

Off-Road Equipment Emissions Inventory Analysis



Working Group Meeting No. 3

April 29, 2015

2023 Population Distribution

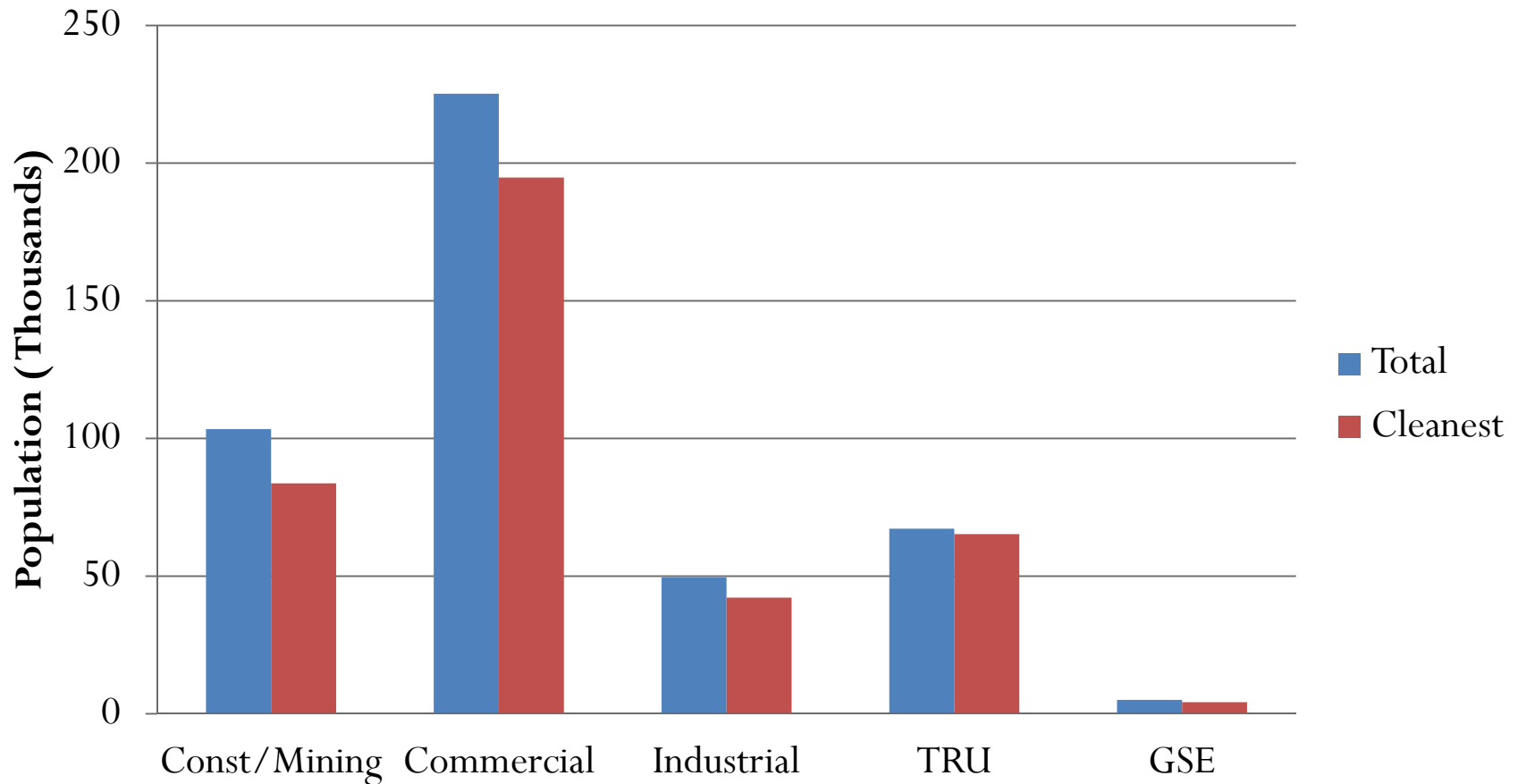
Fuel*	Std.	Const.	Comm.	Industrial*	TRU	GSE*	Total
Diesel	Tier 4	47,224	14,767	14,127	65,238	1,529	142,885
Diesel	Tier 4I	4,670	4,659	1,336	1,719	158	12,542
Diesel	Tier 3	3,412	4,389	574	0	96	8,471
Diesel	Tier 2	4,223	1,205	1,100	280	130	6,938
Diesel	Tier 1	2,795	888	717	13	48	4,461
Diesel	Tier 0	3,069	138	662	0	77	3,946
Diesel	ALL	65,393	26,046	18,516	67,250	2,038	179,243
Gasoline	2010+	36,461	180,012	28,067	0	2,657	247,196
Gasoline	2007	749	9,438	1,472	0	159	11,818
Gasoline	2001	701	8,835	1,378	0	149	11,063
Gasoline	<2001	71	897	140	0	15	1,123
Gasoline	ALL	37,982	199,182	31,056	0	2,979	271,199
ALL	ALL	103,375	225,228	49,572	67,250	5,017	450,442

*Does not include zero emission equipment

NOx Emissions in 2023 (TPD)

Category	2023 Baseline (TPD)	Equal Share (TPD)	Most Stringent (TPD)	Units meeting most stringent	% of Population
Construction / Mining	15.11	5.29	4.43	83,685	81%
Commercial	6.79	2.38	4.70	194,779	86%
Industrial	7.56	2.65	6.84	42,194	85%
TRU	4.05	1.42	4.01	65,238	97%
Airport GSE	1.41	0.49	0.94	4,186	83%
Total	34.92	12.23	20.96	390,081	86%

Equipment Population in 2023



2032 Population Distribution

Fuel	Std.	Const.	Comm.	Industrial*	TRU	GSE*	Total
Diesel	Tier 4	68,768	29,175	19,388	86,024	2,070	205,425
Diesel	Tier 4l	2,265	1,742	568	0	84	4,659
Diesel	Tier 3	1,034	727	150	0	38	1,949
Diesel	Tier 2	1,141	256	268	0	39	1,704
Diesel	Tier 1	622	10	193	0	13	838
Diesel	Tier 0	2,127	0	446	0	52	2,625
Diesel	ALL	75,957	31,909	21,013	86,024	2,296	217,199
Gasoline	2010+	39,226	203,156	33,208	0	3,713	279,303
Gasoline	2007	0	196	0	0	0	196
Gasoline	2001	0	0	0	0	0	0
Gasoline	<2001	0	0	0	0	0	0
Gasoline	ALL	39,226	203,352	33,208	0	3,713	279,499
ALL	ALL	115,183	235,261	54,221	86,024	6,009	496,698

*Does not include zero emission equipment

NOx Emissions in 2032 (TPD)

Category	2032 Baseline (TPD)	Equal Share (TPD)	Most Stringent (TPD)	Units meeting most stringent	% of Population
Construction / Mining	8.35	2.34	4.41	107,994	94%
Commercial	5.09	1.43	5.09	232,331	99%
Industrial	6.37	1.78	6.05	52,596	97%
TRU	4.87	1.36	4.87	86,024	100%
Airport GSE	0.99	0.28	0.86	5,783	96%
Total	25.67	7.19	21.28	484,728	98%

Equipment Population in 2032

