

# 2008 PM<sub>10</sub> Emissions Inventory

Final Draft

Air Quality  
Technical Advisory Committee

July 29, 2010



WALK MORE USE CFLS MORE CARPOOL MORE  
BIKE MORE RAKE MORE TELECOMMUTE  
MORE DRIVE HYBRIDS MORE CONSOLIDATE  
ERRANDS MORE RIDE PUBLIC TRANSPORTATION  
MORE USE ENERGY EFFICIENT APPLIANCES  
MORE CARRY REUSABLE TOTE BAGS MORE  
CONSIDER SOLAR MORE RUN COLD WATER  
CYCLES MORE USE REUSABLE CONTAINERS  
MORE CONSERVE ELECTRICITY MORE REDUCE  
WOODBURNING MORE RECYCLE MORE USE  
ELECTRIC LAWN AND GARDEN EQUIPMENT  
MORE REFUEL AFTER DARK MORE RIDE  
THE BUS MORE RIDE THE LIGHT RAIL MORE  
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MAKE  
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## Changes from Review Draft

- Draft report presented to AQTAC April 29
- No formal comments received during 30-day review period ending late May
- Technical corrections made to a few source categories
- New mobile source data received from Luke AFB late June

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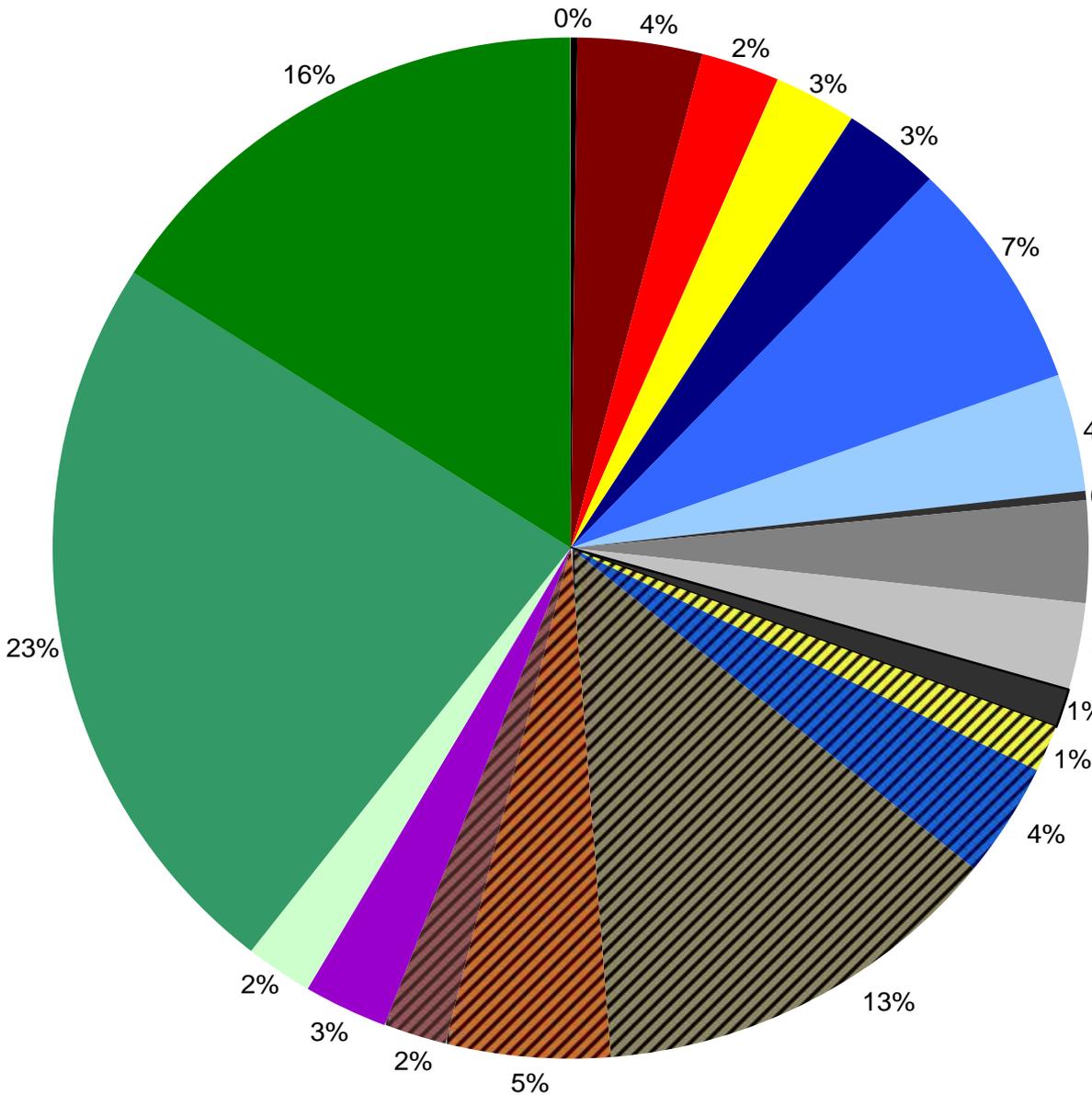
## Key Results

- Overall PM<sub>10</sub> emissions **13% less** than in 2005
  - Construction, stationary sources saw major decreases
  - Increased contributions from paved and unpaved roads, windblown dust
- Improvements in calculation methodologies and data: e.g., windblown dust estimation methodology
- (See hard copy handouts)



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(PM<sub>10</sub> Nonattainment Area Total = 73,410 tons/yr)



## Source Categories

Source Category	%
Major stationary point sources	(<0.5%)
All other industrial processes	(4%)
Fuel combustion and fires	(2%)
Agriculture	(3%)
Construction, residential	(3%)
Construction, commercial	(7%)
Construction, road	(4%)
Other earthmvg: trenching, weed control	(<0.5%)
Travel on unpaved parking lots	(3%)
Offroad rec. vehicles fugitive dust	(3%)
Leaf blowers fugitive dust	(1%)
Windblown: agricultural land	(1%)
Windblown: developing land	(4%)
Windblown: vacant land	(13%)
Windblown: open areas	(5%)
Windblown: S&G, landfills, test tracks	(2%)
Nonroad mobile sources	(3%)
Exhaust/tire wear/brake wear	(2%)
Paved road fugitive dust, including trackout	(23%)
Unpaved road fugitive dust	(16%)

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## Next Steps

- Complete documentation for the 2008 **ozone precursor** inventory (VOC, NO<sub>x</sub>, and CO), for the county and the 8-hr ozone NAA
- Issue agency review draft report mid-August
- Publish final report in September
- Prepare electronic data sets for inclusion in National Emissions Inventory



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WALK MORE USE CFL'S  
ERRANDS MORE RIDE  
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REDUCE WOODBURNING  
MORE RIDE THE BUS

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CONSOLIDATE  
REUSABLE TOTE BAGS  
ELECTRICITY MORE  
REFUEL AFTER DARK  
MORE RAKE MORE

## MCAQD Emissions Inventory Unit (602) 506-6790

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DRIVE HYBRIDS MORE CONSOLIDATE ERRANDS MORE RIDE PUBLIC TRANSPORTATION MORE USE ENERGY EFFICIENT APPLIANCES MORE CARRY REUSABLE TOTE BAGS MORE CONSIDER SOLAR MORE RUN COLD WATER CYCLES MORE USE REUSABLE CONTAINERS MORE CONSERVE ELECTRICITY MORE REDUCE WOODBURNING MORE RECYCLE MORE USE ELECTRIC LAWN AND GARDEN EQUIPMENT MORE REFUEL AFTER DARK MORE RIDE THE BUS MORE WALK MORE