

**Short Lived Climate Pollutant Black
Carbon Emission Inventory**
Units of Million Metric Tons CO₂e (AR5 20-yr GWP)

Source	2000	2013	2020	2030
Off-Road Mobile	22.1	13.7	9.5	6.4
Aircraft	1.68	1.75	1.93	2.04
Off-Road Equipment	10.20	5.03	2.84	1.38
Farm Equipment	5.46	3.52	2.57	1.23
Commercial Harbor Craft	2.36	1.51	0.77	0.60
Trains	1.17	0.80	0.71	0.52
Other	1.18	1.10	0.73	0.68
On-Road Diesel	17.1	6.7	0.5	0.1
Light Duty	0.23	0.04	0.03	0.00
Heavy and Medium Duty	16.25	6.50	0.50	0.13
Other	0.59	0.17	0.01	0.00
On-Road Gasoline	2.7	0.6	0.5	0.4
Light Duty	2.41	0.49	0.46	0.38
Heavy and Medium Duty	0.28	0.11	0.08	0.06
Other	0.01	0.00	0.00	0.01
Residential Wood Combustion	7.1	5.8	6.1	6.5
Fireplaces	3.56	2.49	2.56	2.65
Woodstoves	3.49	3.34	3.51	3.80
Stationary Fuel Combustion	5.4	4.3	3.7	4.1
Cogeneration and Electricity	2.06	1.76	1.27	1.54
Manufacturing and Industrial	1.46	0.81	0.81	0.81
Service and Commercial	0.74	0.71	0.69	0.76
Other	1.18	1.04	0.97	0.94
Commercial Cooking	1.3	1.4	1.6	1.8
Commercial Charbroiling	0.96	1.05	1.17	1.33
Cooking (Unspecified)	0.26	0.31	0.34	0.39
Deep Fat Frying	0.04	0.04	0.04	0.05
Industrial Processes	1.9	1.0	1.2	1.3
Mineral Processes	0.85	0.53	0.63	0.73
Wood and Paper	0.52	0.28	0.30	0.31
Other	0.58	0.21	0.25	0.29
Miscellaneous Processes	1.9	1.9	2.0	2.1
On-Road Brake and Tire	0.9	0.9	1.1	1.2
Agricultural Burning	4.1	1.1	1.1	1.1
Waste Disposal	0.2	0.3	0.4	0.4
Petroleum Production and Marketing	0.1	0.2	0.2	0.2
Total Emissions (MMTCO₂e)	64.7	38.1	27.9	25.6

Data and documentation available at: www.arb.ca.gov/cc/inventory/slcp/slcp.htm