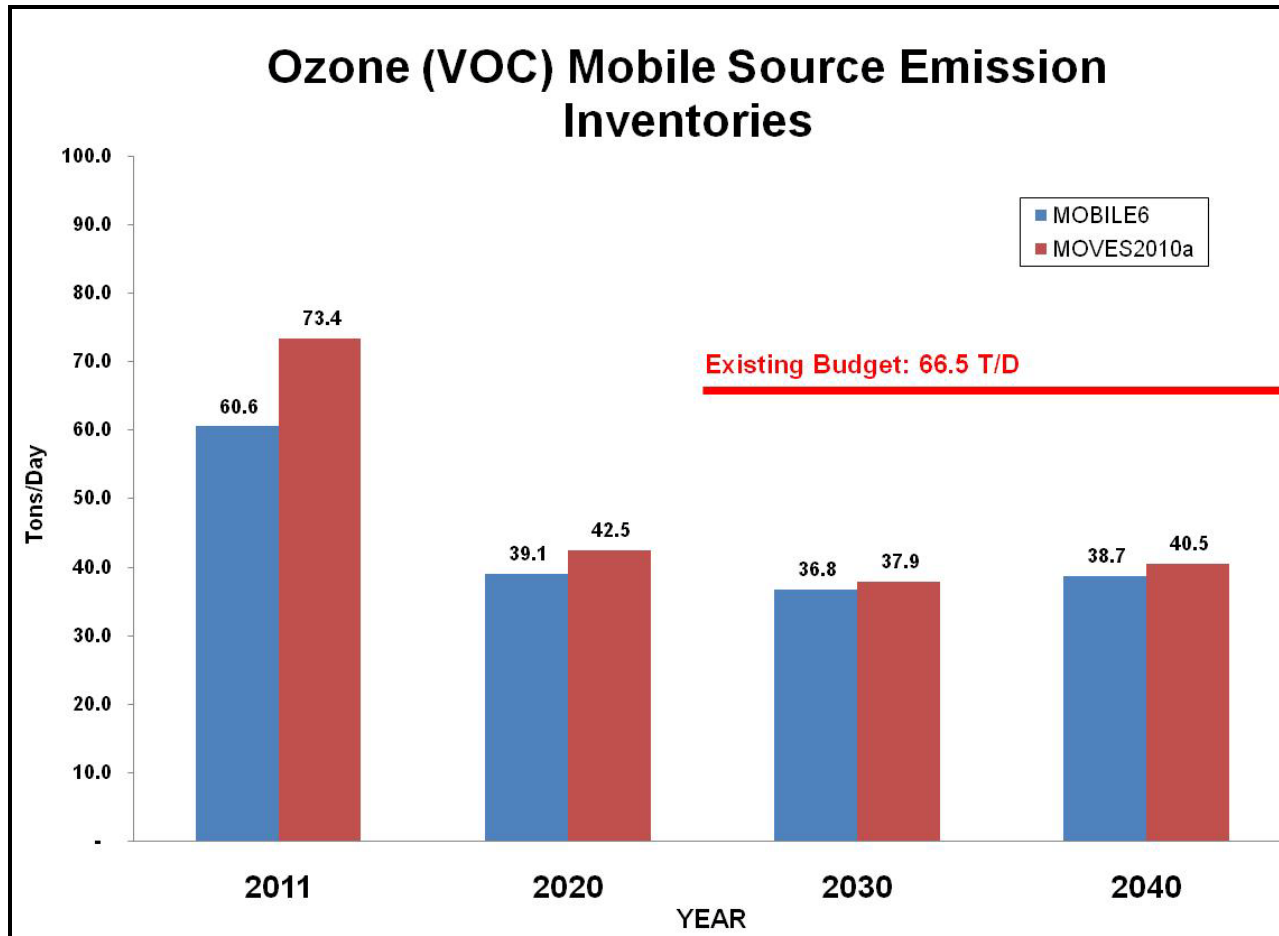
MOVES TASK FORCE

- ✓ **Membership:** state air agencies, state DOTs
 - ✓ **Started:** August 2009
 - ✓ **Goal:** To provide guidance and oversight during the transition from MOBILE6.2 to MOVES
 - ✓ **Achievements:** Guidance in the development of local input data for MOVES; oversight during an extensive period of sensitivity tests
 - ✓ **Final Products:** Comparative assessment of MOVES versus MOBILE6.2 generated emission inventories from the AQC assessment of the 2010 CLRP and FY2011–2016 TIP
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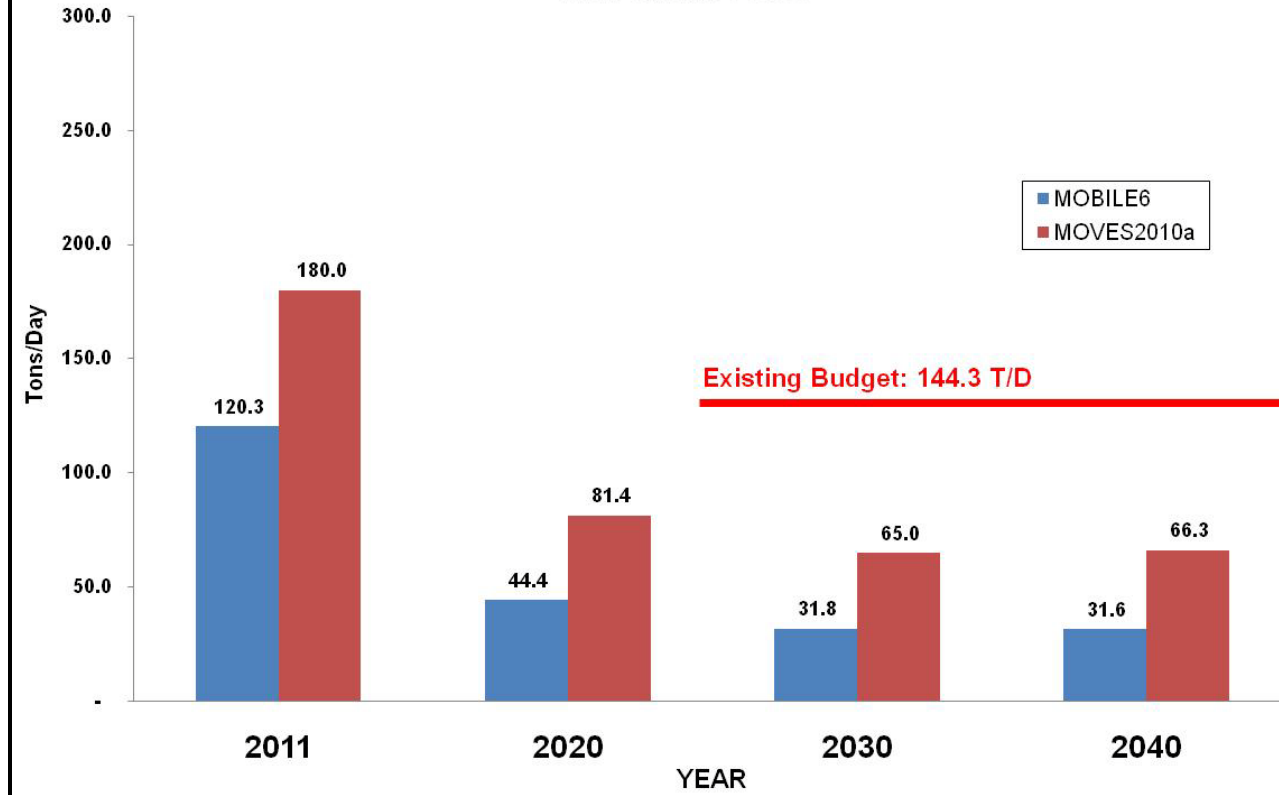
SENSITIVITY TESTS PARAMETERS

- ✓ **Local data inputs** which were developed by DTP/DEP staff and approved by the MTF
 - ✓ **Comparison of 2010 CLRP and FY 2011–2016 TIP MOVES2010a generated emissions against Motor Vehicle Emissions Budgets (MVEBs)** – also known as budgets– contained in the Washington DC–MD–VA 8–Hour Ozone Attainment Plan and PM2.5 Attainment Plan SIPs
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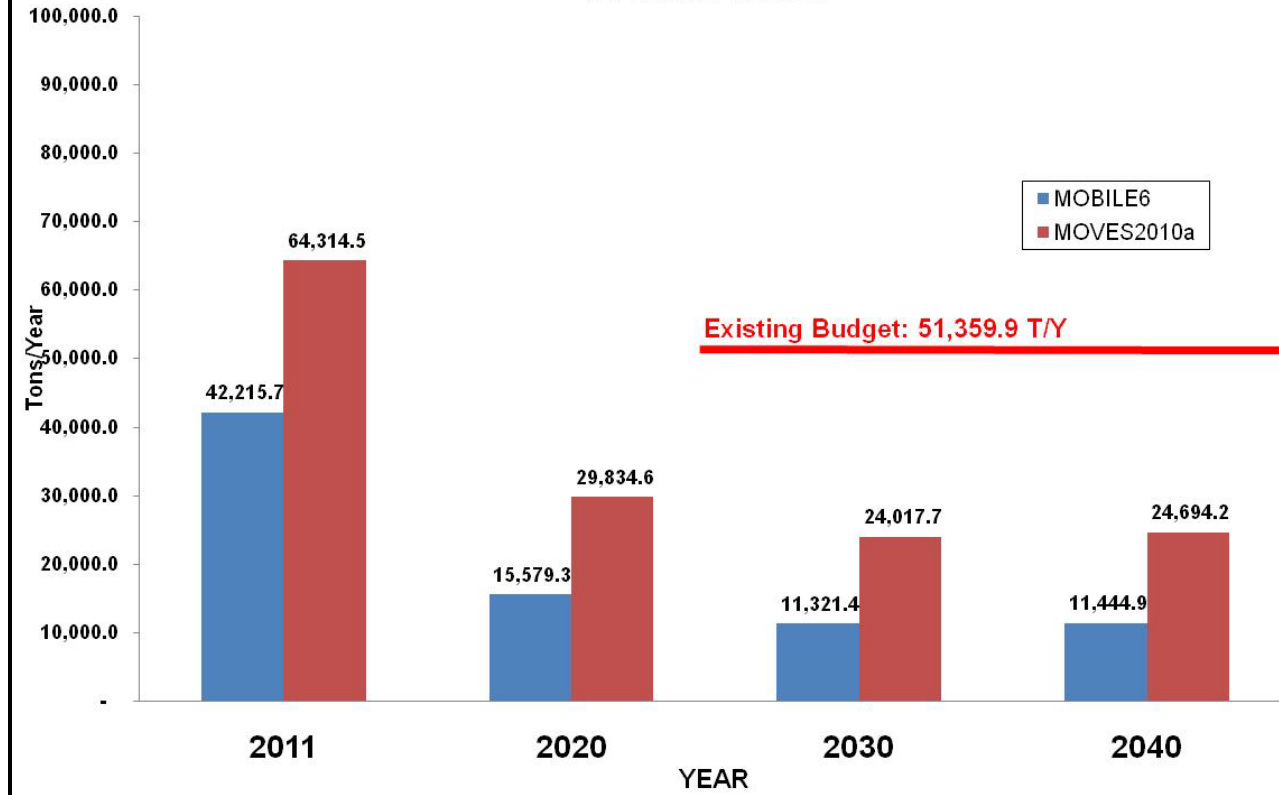
Results



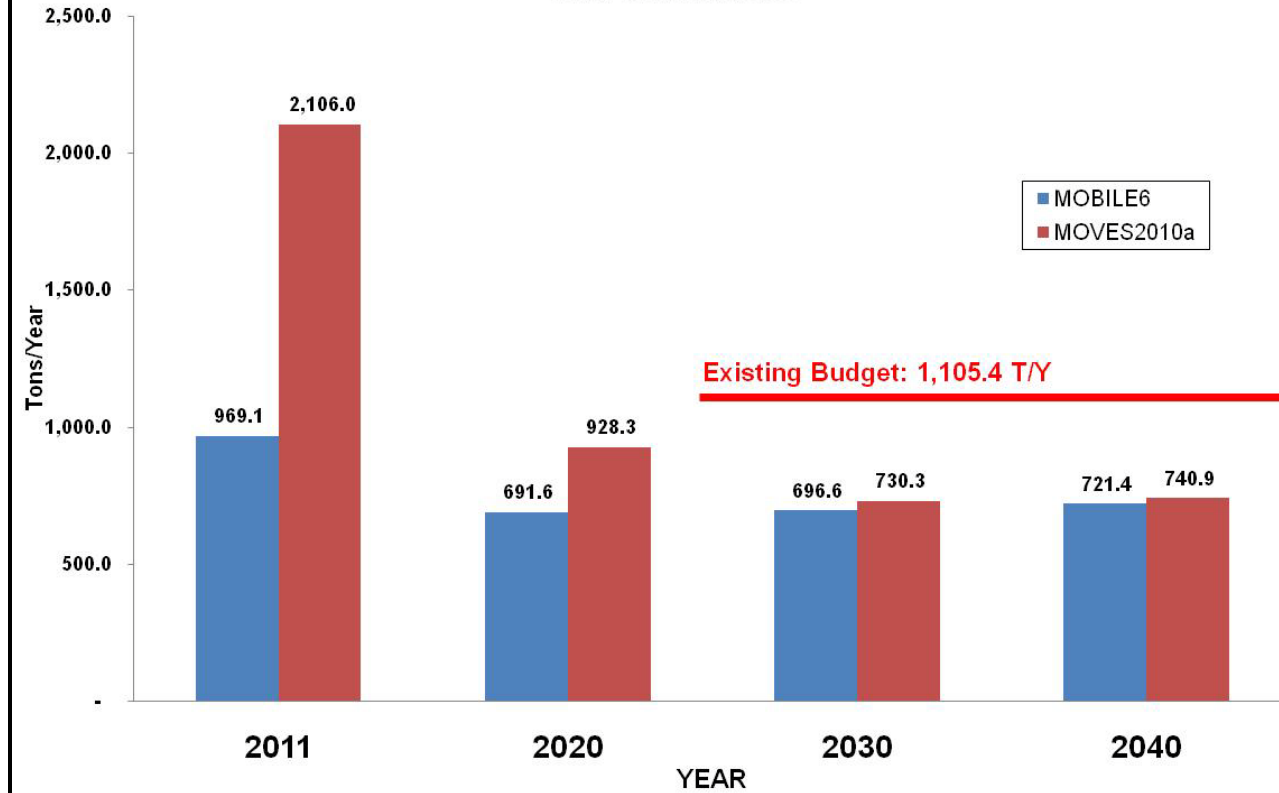
Ozone (NOx) Mobile Source Emission Inventories



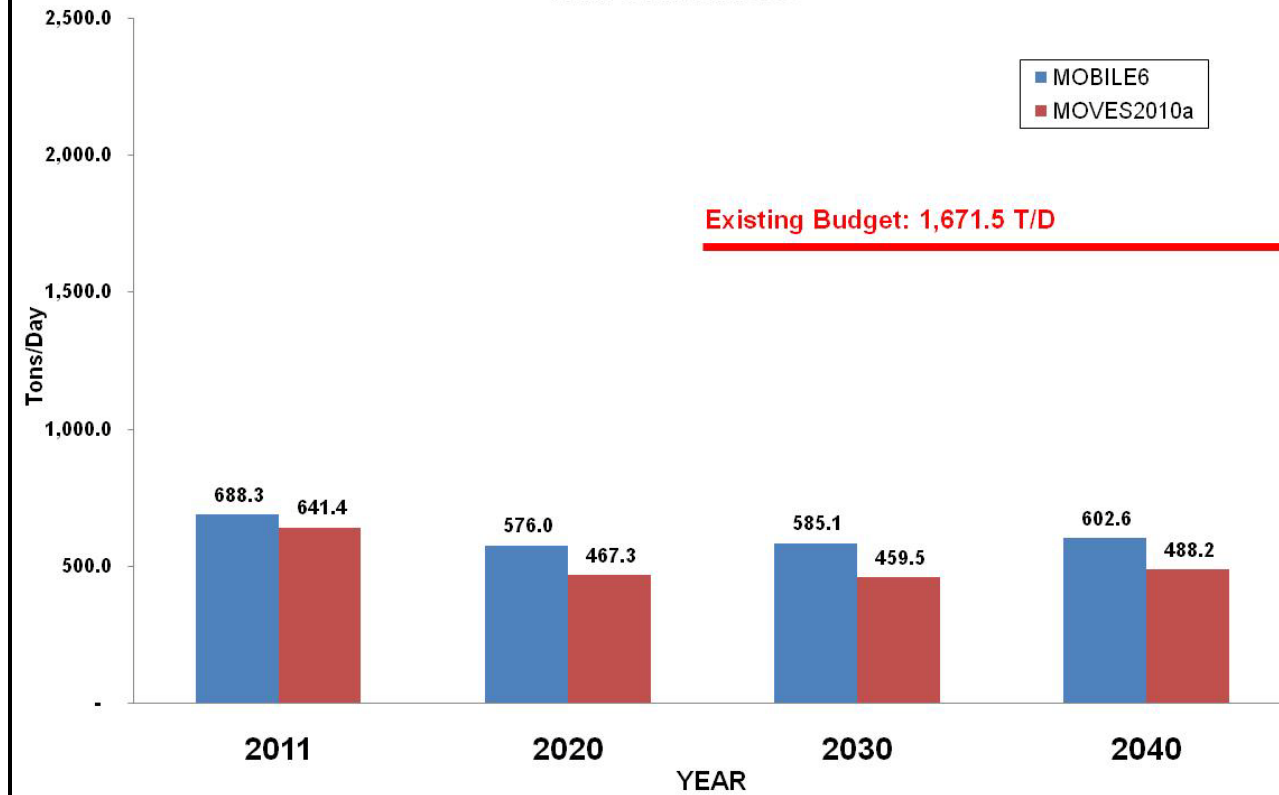
Precursor NOx Mobile Source Emission Inventories



Direct PM_{2.5} Mobile Source Emission Inventories



Winter (CO) Mobile Source Emission Inventories



Conformity Challenges for Direct PM_{2.5} and Precursor NO_x

- The region would not conform to the submitted but unapproved MOBILE6.2 Direct PM_{2.5} and NO_x MVEBs, in the PM_{2.5} Attainment SIP for any analysis year before 2020
- The region would conform to the MVEBs for milestone years 2020, 2030 and 2040

Conformity Challenges for OZONE CRITERIA POLLUTANTS (VOC and NOx)

- If the Transportation Conformity Rule Restructuring Amendments are finalized the first analysis year will be 2017. Under this scenario the region may conform to the existing MOBILE6.2 MVEBs.
- The region would conform to the MVEBs in milestone years 2020, 2030 and 2040

Conformity Challenges for Winter CO

- ▶ The region currently conforms to a maintenance Winter CO budget. Current MOVES2010a generated results indicate we are conforming.

Questions

