

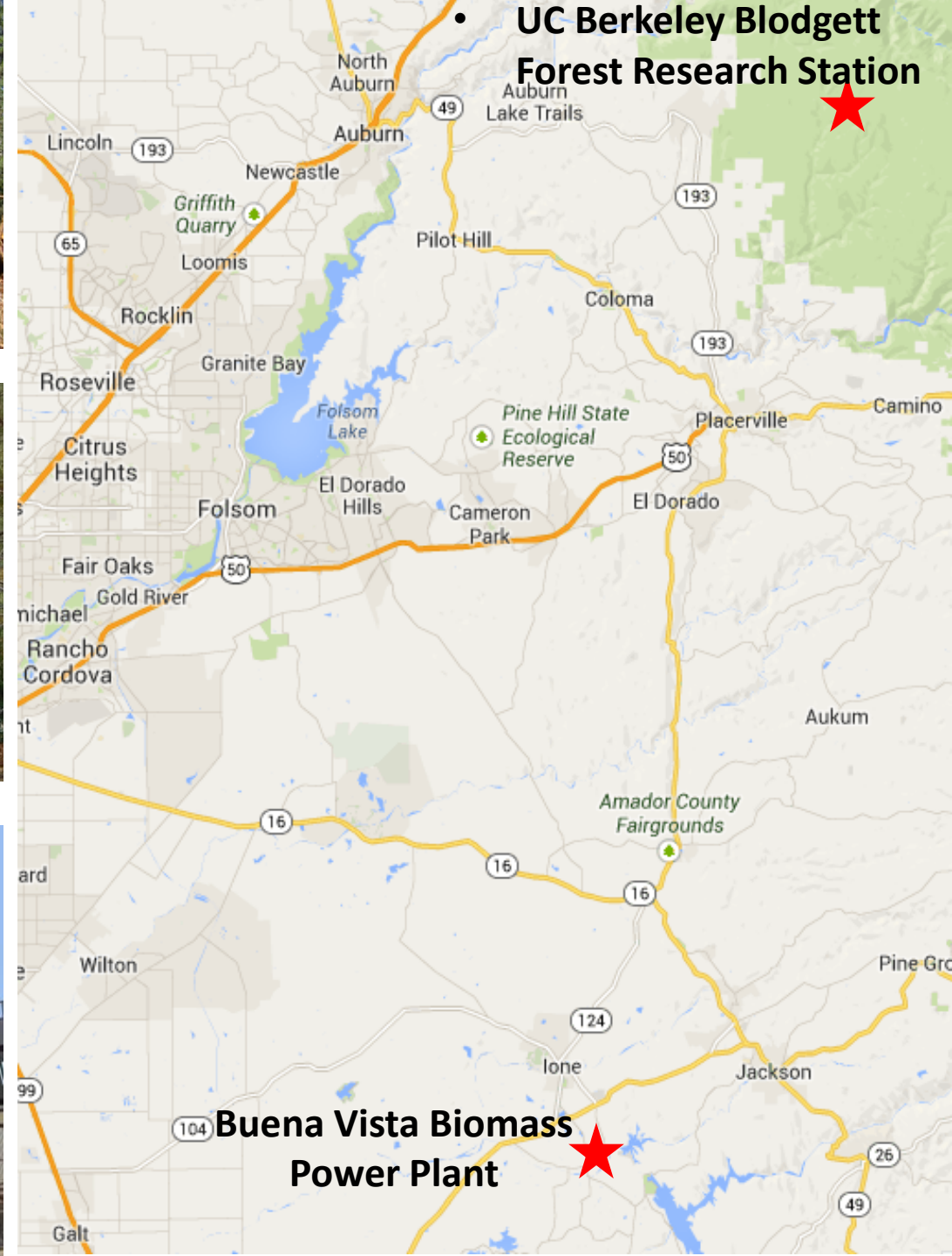


**Biomass Diversion at Blodgett Forest  
Research Station:  
Energy, Economics, and Emissions**

**Bruce Springsteen  
Placer County Air Pollution Control District**

**Biomass Working Group**

**April 15, 2014**



**UC Berkeley Blodgett  
Forest Research Station**



**Buena Vista Biomass  
Power Plant**



# Open Pile Burn Emissions Measurements at Blodgett Forest Research Station









# Open Pile Burn Emissions

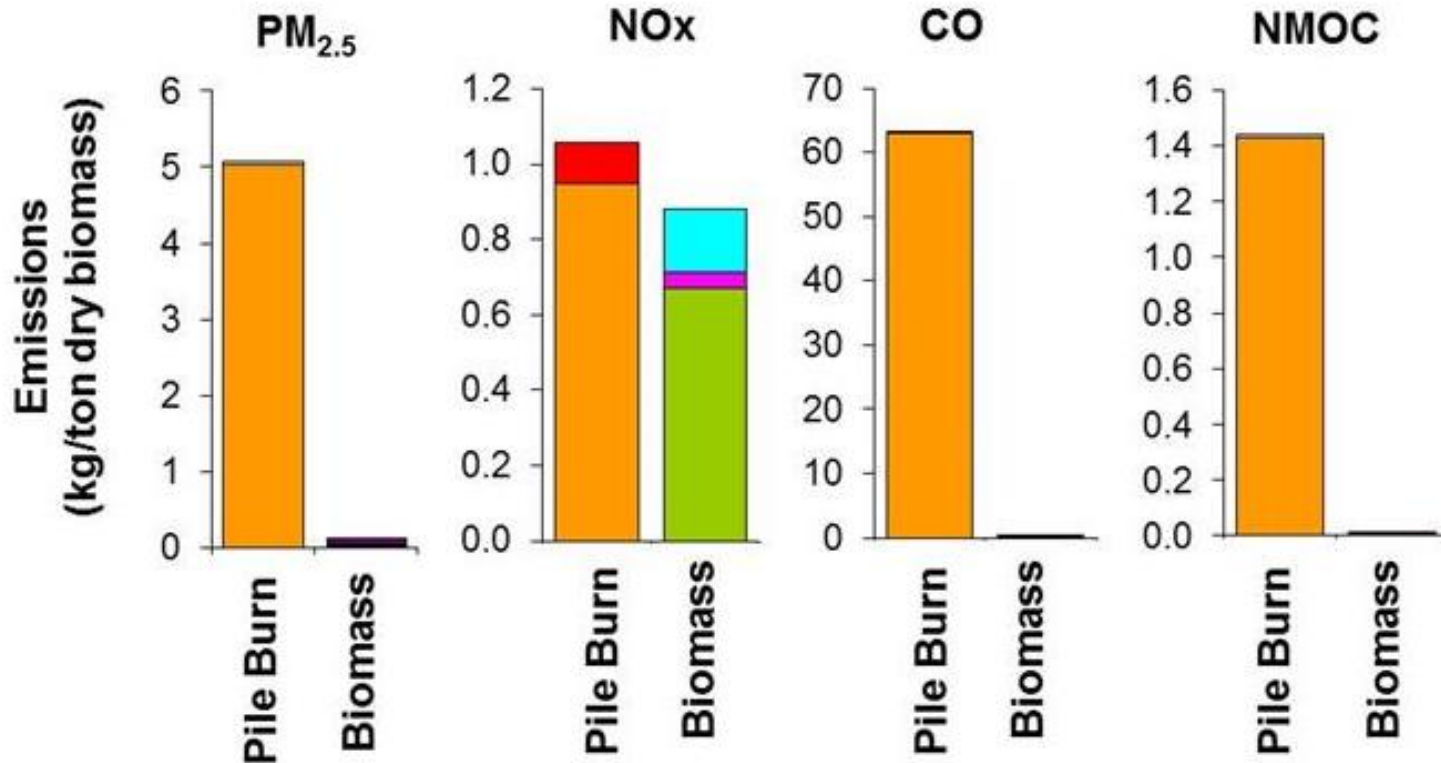
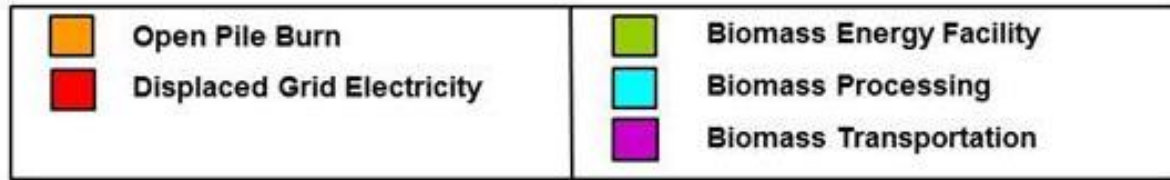
g/kg dry biomass

	Overall Fire		Smoldering
	Blodgett	Literature	Blodgett
CO <sub>2</sub>	1708	1750	1511
CO	66.3	63	158
CH <sub>4</sub>	5.0	3	14
NMOC	1.5	5	7.4
NO <sub>x</sub>	1.1	3	
PM <sub>2.5</sub>	5.3	6.5	5.3
Black Carbon		5% PM	0.86



# Open Burning vs Biomass Energy

## Criteria Air Pollutants





# Open Burning vs Biomass Energy

## Greenhouse Gases

