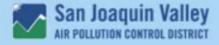
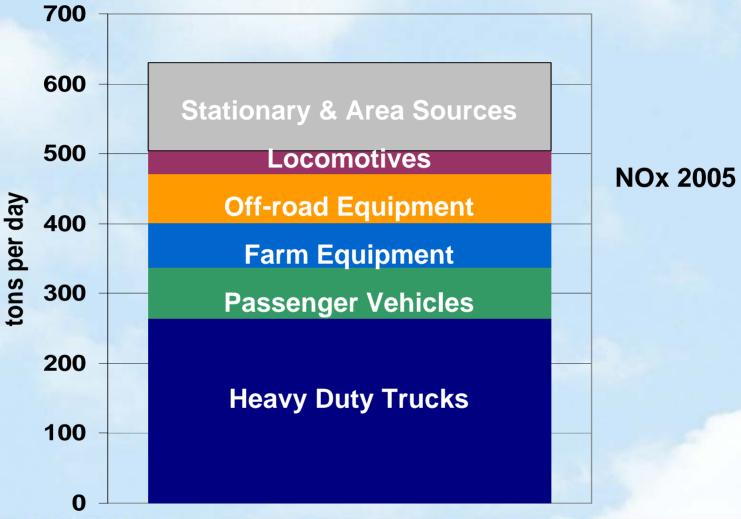
Valley Smog Formation

- Smog Formation
 - Oxides of Nitrogen (NOx) +
 - Volatile Organic Compounds (VOC) +
 - Sunlight and Heat
- Central California Air Quality Studies \$68M
 - Reduce VOC some benefit
 - To meet health std. Reduce the NOx
 - Goal is 160 tons/day NOx





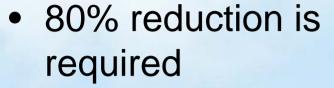
Where does NOx come from?





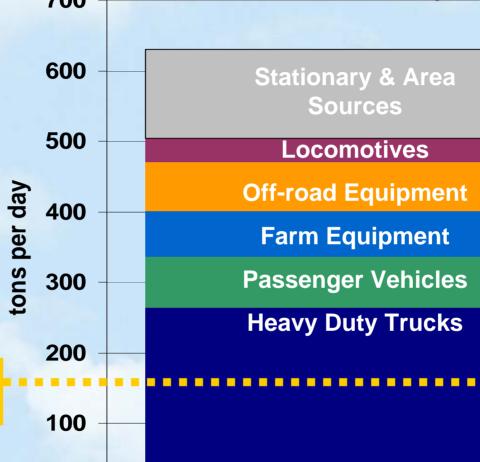


The Goal 160 tons/day



- No silver bullet
- Highest priority is heavy duty trucks

Attainment Goal







The white line is the life line to a nation...

- Merle Haggard, 1978





What can be done to reduce heavyduty truck emissions?

- Fortunately there are things that can be done
 - Replace trucks New trucks have lower emissions
 - Repower trucks New engines have lower emissions
 - Retrofit trucks with new technology
 - Change the way goods are moved



