

South Carolina State Ports Authority
 Port of Charleston
 Heavy Duty Vehicle Emissions - 2005

Columbus Street	OFF TERMINAL									ON TERMINAL						TOTAL								
	# Trips	Avg Dist	VMT	Nox	PM10	PM2.5	VOCs	SO2	CO	# Visits (1/2 trips)	Hrs/Visit	Nox	PM10	PM2.5	VOCs	SO2	CO	Nox	PM10	PM2.5	VOCs	SO2	CO	
Loads & Empties	187,257	35	6,636,351	155.34	5.64	5.47	5.75	3.88	40.96															
Bobtails	53,502	11	604,573	14.16	0.51	0.50	0.62	0.35	4.49															
Chassis	26,751	6	160,506	3.57	0.14	0.13	0.21	0.09	1.49															
Subtotal Containers	267,510	27.7	7,401,429	173.06	6.29	6.10	6.58	4.33	46.93	133,755	1.00	30.61	0.90	0.87	2.43	0.55	22.06	203.67	7.19	6.97	9.01	4.88	69.00	
Subtotal Breakbulk	15,392	23.4	360,686	8.31	0.31	0.30	0.32	0.21	2.24	7,696	1.00	1.76	0.05	0.05	0.14	0.03	1.27	10.07	0.36	0.35	0.46	0.24	3.51	
Total	282,902	27.4	7,762,115	181.37	6.59	6.40	6.90	4.54	49.17	141,451	1.00	32.37	0.95	0.92	2.57	0.58	23.33	213.74	7.54	7.32	9.47	5.12	72.50	

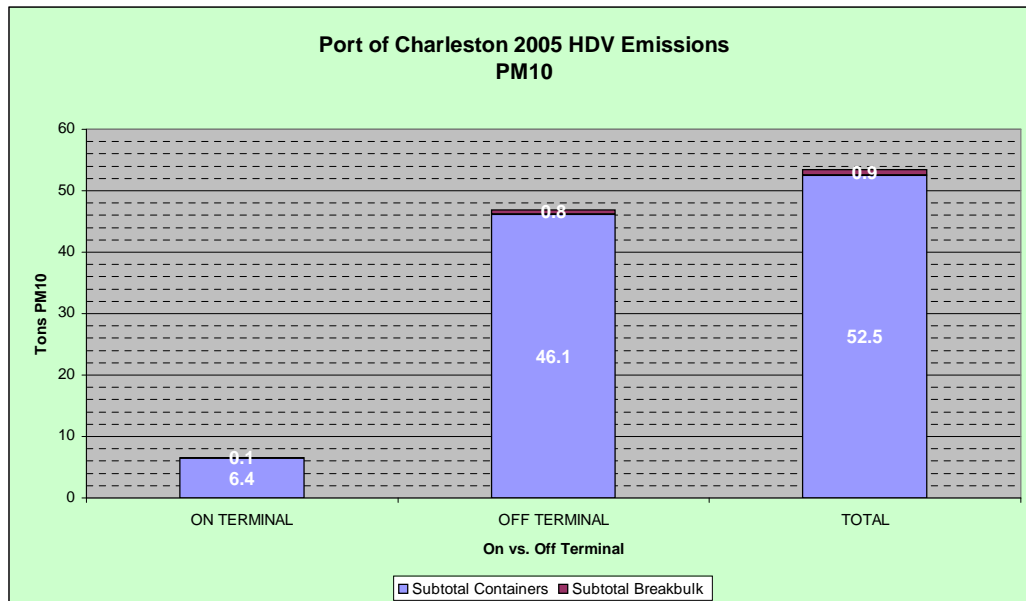
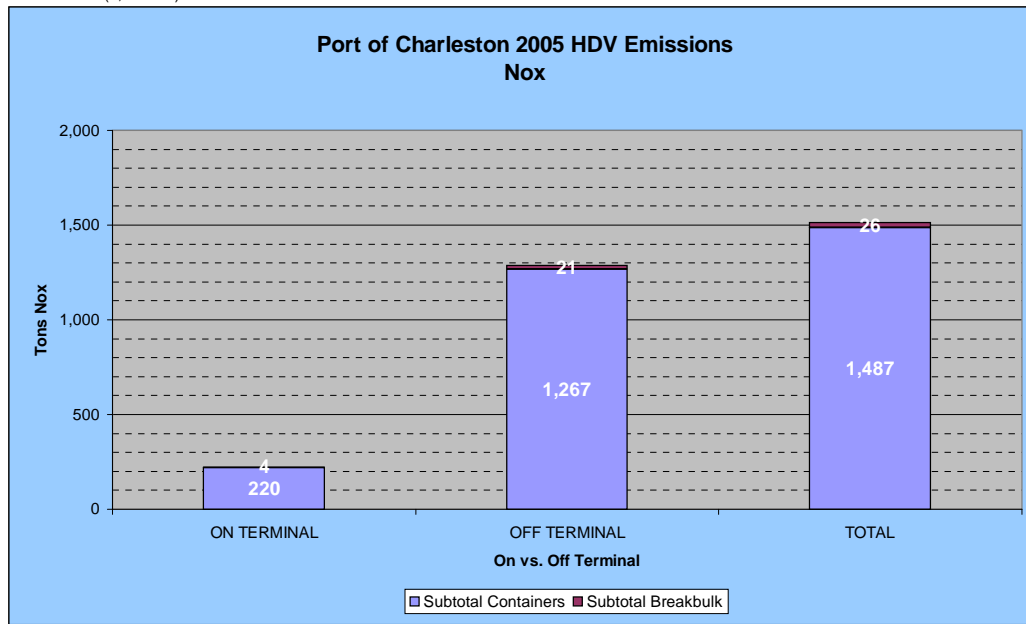
North Charleston	OFF TERMINAL									ON TERMINAL						TOTAL								
	# Trips	Avg Dist	VMT	Nox	PM10	PM2.5	VOCs	SO2	CO	# Visits (1/2 trips)	Hrs/Visit	Nox	PM10	PM2.5	VOCs	SO2	CO	Nox	PM10	PM2.5	VOCs	SO2	CO	
Loads & Empties	305,306	28	8,598,497	201.27	7.30	7.09	7.61	5.03	54.37															
Bobtails	87,230	7	588,805	13.79	0.50	0.49	0.70	0.34	5.10															
Chassis	43,615	6	239,884	5.36	0.20	0.20	0.32	0.14	2.30															
Subtotal Containers	436,152	21.6	9,427,186	220.43	8.01	7.77	8.64	5.52	61.76	218,076	1.00	49.91	1.47	1.42	3.96	0.89	35.97	270.34	9.47	9.19	12.60	6.41	97.73	
Subtotal Breakbulk	1,700	18.4	31,308	0.72	0.03	0.03	0.03	0.02	0.20	850	1.00	0.19	0.01	0.01	0.02	0.00	0.14	0.91	0.03	0.03	0.04	0.02	0.34	
Total	437,852	21.6	9,458,494	221.15	8.04	7.79	8.67	5.53	61.96	218,926	1.00	50.10	1.47	1.43	3.97	0.90	36.11	271.25	9.51	9.22	12.64	6.43	98.07	

Union Pier	OFF TERMINAL									ON TERMINAL						TOTAL								
	# Trips	Avg Dist	VMT	Nox	PM10	PM2.5	VOCs	SO2	CO	# Visits (1/2 trips)	Hrs/Visit	Nox	PM10	PM2.5	VOCs	SO2	CO	Nox	PM10	PM2.5	VOCs	SO2	CO	
Loads & Empties	0 #DIV/0!		0	0.00	0.00	0.00	0.00	0.00	0.00															
Bobtails	0 #DIV/0!		0	0.00	0.00	0.00	0.00	0.00	0.00															
Chassis	0 #DIV/0!		0	0.00	0.00	0.00	0.00	0.00	0.00															
Subtotal Containers	0 #DIV/0!		0	0.00	0.00	0.00	0.00	0.00	0.00	0	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Subtotal Breakbulk	16,598	24.4	405,544	9.34	0.34	0.33	0.36	0.24	2.50	8,299	1.00	1.90	0.06	0.05	0.15	0.03	1.37	11.24	0.40	0.39	0.51	0.27	3.87	
Total	16,598	24.4	405,544	9.34	0.34	0.33	0.36	0.24	2.50	8,299	1.00	1.90	0.06	0.05	0.15	0.03	1.37	11.24	0.40	0.39	0.51	0.27	3.87	

Wando Welch	OFF TERMINAL									ON TERMINAL						TOTAL								
	# Trips	Avg Dist	VMT	Nox	PM10	PM2.5	VOCs	SO2	CO	# Visits (1/2 trips)	Hrs/Visit	Nox	PM10	PM2.5	VOCs	SO2	CO	Nox	PM10	PM2.5	VOCs	SO2	CO	
Loads & Empties	850,578	38.3	32,604,371	763.16	27.70	26.87	28.04	19.07	199.78															
Bobtails	243,022	13.5	3,280,802	76.81	2.79	2.70	3.25	1.92	23.37															
Chassis	121,511	12.8	1,549,268	33.48	1.32	1.28	1.72	0.91	11.76															
Subtotal Containers	1,215,112	30.8	37,434,441	873.45	31.80	30.85	33.01	21.90	234.91	607,556	1.00	139.05	4.08	3.96	11.03	2.49	100.21	#####	35.89	34.81	44.04	24.39	335.12	
Subtotal Breakbulk	4,868	27.1	131,842	3.04	0.11	0.11	0.12	0.08	0.81	2,434	1.00	0.56	0.02	0.02	0.04	0.01	0.40	3.60	0.13	0.12	0.16	0.09	1.21	
Total	1,219,980	30.8	37,566,283	876.49	31.91	30.96	33.13	21.98	235.72	609,990	1.00	139.60	4.10	3.98	11.07	2.50	100.61	#####	36.01	34.93	44.20	24.48	336.33	

Port of Charleston	OFF TERMINAL									ON TERMINAL						TOTAL								
	# Trips	Avg Dist	VMT	Nox	PM10	PM2.5	VOCs	SO2	CO	# Visits (1/2 trips)	Hrs/Visit	Nox	PM10	PM2.5	VOCs	SO2	CO	Nox	PM10	PM2.5	VOCs	SO2	CO	
Loads & Empties	1,343,142	35.6	47,839,219	1,119.76	40.64	39.42	41.40	27.99	295.11															
Bobtails	383,755	11.7	4,474,180	104.76	3.80	3.69	4.57	2.62	32.95															
Chassis	191,877	10.2	1,949,657	42.41	1.66	1.61	2.25	1.14	15.55															
Subtotal Containers	1,918,774	28.3	54,263,056	1,266.94	46.10	44.72	48.23	31.75	343.60	959,387	1.00	219.57	6.45	6.25	17.42	3.93	158.24	#####	52.55	50.97	65.65	35.68	501.85	
Subtotal Breakbulk	38,558	24.1	929,380	21.41	0.79	0.77	0.82	0.54	5.75	19,279	1.00	4.41	0.13	0.13	0.35	0.08	3.18	25.82	0.92	0.89	1.17	0.62	8.93	
Total	1,957,332	28.2	55,192,437	1,288.35	46.89	45.48	49.05	32.29	349.35	978,666	1.00	223.98	6.58	6.38	17.77	4.01	161.42	#####	53.47	51.86	66.82	36.30	510.77	

All emissions in short tons (2,000 lbs)



Columbus Street Heavy Duty Vehicles

Container Truck Visits per Year **133,755** <- from cargo / truck trip analysis
 Container Truck Trips 267,510

Breakbulk Visits **7,696** <- from cargo / truck trip analysis
 Breakbulk Truck Trips 15,392

Road Trucks on-terminal

Container Truck Turn Time	1 hrs	Arriving Trucks	annual hrs	Hourly Emission Factors						Emissions (short tons)						
				Nox g/hr	Exhaust PM10 gr/hr	Exhaust PM 2.5 gr/hr	VOCs gr/hr	SO2 gr/hr	CO gr/hr	Nox	PM10	PM2.5	VOCs	SO2	CO	
Creep Idle	20%	0.2 hrs/truck arrival	133,755	26,751	135.00	3.68	3.57	8.01	1.33	85.46	3.98	0.11	0.11	0.24	0.04	2.52
stop idle	20%	0.2 hrs/truck arrival	133,755	26,751	135.00	3.68	3.57	8.01	1.33	85.46	3.98	0.11	0.11	0.24	0.04	2.52
moving (10mph)	60%	0.6 hrs/truck arrival	133,755	80,253	256.03	7.71	7.48	22.11	5.31	192.41	22.65	0.68	0.66	1.96	0.47	17.02
Total per truck arrival (truck visit)	1.00 Truck Turn time		133,755	133,755							30.61	0.90	0.87	2.43	0.55	22.06

Breakbulk Truck Turn Time	1 hrs	Arriving Trucks	annual hrs	Hourly Emission Factors						Emissions (short tons)						
				Nox g/hr	Exhaust PM10 gr/hr	Exhaust PM 2.5 gr/hr	VOCs gr/hr	SO2 gr/hr	CO gr/hr	Nox	PM10	PM2.5	VOCs	SO2	CO	
Creep Idle	20%	0.2 hrs/truck arrival	7,696	1,539	135.00	3.68	3.57	8.01	1.33	85.46	0.23	0.01	0.01	0.01	0.00	0.14
stop idle	20%	0.2 hrs/truck arrival	7,696	1,539	135.00	3.68	3.57	8.01	1.33	85.46	0.23	0.01	0.01	0.01	0.00	0.14
moving (10mph)	60%	0.6 hrs/truck arrival	7,696	4,618	256.03	7.71	7.48	22.11	5.31	192.41	1.30	0.04	0.04	0.11	0.03	0.98
Total per truck arrival (truck visit)	1.00 Truck Turn time		7,696	7,696							1.76	0.05	0.05	0.14	0.03	1.27

Total On Terminal **32.37 0.95 0.92 2.57 0.58 23.33**

Road Truck Trips (off-terminal)

282,902 PM2.5 % 97% of PM10

Truck Trips	Truck Trips	Truck Type	Time Period	# Trips per Year	% of trips	Dist (mi)	Avg Speed	VMT	Speed Specific Emission Factors						Emissions (short tons)									
									Nox gr/mi	Exhaust PM gr/mi	Exhaust PM 2.5 gr/mi	VOCs gr/mi	Sulfur Dioxide (SO2) gr/mi	Carbon Monoxide gr/mi	Nox	PM10	PM2.5	VOCs	SO2	CO				
267,510	53,502	20% Bobtails	1 Weekday AM Rush Hour - 15%	Arriving / Departing	8,025	Path BA1	100%	Seg 1	3.0	15	24,076	22.72	0.77	0.75	1.77	0.53	13.88	0.60	0.02	0.02	0.05	0.01	0.37	
						Seg 2	8.3	45	66,610	20.08	0.77	0.75	0.75	0.53	5.10	1.47	0.06	0.05	0.06	0.04	0.04	0.37		
						Path BA2	0%	Seg 1	0.0	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Seg 2	0.0	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
			Path BA3	0%	Seg 1	0.0	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
			Seg 2	0.0	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
			Path BA1	100%	Seg 1	3.0	15	16,051	22.72	0.77	0.75	1.77	0.53	13.88	0.40	0.01	0.01	0.03	0.01	0.25				
			Seg 2	8.3	45	44,407	20.08	0.77	0.75	0.75	0.53	5.10	0.98	0.04	0.04	0.04	0.03	0.25						
			Path BA2	0%	Seg 1	0.0	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00				
	Seg 2	0.0	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00								
	Path BA3	0%	Seg 1	0.0	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00							
	Seg 2	0.0	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00									
	Path BA1	100%	Seg 1	3.0	20	120,380	20.79	0.77	0.75	1.46	0.53	10.49	2.76	0.10	0.10	0.19	0.07	1.39						
	Seg 2	8.3	50	333,050	21.61	0.77	0.75	0.70	0.53	5.06	7.94	0.28	0.27	0.26	0.19	1.86								
	Path BA2	0%	Seg 1	0.0	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00							
	Seg 2	0.0	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00									
	Path BA3	0%	Seg 1	0.0	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00							
	Seg 2	0.0	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00									
	267,510	26,751	10% Chassis	1 Weekday AM Rush Hour - 15%	Arriving / Departing	4,013	OFSRL	100%	Seg 1	3.0	15	12,038	22.72	0.77	0.75	1.77	0.53	13.88	0.30	0.01	0.01	0.02	0.01	0.18
							Seg 2	3.0	35	12,038	18.82	0.77	0.75	0.92	0.53	5.93	0.25	0.01	0.01	0.01	0.01	0.08		
							Path CA2	0%	Seg 1	0.0	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	
				Seg 2	0.0	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00						
				Path CA3	0%	Seg 1	0.0	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00				
				Seg 2	0.0	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00						
OFSRL				100%	Seg 1	3.0	15	8,025	22.72	0.77	0.75	1.77	0.53	13.88	0.20	0.01	0.01	0.02	0.00	0.12				
Seg 2				3.0	35	8,025	18.82	0.77	0.75	0.92	0.53	5.93	0.17	0.01	0.01	0.01	0.01	0.05						
Path CA2				0%	Seg 1	0.0	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00					
Seg 2		0.0	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00									
Path CA3		0%	Seg 1	0.0	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00							
Seg 2		0.0	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00									
OFSRL		100%	Seg 1	3.0	20	60,190	20.79	0.77	0.75	1.46	0.53	10.49	1.38	0.05	0.05	0.10	0.04	0.70						
Seg 2		3.0	40	60,190	19.18	0.77	0.75	0.82	0.53	5.38	1.27	0.05	0.05	0.05	0.04	0.36								
Path CA2		0%	Seg 1	0.0	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00							
Seg 2	0.0	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00										
Path CA3	0%	Seg 1	0.0	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00								
Seg 2	0.0	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00										
267,510	187,257	70% Loads & Empties	1 Weekday AM Rush Hour - 15%	Arriving / Departing	28,089	OFSRL	18.0%	Seg 1	3.0	15	15,168	22.72	0.77	0.75	1.77	0.53	13.88	0.38	0.01	0.01	0.03	0.01	0.23	
						Seg 2	3.0	45	15,168	20.08	0.77	0.75	0.75	0.53	5.10	0.34	0.01	0.01	0.01	0.01	0.09			
						LOCAL	18.6%	Seg 1	3.0	15	15,673	22.72	0.77	0.75	1.77	0.53	13.88	0.39	0.01	0.01	0.03	0.01	0.24	
			Seg 2	11.3	45	59,037	20.08	0.77	0.75	0.75	0.53	5.10	1.31	0.05	0.05	0.05	0.03	0.33						
			Path LA3	63.4%	Seg 1	3.0	15	53,424	22.72	0.77	0.75	1.77	0.53	13.88	1.34	0.05	0.04	0.10	0.03	0.82				
			Seg 2	47.0	45	836,983	20.08	0.77	0.75	0.75	0.53	5.10	18.53	0.71	0.69	0.69	0.49	4.70						
			OFSRL	18.0%	Seg 1	3.0	15	10,112	22.72	0.77	0.75	1.77	0.53	13.88	0.25	0.01	0.01	0.02	0.01	0.15				
			Seg 2	3.0	45	10,112	20.08	0.77	0.75	0.75	0.53	5.10	0.22	0.01	0.01	0.01	0.01	0.06						
			LOCAL	18.6%	Seg 1	3.0	15	10,449	22.72	0.77	0.75	1.77	0.53	13.88	0.26	0.01	0.01	0.02	0.01	0.16				
	Seg 2	11.3	45	39,358	20.08	0.77	0.75	0.75	0.53	5.10	0.87	0.03	0.03	0.03	0.02	0.22								
	Path LA3	63.4%	Seg 1	3.0	15	35,616	22.72	0.77	0.75	1.77	0.53	13.88	0.89	0.03	0.03	0.07	0.02	0.55						
	Seg 2	47.0	45	557,988	20.08	0.77	0.75	0.75	0.53	5.10	12.35	0.47	0.46	0.46	0.33	3.14								
	OFSRL	18.0%	Seg 1	3.0	20	75,839	20.79	0.77	0.75	1.46	0.53	10.49	1.74	0.06	0.06	0.12	0.04	0.88						
	Seg 2	3.0	50	75,839	21.61	0.77	0.75	0.70	0.53	5.06	1.81	0.06	0.06	0.06	0.04	0.42								
	LOCAL	18.6%	Seg 1	3.0	20	78,367	20.79	0.77	0.75	1.46	0.53	10.49	1.80	0.07	0.06	0.13	0.05	0.91						
Seg 2	11.3	50	295,183	21.61	0.77	0.75	0.70	0.53	5.06	7.03	0.25	0.24	0.23	0.17	1.65									
Path LA3	63.4%	Seg 1	3.0	20	267,122	20.79	0.77	0.75	1.46	0.53	10.49	6.12	0.23	0.22	0.43	0.16	3.09							
Seg 2	47.0	50	4,184,913	21.61	0.77	0.75	0.70	0.53	5.06	99.71	3.56	3.45	3.25	2.45	23.33									
15,392	15,392	Breakbulk Trips	1 Weekday AM Rush Hour - 15%	Arriving																				

North Charleston Heavy Duty Vehicles

Container Truck Visits per Year **218,076** <- from cargo / truck trip analysis
 Container Truck Trips 436,152

Breakbulk Visits **850** <- from cargo / truck trip analysis
 Breakbulk Truck Trips 1,700

Road Trucks on-terminal

Container Truck Turn Time	1 hrs	Arriving Trucks	annual hrs	Hourly Emission Factors						Emissions (short tons)					
				Nox g/hr	Exhaust PM10 gr/hr	Exhaust PM 2.5 gr/hr	VOCs gr/hr	SO2 gr/hr	CO gr/hr	Nox	PM10	PM2.5	VOCs	SO2	CO
Creep Idle	20%	218,076	43,615	135.00	3.68	3.57	8.01	1.33	85.46	6.49	0.18	0.17	0.39	0.06	4.11
stop idle	20%	218,076	43,615	135.00	3.68	3.57	8.01	1.33	85.46	6.49	0.18	0.17	0.39	0.06	4.11
moving (10mph)	60%	218,076	130,846	256.03	7.71	7.48	22.11	5.31	192.41	36.93	1.11	1.08	3.19	0.77	27.75
Total per truck arrival (truck visit)	1.00 Truck Turn time	218,076	218,076							49.91	1.47	1.42	3.96	0.89	35.97

Breakbulk Truck Turn Time	1 hrs	Arriving Trucks	annual hrs	Hourly Emission Factors						Emissions (short tons)					
				Nox g/hr	Exhaust PM10 gr/hr	Exhaust PM 2.5 gr/hr	VOCs gr/hr	SO2 gr/hr	CO gr/hr	Nox	PM10	PM2.5	VOCs	SO2	CO
Creep Idle	20%	850	170	135.00	3.68	3.57	8.01	1.33	85.46	0.03	0.00	0.00	0.00	0.00	0.02
stop idle	20%	850	170	135.00	3.68	3.57	8.01	1.33	85.46	0.03	0.00	0.00	0.00	0.00	0.02
moving (10mph)	60%	850	510	256.03	7.71	7.48	22.11	5.31	192.41	0.14	0.00	0.00	0.01	0.00	0.11
Total per truck arrival (truck visit)	1.00 Truck Turn time	850	850							0.19	0.01	0.01	0.02	0.00	0.14

Total On Terminal **50.10 1.47 1.43 3.97 0.90 36.11**

Road Truck Trips (off-terminal)

437,852 PM2.5 % 97% of PM10

Truck Trips	Truck Trips	Truck Type	Time Period	# Trips per Year	% of trips	Dist (mi)	Avg Speed	VMT	Speed Specific Emission Factors						Emissions (short tons)																	
									Nox gr/mi	Exhaust PM gr/mi	Exhaust PM 2.5 gr/mi	VOCs gr/mi	Sulfur Dioxide (SO2) gr/mi	Carbon Monoxide gr/mi	Nox	PM10	PM2.5	VOCs	SO2	CO												
436,152	87,230	20% Bobtails	1 Weekday AM Rush Hour - 15%	Arriving / Departing	13,085	100%	Path BA1	Seg 1	3.00	15	39,254	22.72	0.77	0.75	1.77	0.53	13.88	0.98	0.03	0.03	0.08	0.02	0.60									
							Seg 2	3.75	45	49,067	20.08	0.77	0.75	0.75	0.53	5.10	1.09	0.04	0.04	0.04	0.03	0.28										
							Path BA2	0%	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00									
			2 Weekday PM Rush Hour - 10%	Arriving / Departing	8,723	100%	Path BA1	Seg 1	3.00	15	26,169	22.72	0.77	0.75	1.77	0.53	13.88	0.66	0.02	0.02	0.05	0.02	0.40									
							Seg 2	3.75	45	32,711	20.08	0.77	0.75	0.75	0.53	5.10	0.72	0.03	0.03	0.03	0.02	0.18										
							Path BA2	0%	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00									
			3 Weekday Non-Rush Hour - 75%	Arriving / Departing	65,423	100%	Path BA1	Seg 1	3.00	20	196,268	20.79	0.77	0.75	1.46	0.53	10.49	4.50	0.17	0.16	0.31	0.11	2.27									
							Seg 2	3.75	50	245,336	21.61	0.77	0.75	0.70	0.53	5.06	5.85	0.21	0.20	0.19	0.14	1.37										
							Path BA2	0%	0.00	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00	0.00									
	43,615	10% Chassis	1 Weekday AM Rush Hour - 15%	Arriving / Departing	6,542	100%	OFSRL	Seg 1	3.00	15	19,627	22.72	0.77	0.75	1.77	0.53	13.88	0.49	0.02	0.02	0.04	0.01	0.30									
							Seg 2	2.50	35	16,356	18.82	0.77	0.75	0.92	0.53	5.93	0.34	0.01	0.01	0.02	0.01	0.11										
							Path CA2	0%	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00									
			2 Weekday PM Rush Hour - 10%	Arriving / Departing	4,362	100%	OFSRL	Seg 1	3.00	15	13,085	22.72	0.77	0.75	1.77	0.53	13.88	0.33	0.01	0.01	0.03	0.01	0.20									
							Seg 2	2.50	35	10,904	18.82	0.77	0.75	0.92	0.53	5.93	0.23	0.01	0.01	0.01	0.01	0.07										
							Path CA2	0%	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00									
			3 Weekday Non-Rush Hour - 75%	Arriving / Departing	32,711	100%	OFSRL	Seg 1	3.00	20	98,134	20.79	0.77	0.75	1.46	0.53	10.49	2.25	0.08	0.08	0.16	0.06	1.13									
							Seg 2	2.50	40	81,779	19.18	0.77	0.75	0.82	0.53	5.38	1.73	0.07	0.07	0.07	0.05	0.48										
							Path CA2	0%	0.00	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00	0.00									
	305,306	70% Loads & Empties	1 Weekday AM Rush Hour - 15%	Arriving / Departing	45,796	18.0%	OFSRL	Seg 1	3.00	15	24,730	22.72	0.77	0.75	1.77	0.53	13.88	0.62	0.02	0.02	0.05	0.01	0.38									
							Seg 2	2.50	45	20,608	20.08	0.77	0.75	0.75	0.53	5.10	0.46	0.02	0.02	0.02	0.01	0.12										
							LOCAL	18.6%	3.00	15	25,554	22.72	0.77	0.75	1.77	0.53	13.88	0.64	0.02	0.02	0.05	0.01	0.39									
			2 Weekday PM Rush Hour - 10%	Arriving / Departing	30,531	18.6%	OFSRL	Seg 1	3.00	15	16,487	22.72	0.77	0.75	1.77	0.53	13.88	0.41	0.01	0.01	0.03	0.01	0.25									
							Seg 2	2.50	45	13,739	20.08	0.77	0.75	0.75	0.53	5.10	0.30	0.01	0.01	0.01	0.01	0.08										
							LOCAL	18.6%	3.00	15	17,036	22.72	0.77	0.75	1.77	0.53	13.88	0.43	0.01	0.01	0.03	0.01	0.26									
3 Weekday Non-Rush Hour - 75%			Arriving / Departing	228,980	63.4%	OFSRL	Seg 1	3.00	15	58,069	22.72	0.77	0.75	1.77	0.53	13.88	1.45	0.05	0.05	0.11	0.03	0.89										
						Seg 2	37.00	45	716,188	20.08	0.77	0.75	0.75	0.53	5.10	15.85	0.61	0.59	0.59	0.42	4.02											
						Path LA3	63.4%	3.00	15	87,104	22.72	0.77	0.75	1.77	0.53	13.88	2.18	0.07	0.07	0.17	0.05	1.33										
1,700	Breakbulk Trips	1 Weekday AM Rush Hour - 15%	Arriving / Departing	255	33.3%	Path BB1	Seg 1	3.00	15	255	22.72	0.77	0.75	1.77	0.53	13.88	0.01	0.00	0.00	0.00	0.00	0.00										
						Seg 2	2.50	45	213	20.08	0.77	0.75	0.75	0.53	5.10	0.00	0.00	0.00	0.00	0.00	0.00											
						Path BB2	33.3%	3.00	20	255	20.79	0.77	0.75	1.46	0.53	10.49	0.01	0.00	0.00	0.00	0.00	0.00										
		2 Weekday PM Rush Hour - 10%	Arriving / Departing	170	33.3%	Path BB1	Seg 1	3.00	15	170	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00	0.00	0.00										
						Seg 2	2.50	45	142	20.08	0.77	0.75	0.75	0.53	5.10	0.00	0.00	0.00	0.00	0.00	0.00											
						Path BB2	33.3%	3.00	20	170	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00										
		3 Weekday Non-Rush Hour - 75%	Arriving / Departing	1,275	33.3%	Path BB1	Seg 1	3.00	20	1,275	20.79	0.77	0.75	1.46	0.53	10.49	0.03	0.00	0.00	0.00	0.00	0.01										
						Seg 2	2.50	50	1,063	21.61	0.77	0.75	0.70	0.53	5.06	0.03	0.00	0.00	0.00	0.00	0.01											
						Path BB2	33.3%	3.00	30	1,275	18.94	0.77	0.75	1.05	0.53	6.86	0.03	0.00	0.00	0.00	0.00	0.01										
Total	437,852	21.6	9,458,494	221.15	8.04	7.79	8.67	5.53	61.96	OFF TERMINAL						ON TERMINAL						TOTAL										
										# Trips	Avg Dist	VMT	Nox	PM10	PM2.5	VOCs	SO2	CO	# Visits (1/2 trips)	Hrs/Visit	Nox	PM10	PM2.5	VOCs	SO2	CO	Nox	PM10	PM2.5	VOCs	SO2	CO
										305,306	28.2	8,598,497	201.27	7.30	7.09	7.61	5.03	54.37														
Bobtails	87,230	6.8	588,805	13.79	0.50	0.49	0.70	0.34	5.10																							
Chassis	43,615	5.5	239,884	5.36	0.20	0.20	0.32	0.14	2.30																							
Subtotal Containers	436,152	21.6	9,427,186	220.43	8.01	7.77	8.64	5.52	61.76	218,076	1.00	49.91	1.47	1.42	3.96	0.89	35.97	270.34	9.47	9.19	12.60	6.41	97.73									
Subtotal Breakbulk	1,700	18.4	31,308	0.72	0.03	0.03	0.03	0.02	0.20	850	1.00	0.19	0.01	0.01	0.02	0.00	0.14	0.91	0.03	0.03	0.04	0.02	0.34									
Total	437,852	21.6	9,458,494	221.15	8.04	7.79	8.67	5.53	61.96	218,926		50.10	1.47	1.43	3.97	0.90	36.11	271.25	9.51	9.22	12.64	6.43	98.07									

All emissins in short tons (2,000 lbs)

Union Pier Heavy Duty Vehicles

Container Truck Visits per Year **0** <- from cargo / truck trip analysis
 Container Truck Trips **0**

Breakbulk Visits **8,299** <- from cargo / truck trip analysis
 Breakbulk Truck Trips **16,598**

Road Trucks on-terminal

	Arriving Trucks	annual hrs	Hourly Emission Factors					Emissions (short tons)										
			Nox g/hr	Exhaust PM10 gr/hr	Exhaust PM 2.5 gr/hr	VOCs gr/hr	SO2 gr/hr	CO gr/hr	Nox	PM10	PM2.5	VOCs	SO2	CO				
Container Truck Turn Time		1 hrs																
Creep Idle 20%	0	0.2 hrs/truck arrival	0	0	0	0	135.00	3.68	3.57	8.01	1.33	85.46	0.00	0.00	0.00	0.00	0.00	0.00
stop idle 20%	0	0.2 hrs/truck arrival	0	0	0	0	135.00	3.68	3.57	8.01	1.33	85.46	0.00	0.00	0.00	0.00	0.00	0.00
moving (10mph) 60%	0	0.6 hrs/truck arrival	0	0	0	0	256.03	7.71	7.48	22.11	5.31	192.41	0.00	0.00	0.00	0.00	0.00	0.00
Total per truck arrival (truck visit)	1.00	Truck Turn time	0	0									0.00	0.00	0.00	0.00	0.00	0.00

	Arriving Trucks	annual hrs	Hourly Emission Factors					Emissions (short tons)										
			Nox g/hr	Exhaust PM10 gr/hr	Exhaust PM 2.5 gr/hr	VOCs gr/hr	SO2 gr/hr	CO gr/hr	Nox	PM10	PM2.5	VOCs	SO2	CO				
Breakbulk Truck Turn Time		1 hrs																
Creep Idle 20%	8,299	1,660	0	0	0	0	135.00	3.68	3.57	8.01	1.33	85.46	0.25	0.01	0.01	0.01	0.00	0.16
stop idle 20%	8,299	1,660	0	0	0	0	135.00	3.68	3.57	8.01	1.33	85.46	0.25	0.01	0.01	0.01	0.00	0.16
moving (10mph) 60%	8,299	4,979	0	0	0	0	256.03	7.71	7.48	22.11	5.31	192.41	1.41	0.04	0.04	0.12	0.03	1.06
Total per truck arrival (truck visit)	1.00	Truck Turn time	8,299	8,299									1.90	0.06	0.05	0.15	0.03	1.37

Total On Terminal **1.90 0.06 0.05 0.15 0.03 1.37**

Road Truck Trips (off-terminal) 16,598 PM2.5 % 97% of PM10

Truck Trips	Truck Trips	Truck Type	Time Period	# Trips per Year	% of trips	Dist (mi)	Avg Speed	VMT	Speed Specific Emission Factors					Emissions (short tons)											
									Nox gr/mi	Exhaust PM gr/mi	Exhaust PM 2.5 gr/mi	VOCs gr/mi	Sulfur Dioxide (SO2) gr/mi	Carbon Monoxide gr/mi	Nox	PM10	PM2.5	VOCs	SO2	CO					
0	0	20% Bobtails	1 Weekday AM Rush Hour - 15%	Arriving / Departing	0	100%	Path BA1	Seg 1	3.00	15	0	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00	0.00	0.00		
							Seg 2	3.75	45	0	20.08	0.77	0.75	0.75	0.53	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
							Path BA2	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
			Path BA3	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
			Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
			2 Weekday PM Rush Hour - 10%	Arriving / Departing	0	Path BA1	Seg 1	3.00	15	0	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00	0.00	0.00			
			Seg 2			3.75	45	0	20.08	0.77	0.75	0.75	0.53	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
			Path BA2			Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
		Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
		Path BA3	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
		Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
		3 Weekday Non-Rush Hour - 75%	Arriving / Departing	0	Path BA1	Seg 1	3.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00				
		Seg 2			3.75	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
		Path BA2			Seg 1	0.00	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
		Seg 2	0.00	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
		Path BA3	Seg 1	0.00	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
		Seg 2	0.00	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
		0	0	10% Chassis	1 Weekday AM Rush Hour - 15%	Arriving / Departing	0	100%	OFSRL	Seg 1	3.00	15	0	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00	0.00	
									Seg 2	2.50	35	0	18.82	0.77	0.75	0.92	0.53	5.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00
									Path CA2	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00
					Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
					Path CA3	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
					Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
					2 Weekday PM Rush Hour - 10%	Arriving / Departing	0	OFSRL	Seg 1	3.00	15	0	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00	0.00		
					Seg 2			2.50	35	0	18.82	0.77	0.75	0.92	0.53	5.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
					Path CA2			Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
				Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
				Path CA3	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
				Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
				3 Weekday Non-Rush Hour - 75%	Arriving / Departing	0	OFSRL	Seg 1	3.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00			
				Seg 2			2.50	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
				Path CA2			Seg 1	0.00	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
				Seg 2	0.00	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
				Path CA3	Seg 1	0.00	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
				Seg 2	0.00	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
0	0			70% Loads & Empties	1 Weekday AM Rush Hour - 15%	Arriving / Departing	0	18.0%	OFSRL	Seg 1	3.00	15	0	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00		
									Seg 2	2.50	45	0	20.08	0.77	0.75	0.75	0.53	5.10	0.00	0.00	0.00	0.00	0.00	0.00	
									LOCAL	Seg 1	3.00	15	0	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00	0.00	0.00
					Seg 2	6.75	45	0	20.08	0.77	0.75	0.75	0.53	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
					Path LA3	Seg 1	3.00	15	0	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00	0.00	0.00				
					Seg 2	37.00	45	0	20.08	0.77	0.75	0.75	0.53	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
					2 Weekday PM Rush Hour - 10%	Arriving / Departing	0	OFSRL	Seg 1	3.00	15	0	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00			
					Seg 2			2.50	45	0	20.08	0.77	0.75	0.75	0.53	5.10	0.00	0.00	0.00	0.00	0.00	0.00			
					LOCAL			Seg 1	3.00	15	0	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00	0.00			
				Seg 2	6.75	45	0	20.08	0.77	0.75	0.75	0.53	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
				Path LA3	Seg 1	3.00	15	0	22.72	0.77	0.75	1.77	0.53	13.88	0.00	0.00	0.00	0.00	0.00	0.00					
				Seg 2	37.00	45	0	20.08	0.77	0.75	0.75	0.53	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
				3 Weekday Non-Rush Hour - 75%	Arriving / Departing	0	OFSRL	Seg 1	3.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00				
				Seg 2			2.50	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00				
				LOCAL			Seg 1	3.00	20	0	20.79	0.77	0.75	1.46	0.53										

Wando Welch Heavy Duty Vehicles

Container Truck Visits per Year **607,556** <- from cargo / truck trip analysis
 Container Truck Trips 1,215,112

Breakbulk Visits **2,434** <- from cargo / truck trip analysis
 Breakbulk Truck Trips 4,868

Road Trucks on-terminal

Container Truck Turn Time	1 hrs	Arriving Trucks	annual hrs	Hourly Emission Factors						Emissions (short tons)					
				Nox g/hr	Exhaust PM10 gr/hr	Exhaust PM 2.5 gr/hr	VOCs gr/hr	SO2 gr/hr	CO gr/hr	Nox	PM10	PM2.5	VOCs	SO2	CO
Creep Idle	20%	607,556	121,511	135.00	3.68	3.57	8.01	1.33	85.46	18.08	0.49	0.48	1.07	0.18	11.45
stop idle	20%	607,556	121,511	135.00	3.68	3.57	8.01	1.33	85.46	18.08	0.49	0.48	1.07	0.18	11.45
moving (10mph)	60%	607,556	364,534	256.03	7.71	7.48	22.11	5.31	192.41	102.88	3.10	3.00	8.88	2.13	77.32
Total per truck arrival (truck visit)	1.00 Truck Turn time	607,556	607,556							139.05	4.08	3.96	11.03	2.49	100.21

Breakbulk Truck Turn Time	1 hrs	Arriving Trucks	annual hrs	Hourly Emission Factors						Emissions (short tons)					
				Nox g/hr	Exhaust PM10 gr/hr	Exhaust PM 2.5 gr/hr	VOCs gr/hr	SO2 gr/hr	CO gr/hr	Nox	PM10	PM2.5	VOCs	SO2	CO
Creep Idle	20%	2,434	487	135.00	3.68	3.57	8.01	1.33	85.46	0.07	0.00	0.00	0.00	0.00	0.05
stop idle	20%	2,434	487	135.00	3.68	3.57	8.01	1.33	85.46	0.07	0.00	0.00	0.00	0.00	0.05
moving (10mph)	60%	2,434	1,460	256.03	7.71	7.48	22.11	5.31	192.41	0.41	0.01	0.01	0.04	0.01	0.31
Total per truck arrival (truck visit)	1.00 Truck Turn time	2,434	2,434							0.56	0.02	0.02	0.04	0.01	0.40

Total On Terminal **139.60 4.10 3.98 11.07 2.50 100.61**

Road Truck Trips (off-terminal)

1,219,980 PM2.5 % 97% of PM10

Truck Trips	Truck Trips	Truck Type	Time Period	# Trips per Year	% of trips	Dist (mi)	Avg Speed	VMT	Speed Specific Emission Factors						Emissions (short tons)											
									Nox gr/mi	Exhaust PM gr/mi	Exhaust PM 2.5 gr/mi	VOCs gr/mi	Sulfur Dioxide (SO2) gr/mi	Carbon Monoxide gr/mi	Nox	PM10	PM2.5	VOCs	SO2	CO						
1,215,112	243,022	20% Bobtails	1 Weekday AM Rush Hour - 15%	Arriving / Departing	36,453	100%	3.00	15	109,360	Path BA1	Seg 1	3.00	15	22.72	0.77	0.75	1.77	0.53	13.88	2.74	0.09	0.09	0.21	0.06	1.67	
										Seg 2	10.50	45	382,760	20.08	0.77	0.75	0.75	0.53	5.10	8.47	0.33	0.32	0.32	0.22	2.15	
										Path BA2	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00
			Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
			Path BA3	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
			Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
			2 Weekday PM Rush Hour - 10%	Arriving / Departing	24,302	0%	0.00	20	0	Path BA1	Seg 1	3.00	15	72,907	22.72	0.77	0.75	1.77	0.53	13.88	1.83	0.06	0.06	0.14	0.04	1.12
			Seg 2							10.50	45	255,174	20.08	0.77	0.75	0.75	0.53	5.10	5.65	0.22	0.21	0.21	0.15	1.43		
			Path BA2							Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	
	Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
	Path BA3	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
	Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
	3 Weekday Non-Rush Hour - 75%	Arriving / Departing	182,267	0%	3.00	20	546,800	Path BA1	Seg 1	3.00	15	1,913,801	20.79	0.77	0.75	1.46	0.53	10.49	12.53	0.46	0.45	0.88	0.32	6.32		
	Seg 2							10.50	50	0	21.61	0.77	0.75	0.70	0.53	5.06	45.60	1.63	1.58	1.49	1.12	10.67				
	Path BA2							Seg 1	0.00	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00	0.00			
	Seg 2	0.00	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
	Path BA3	Seg 1	0.00	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
	Seg 2	0.00	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
	1 Weekday AM Rush Hour - 15%	Arriving / Departing	18,227	100%	3.00	15	54,680	OFSRL	Seg 1	3.00	15	177,710	22.72	0.77	0.75	1.77	0.53	13.88	1.37	0.05	0.05	0.11	0.03	0.84		
	Seg 2							9.75	35	118,473	18.82	0.77	0.75	0.92	0.53	5.93	3.69	0.15	0.15	0.18	0.10	1.16				
	Path CA2							Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00			
	Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
	Path CA3	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
	Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
2 Weekday PM Rush Hour - 10%	Arriving / Departing	12,151	100%	3.00	15	36,453	OFSRL	Seg 1	3.00	15	118,473	22.72	0.77	0.75	1.77	0.53	13.88	0.91	0.03	0.03	0.07	0.02	0.56			
Seg 2							9.75	35	118,473	18.82	0.77	0.75	0.92	0.53	5.93	2.46	0.10	0.10	0.12	0.07	0.78					
Path CA2							Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00				
Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
Path CA3	Seg 1	0.00	20	0	20.79	0.77	0.75	1.46	0.53	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
Seg 2	0.00	40	0	19.18	0.77	0.75	0.82	0.53	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
3 Weekday Non-Rush Hour - 75%	Arriving / Departing	91,133	100%	3.00	20	273,400	OFSRL	Seg 1	3.00	20	888,551	20.79	0.77	0.75	1.46	0.53	10.49	6.27	0.23	0.23	0.44	0.16	3.16			
Seg 2							9.75	40	888,551	19.18	0.77	0.75	0.82	0.53	5.38	18.79	0.75	0.73	0.80	0.52	5.27					
Path CA2							Seg 1	0.00	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00	0.00				
Seg 2	0.00	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
Path CA3	Seg 1	0.00	30	0	18.94	0.77	0.75	1.05	0.53	6.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
Seg 2	0.00	50	0	21.61	0.77	0.75	0.70	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
1 Weekday AM Rush Hour - 15%	Arriving / Departing	127,587	18.0%	3.00	15	68,897	OFSRL	Seg 1	3.00	15	223,915	22.72	0.77	0.75	1.77	0.53	13.88	1.73	0.06	0.06	0.13	0.04	1.05			
Seg 2							9.75	45	223,915	20.08	0.77	0.75	0.75	0.53	5.10	4.96	0.19	0.18	0.19	0.13	1.26					
LOCAL							Seg 1	3.00	15	71,193	22.72	0.77	0.75	1.77	0.53	13.88	1.78	0.06	0.06	0.14	0.04	1.09				
Seg 2	13.50	45	320,370	20.08	0.77	0.75	0.75	0.53	5.10	7.09	0.27	0.26	0.27	0.19	1.80											
Path LA3	Seg 1	3.00	15	242,670	22.72	0.77	0.75	1.77	0.53	13.88	6.08	0.21	0.20	0.47	0.14	3.71										
Seg 2	49.00	45	3,963,610	20.08	0.77	0.75	0.75	0.53	5.10	87.74	3.37	3.27	3.29	2.32	22.27											
2 Weekday PM Rush Hour - 10%	Arriving / Departing	85,058	18.0%	3.00	15	45,931	OFSRL	Seg 1	3.00	15	149,277	22.72	0.77	0.75	1.77	0.53	13.88	1.15	0.04	0.04	0.09	0.03	0.70			
Seg 2							9.75	45	149,277	20.08	0.77	0.75	0.75	0.53	5.10	3.30	0.13	0.12	0.12	0.09	0.84					
LOCAL							Seg 1	3.00	15	47,462	22.72	0.77	0.75	1.77	0.53	13.88	1.19	0.04	0.04	0.09	0.03	0.73				
Seg 2	13.50	45	213,580	20.08	0.77	0.75	0.75	0.53	5.10	4.73	0.18	0.18	0.18	0.12	1.20											
Path LA3	Seg 1	3.00	15	161,780	22.72	0.77	0.75	1.77	0.53	13.88	4.05	0.14	0.13	0.32	0.09	2.48										
Seg 2	49.00	45	2,642,407	20.08	0.77	0.75	0.75	0.53	5.10	58.49	2.24	2.18	2.19	1.55	14.85											
3 Weekday Non-Rush Hour - 75%	Arriving / Departing	637,934	18.0%	3.00	20	344,484	OFSRL	Seg 1	3.00	20	1,119,574	20.79	0.77	0.75	1.46	0.53	10.49	7.90	0.29	0.28	0.55	0.20	3.98			
Seg 2							9.75	50	1,119,574	21.61	0.77	0.75	0.70	0.53	5.06	26.67	0.95	0.92	0.87	0.65	6.24					
LOCAL							Seg 1	3.00	20	355,967	20.79	0.77	0.75	1.46	0.53											

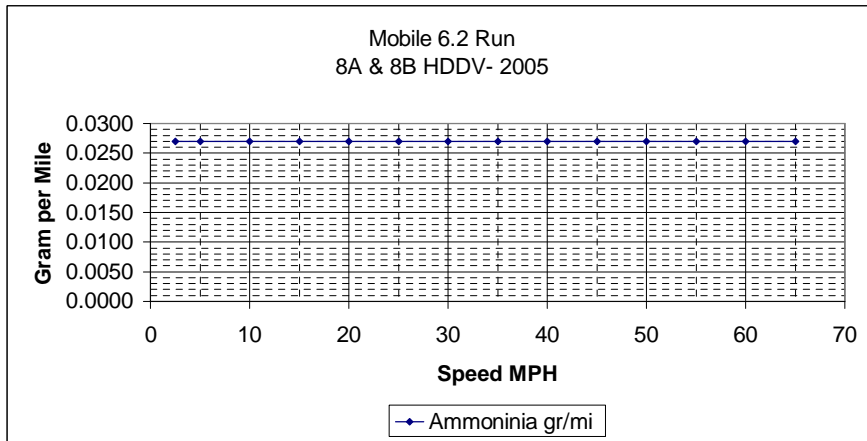
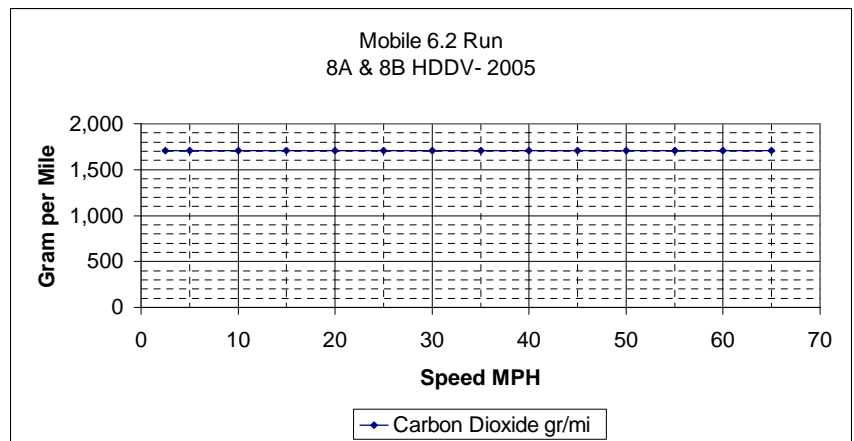
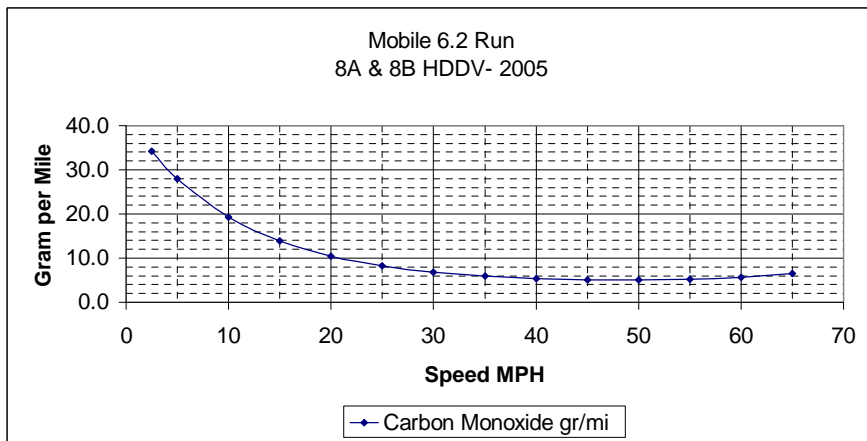
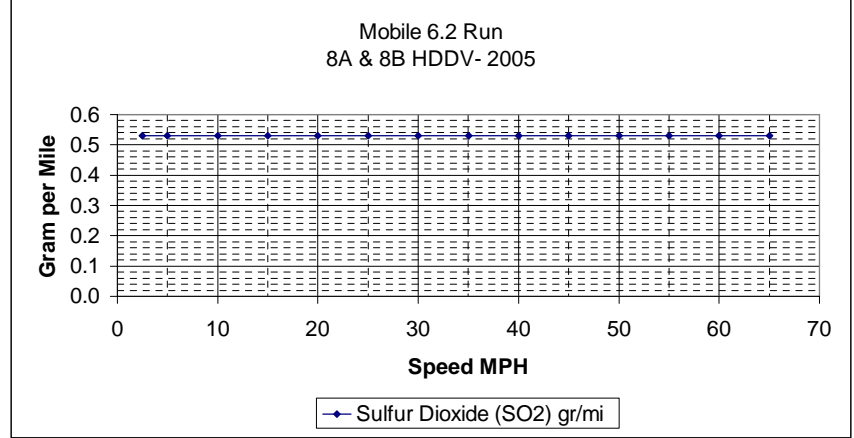
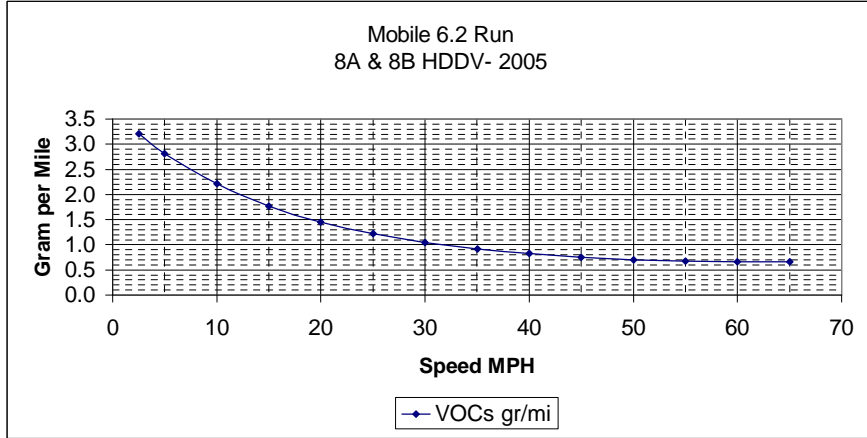
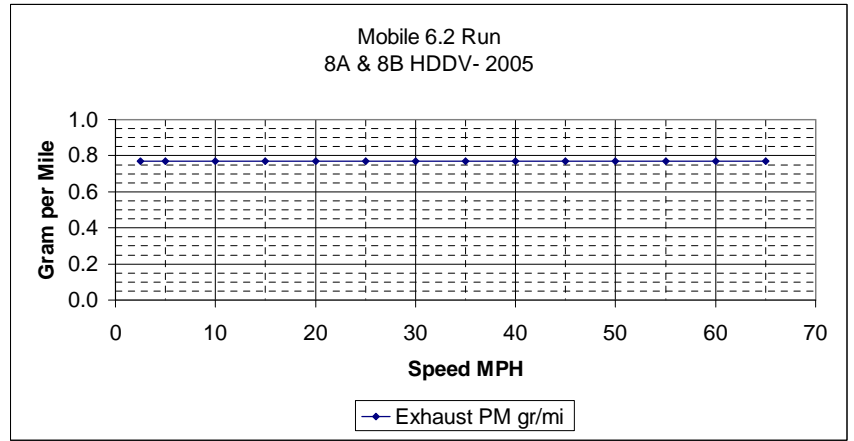
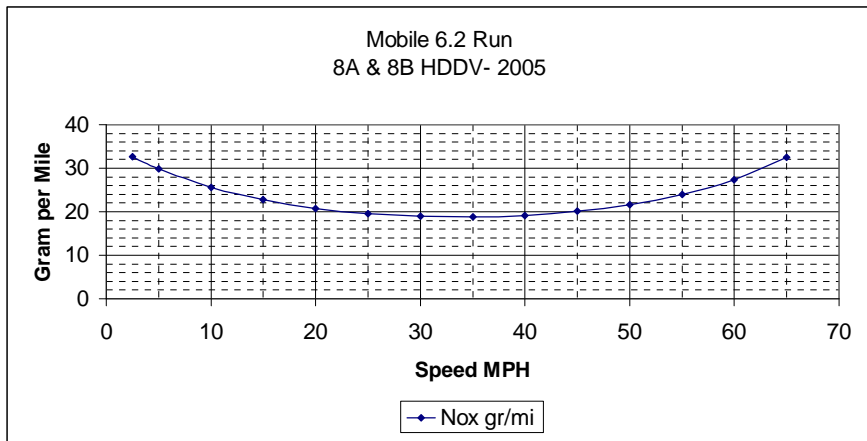
Mobile 6.2 Run

#22 Heavy Duty Diesel Truck (8A) (33,001 to 60,000 lbs GVWR)
 #23 Heavy Duty Diesel Truck (8B) (>60,000 lbs GVWR)
 Calander Year 2005
 Sulfur Content 500 ppm
 Etype Emission Type (1= Exhaust Running Emissions)
 Ftype Facilities Type (1= Highway (non-ramp))

% of 8A Trucks 0%
 % of 8B Trucks 100%

Model Year	Age	EPA Default Distribution 8A	EPA Default Distribution 8B	Override Distribution 8A	Override Distribution 8B
1981	24	8.29%	8.29%	8.29%	8.29%
1982	23	1.74%	1.74%	1.74%	1.74%
1983	22	1.85%	1.85%	1.85%	1.85%
1984	21	1.99%	1.99%	1.99%	1.99%
1985	20	2.12%	2.12%	2.12%	2.12%
1986	19	2.27%	2.27%	2.27%	2.27%
1987	18	2.42%	2.42%	2.42%	2.42%
1988	17	2.59%	2.59%	2.59%	2.59%
1989	16	2.77%	2.77%	2.77%	2.77%
1990	15	2.97%	2.97%	2.97%	2.97%
1991	14	3.16%	3.16%	3.16%	3.16%
1992	13	3.39%	3.39%	3.39%	3.39%
1993	12	3.62%	3.62%	3.62%	3.62%
1994	11	3.87%	3.87%	3.87%	3.87%
1995	10	4.14%	4.14%	4.14%	4.14%
1996	9	4.42%	4.42%	4.42%	4.42%
1997	8	4.73%	4.73%	4.73%	4.73%
1998	7	5.06%	5.06%	5.06%	5.06%
1999	6	5.41%	5.41%	5.41%	5.41%
2000	5	5.78%	5.78%	5.78%	5.78%
2001	4	6.18%	6.18%	6.18%	6.18%
2002	3	6.61%	6.61%	6.61%	6.61%
2003	2	7.06%	7.06%	7.06%	7.06%
2004	1	7.55%	7.55%	7.55%	7.55%
2005	0	0.00%	0.00%	0.00%	0.00%

Average Speed Mph	EPA Guidance (ICF 2006)	Idle calc using 2.5 mph emiss rate (gr/hr)	Average Speed													
			2.5	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0
Nox gr/mi	135	81.52	32.61	29.82	25.60	22.72	20.79	19.58	18.94	18.82	19.18	20.08	21.61	23.96	27.43	32.48
Exhaust PM gr/mi	3.68	1.93	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771
VOCs gr/mi		8.01	3.20	2.82	2.21	1.77	1.46	1.22	1.05	0.92	0.82	0.75	0.70	0.67	0.66	0.66
Sulfur Dioxide (SO2) gr/mi		1.33	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531
Carbon Monoxide gr/mi		85.46	34.18	27.90	19.24	13.88	10.49	8.29	6.86	5.93	5.38	5.10	5.06	5.25	5.71	6.49
Carbon Dioxide gr/mi		4,271.86	1,708.74	1,708.74	1,708.74	1,708.74	1,708.74	1,708.74	1,708.74	1,708.74	1,708.74	1,708.74	1,708.74	1,708.74	1,708.74	1,708.74
Ammonia gr/mi		0.067	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027



Mobile 6.2 Run

Heavy Duty Diesel Truck (8B) (>60,000 lbs GVWR)

Exhaust NOx, Pollutant (3)

Calander Year 2005

Sulfur Content 500 ppm

POL Pollutant

Vtype Vehicle Type

Etype Emission Type (1= Exhaust Running Emissions)

Ftype Facilities Type (1= Highway (non-ramp))

MYR Model Year

Age Calander Year - model Year

REGDIST % of vehicle type this model year

Nox

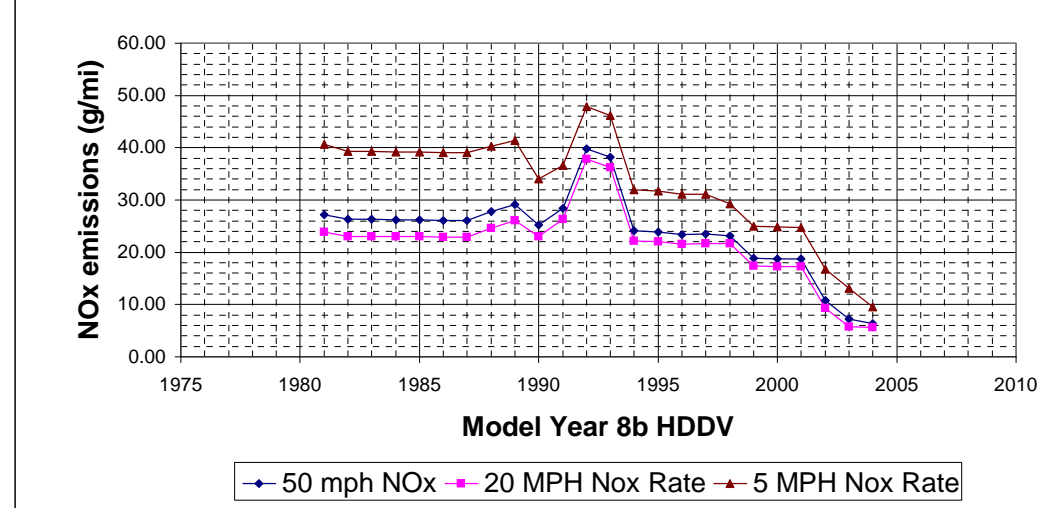
% of 8A Trucks 0%
 % of 8B Trucks 100%

Final HD Diesel Trucks g/mi	32.60644	29.8197	25.60323	22.72073	20.79122	19.57871	18.94367	18.81589	19.18157	20.08056	21.61391	23.96289	27.42508	32.47765
Speed (mph)	2.5	5	10	15	20	25	30	35	40	45	50	55	60	65
Composite 8A Trucks	29.11643	26.56918	22.71508	20.08028	18.31666	17.20829	16.62782	16.51103	16.84529	17.66703	19.06859	21.2157	24.38036	28.99872
Composite 8B Trucks	32.60644	29.8197	25.60323	22.72073	20.79122	19.57871	18.94367	18.81589	19.18157	20.08056	21.61391	23.96289	27.42508	32.47765

#23 Heavy Duty Diesel Truck (8B) (>60,000 lbs GVWR)

POL		VTYPE	1= running Facility Type (1= Freeway)		AGE	MYR	Scenario ->		Scenario ->															
			ETYPE	FTYPE			Avg Speed (mph) ->	REGDIST	GM_MILE	2.5 mph	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	
3	23	1	1	1	24	1981	5.16	0.0829	45.2029	40.6286	33.7076	28.9762	25.809	23.8188	22.7764	22.5667	23.1669	24.6425	27.1594	31.0151	36.698	44.9915		
3	23	1	1	1	23	1982	5.16	0.0174	43.7719	39.3425	32.6406	28.0589	24.992	23.0648	22.0554	21.8523	22.4335	23.8624	26.2996	30.0333	35.5363	43.5672		
3	23	1	1	1	22	1983	5.16	0.0185	43.7457	39.3189	32.621	28.0421	24.977	23.0509	22.0421	21.8392	22.42	23.8481	26.2839	30.0152	35.515	43.5411		
3	23	1	1	1	21	1984	5.25	0.0199	43.6196	39.2056	32.5269	27.9612	24.905	22.9845	21.9786	21.7762	22.3554	23.7794	26.2081	29.9287	35.4126	43.4156		
3	23	1	1	1	20	1985	5.33	0.0212	43.5775	39.1678	32.4956	27.9343	24.881	22.9623	21.9574	21.7552	22.3339	23.7565	26.1828	29.8999	35.3785	43.3738		
3	23	1	1	1	19	1986	5.42	0.0227	43.4532	39.056	32.4029	27.8546	24.81	22.8968	21.8947	21.6932	22.2701	23.6887	26.1081	29.8146	35.2775	43.25		
3	23	1	1	1	18	1987	5.51	0.0242	43.4532	39.056	32.4029	27.8546	24.81	22.8968	21.8948	21.6931	22.2701	23.6887	26.1081	29.8146	35.2775	43.25		
3	23	1	1	1	17	1988	5.59	0.0259	44.5556	40.3009	33.8632	29.4623	26.5164	24.6651	23.6956	23.5005	24.0588	25.4314	27.7724	31.3588	36.6448	44.359		
3	23	1	1	1	16	1989	5.68	0.0277	45.6197	41.4348	35.103	30.7743	27.8768	26.056	25.1023	24.9104	25.4596	26.8096	29.1122	32.6397	37.8388	45.4263		
3	23	1	1	1	15	1990	5.77	0.0297	34.0266	29.512	26.4257	24.3598	23.0616	22.3816	22.2448	22.6363	23.5989	25.2407	27.7557	31.4627	36.8725			
3	23	1	1	1	14	1991	5.86	0.0316	39.4065	36.6191	32.4016	29.5184	27.5884	26.3756	25.7404	25.6126	25.9784	26.8776	28.4113	30.7608	34.2239	39.2777		
3	23	1	1	1	13	1992	5.95	0.0339	50.6826	47.9279	43.7598	40.9104	39.0031	37.8045	37.1767	37.0504	37.4119	38.3006	39.8163	42.1383	45.5608	50.5553		
3	23	1	1	1	12	1993	6.03	0.0362	48.9151	46.2083	42.1126	39.3128	37.4386	36.2608	35.644	35.5199	35.875	36.7483	38.2377	40.5193	43.8823	48.79		
3	23	1	1	1	11	1994	6.12	0.0387	34.5612	31.9044	27.8845	25.1364	23.2968	22.1409	21.5354	21.4136	21.7622	22.6193	24.0812	26.3206	29.6214	34.4385		
3	23	1	1	1	10	1995	6.21	0.0414	34.2997	31.6729	27.6983	24.9812	23.1624	22.0194	21.4208	21.3004	21.6451	22.4925	23.9379	26.1521	29.4156	34.1783		
3	23	1	1	1	9	1996	6.3	0.0442	33.666	31.0697	27.1414	24.4559	22.6583	21.5286	20.937	20.818	21.1586	21.9962	23.4248	25.6132	28.8388	33.546		
3	23	1	1	1	8	1997	6.3	0.0473	33.7211	31.1343	27.2204	24.5447	22.7536	21.6281	21.0386	20.92	21.2595	22.094	23.5173	25.6977	28.9115	33.6015		
3	23	1	1	1	7	1998	6.3	0.0506	31.3624	29.2858	26.1436	23.9956	22.5577	21.6542	21.1809	21.0857	21.3582	22.0282	23.1708	24.9213	27.5013	31.2665		
3	23	1	1	1	6	1999	6.3	0.0541	27.0014	24.9363	21.8117	19.6756	18.2457	17.3472	16.8766	16.7819	17.0529	17.7191	18.8554	20.5961	23.1618	26.906		
3	23	1	1	1	5	2000	6.3	0.0578	26.8754	24.8231	21.7177	19.5948	18.1738	17.2808	16.8131	16.719	16.9883	17.6504	18.7797	20.5097	23.0595	26.7806		
3	23	1	1	1	4	2001	6.3	0.0618	26.7364	24.6981	21.6141	19.5057	18.0944	17.2076	16.7431	16.6496	16.9171	17.5746	18.6962	20.4143	22.9466	26.6422		
3	23	1	1	1	3	2002	6.3	0.0661	18.8072	16.7844	13.7238	11.6315	10.231	9.3508	8.8899	8.7972	9.0626	9.7151	10.8281	12.5331	15.0462	18.7137		
3	23	1	1	1	2	2003	6.3	0.0706	15.0917	13.0861	10.0514	7.9768	6.5881	5.7154	5.2584	5.1664	5.4296	6.0766	7.1802	8.8708	11.3626	14.999		
3	23	1	1	1	1	2004	6.3	0.0755	10.6591	9.5804	7.9484	6.8327	6.0859	5.6166	5.3708	5.3213	5.4629	5.8108	6.4043	7.3135	8.6536	10.6092		
3	23	1	1	1	0	2005	6.3	0.0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Weighted Average 8B									100.0%	32.60644	29.8197	25.60323	22.72073	20.79122	19.57871	18.94367	18.81589	19.18157	20.08056	21.61391	23.96289	27.42508	32.47765	

Nox emiss rate vs. Model Year



#22 Heavy Duty Diesel Truck (8A) (33,001 to 60,000 lbs GVWR)

POL		VTYPE	1= running Facility Type (1= Freeway)		AGE	MYR	Scenario ->		Scenario ->															
			ETYPE	FTYPE			Avg Speed (MPH) ->	REGDIST	GM_MILE	2.5	5	10	15	20	25	30	35	40	45	50	55	60	65	
3	22	1	1	1	24	1981	5.16	0.0829	43.1344	38.7695	32.1652	27.6502	24.628	22.7288	21.7341	21.534	22.1068	23.5149	25.9166	29.5958	35.0188	42.9327		
3	22	1	1	1	23	1982	5.16	0.0174	42.898	38.557	31.9888	27.4987	24.493	22.6042	21.615	21.416	21.9856	23.386	25.7745	29.4336	34.8268	42.6974		
3	22	1	1	1	22	1983	5.16	0.0185	42.4811	38.1823	31.678	27.2315	24.255	22.3846	21.405	21.2079	21.772	23.1588	25.5241	29.1476	34.4884	42.2825		
3	22	1	1	1	21	1984	5.25	0.0199	42.1484	37.8832	31.4299	27.0181	24.065	22.2092	21.2373	21.0417	21.6014	22.9773	25.3242	28.9193	34.2182	41.9513		
3	22	1	1	1	20	1985	5.33	0.0212	41.8016	37.5715	31.1713	26.7958	23.867	22.0265	21.0626	20.8686	21.4237	22.7883	25.1158	28.6813	33.9367	41.6061		
3	22	1	1	1	19	1986	5.42	0.0227	41.4811	37.2835	30.9323	26.5904	23.684	21.8576	20.9011	20.7086	21.2594	22.6136	24.9232	28.4614	33.6765	41.2871		
3	22	1	1	1	18	1987	5.51	0.0242	41.4811	37.2835	30.9323	26.5904	23.684	21.8576	20.9011	20.7086	21.2594	22.6136	24.9232	28.4614	33.6765	41.2871		
3	22	1	1	1	17	1988	5.59	0.0259	39.2351	35.6035	30.1088	26.3524	23.838	22.2579	21.4303	21.2638	21.7404	22.9119	24.9101	27.9712	32.483	39.0672		
3	22	1	1	1	16	1989	5.68	0.0277	40.2989	36.7017	31.2589	27.5381	25.0474	23.4823	22.6625	22.4976	22.9696	24.1301	26.1094	29.1415	33.6106	40.1327		
3	22	1	1	1	15	1990	5.77	0.0297	30.5289	27.8986	23.9189	21.1982	19.3771	18.2327	17.6333	17.5127	17.8578	18.7063	20.1536	22.3707	25.6384	30.4073		
3	22	1	1	1	14	1991	5.86	0.0316	30.8496	28.4029	24.701	22.1702	20.4762	19.4117	18.8541	18.7419	19.063	19.8523						

Mobile 6.2 Run

Heavy Duty Diesel Truck (8B) (>60,000 lbs GVWR)

Exhaust PM, pollutants (7) SO4 sulfate PM, (8) Organic Carbon Portion of Diesel PM & (9) Elemental Carbon Portion of Diesel PM

Calander Year 2005

Sulfur Content 500 ppm

POL Pollutant

Vtype Vehicle Type

Etype Emission Type (1= Exhaust Running Emissions)

Ftype Facilities Type (1= Highway (non-ramp))

MYR Model Year

Age Calander Year - model Year

REGDIST % of vehicle type this model year

PM

% of 8A Trucks 0%
 % of 8B Trucks 100%

Final HD Diesel Trucks g/mi	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701
Speed (mph)	2.5	5	10	15	20	25	30	35	40	45	50	55	60	65				
Composite 8A Trucks	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372	0.764372
Composite 8B Trucks	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701

#23 Heavy Duty Diesel Truck (8B) (>60,000 lbs GVWR)

		Scenario ->		1= running Facility Type (1= Freeway)																			
POL	VTYPE	ETTYPE	FTYPE	AGE	MYR	Avg Speed (mph) ->	REGDIST	2.5 mph	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph		
9	23	1	1	24	1981	5.16	0.0829	2.1063	2.1063	2.1063	2.1063	2.1063	2.1063	2.1063	2.1063	2.1063	2.1063	2.1063	2.1063	2.1063	2.1063	2.1063	
9	23	1	1	23	1982	5.16	0.0174	2.0217	2.0217	2.0217	2.0217	2.0217	2.0217	2.0217	2.0217	2.0217	2.0217	2.0217	2.0217	2.0217	2.0217	2.0217	
9	23	1	1	22	1983	5.16	0.0185	2.0162	2.0162	2.0162	2.0162	2.0162	2.0162	2.0162	2.0162	2.0162	2.0162	2.0162	2.0162	2.0162	2.0162	2.0162	
9	23	1	1	21	1984	5.25	0.0199	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	
9	23	1	1	20	1985	5.33	0.0212	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	
9	23	1	1	19	1986	5.42	0.0227	1.9949	1.9949	1.9949	1.9949	1.9949	1.9949	1.9949	1.9949	1.9949	1.9949	1.9949	1.9949	1.9949	1.9949	1.9949	
9	23	1	1	18	1987	5.51	0.0242	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	
9	23	1	1	17	1988	5.59	0.0259	1.8813	1.8813	1.8813	1.8813	1.8813	1.8813	1.8813	1.8813	1.8813	1.8813	1.8813	1.8813	1.8813	1.8813	1.8813	
9	23	1	1	16	1989	5.68	0.0277	1.8549	1.8549	1.8549	1.8549	1.8549	1.8549	1.8549	1.8549	1.8549	1.8549	1.8549	1.8549	1.8549	1.8549	1.8549	
9	23	1	1	15	1990	5.77	0.0297	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	
9	23	1	1	14	1991	5.86	0.0316	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	
9	23	1	1	13	1992	5.95	0.0339	0.6454	0.6454	0.6454	0.6454	0.6454	0.6454	0.6454	0.6454	0.6454	0.6454	0.6454	0.6454	0.6454	0.6454	0.6454	
9	23	1	1	12	1993	6.03	0.0362	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	
9	23	1	1	11	1994	6.12	0.0387	0.2415	0.2415	0.2415	0.2415	0.2415	0.2415	0.2415	0.2415	0.2415	0.2415	0.2415	0.2415	0.2415	0.2415	0.2415	
9	23	1	1	10	1995	6.21	0.0414	0.2395	0.2395	0.2395	0.2395	0.2395	0.2395	0.2395	0.2395	0.2395	0.2395	0.2395	0.2395	0.2395	0.2395	0.2395	
9	23	1	1	9	1996	6.3	0.0442	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	
9	23	1	1	8	1997	6.3	0.0473	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	
9	23	1	1	7	1998	6.3	0.0506	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	
9	23	1	1	6	1999	6.3	0.0541	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	
9	23	1	1	5	2000	6.3	0.0578	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	
9	23	1	1	4	2001	6.3	0.0618	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	
9	23	1	1	3	2002	6.3	0.0661	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	
9	23	1	1	2	2003	6.3	0.0706	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	
9	23	1	1	1	2004	6.3	0.0755	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	0.2375	
9	23	1	1	0	2005	6.3	0.0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weighted Average 8B						100.0%	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701	0.770701

#22 Heavy Duty Diesel Truck (8A) (33,001 to 60,000 lbs GVWR)

		Scenario ->		1= running Facility Type (1= Freeway)																		
POL	VTYPE	ETTYPE	FTYPE	AGE	MYR	Avg Speed (MPH) ->	REGDIST	2.5	5	10	15	20	25	30	35	40	45	50	55	60	65	
9	22	1	1	24	1981	5.16	0.0829	2.1064	2.1064	2.1064	2.1064	2.1064	2.1064	2.1064	2.1064	2.1064	2.1064	2.1064	2.1064	2.1064	2.1064	2.1064
9	22	1	1	23	1982	5.16	0.0174	2.0216	2.0216	2.0216	2.0216	2.0216	2.0216	2.0216	2.0216	2.0216	2.0216	2.0216	2.0216	2.0216	2.0216	2.0216
9	22	1	1	22	1983	5.16	0.0185	2.0161	2.0161	2.0161	2.0161	2.0161	2.0161	2.0161	2.0161	2.0161	2.0161	2.0161	2.0161	2.0161	2.0161	2.0161
9	22	1	1	21	1984	5.25	0.0199	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081	2.0081
9	22	1	1	20	1985	5.33	0.0212	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028	2.0028
9	22	1	1	19	1986	5.42	0.0227	1.9948	1.9948	1.9948	1.9948	1.9948	1.9948	1.9948	1.9948	1.9948	1.9948	1.9948	1.9948	1.9948	1.9948	1.9948
9	22	1	1	18	1987	5.51	0.0242	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743	2.0743
9	22	1	1	17	1988	5.59	0.0259	1.7605	1.7605	1.7605	1.7605	1.7605	1.7605	1.7605	1.7605	1.7605	1.7605	1.7605	1.7605	1.7605	1.7605	1.7605
9	22	1	1	16	1989	5.68	0.0277	1.7392	1.7392	1.7392	1.7392	1.7392	1.7392	1.7392	1.7392	1.7392	1.7392	1.7392	1.7392	1.7392	1.7392	1.7392
9	22	1	1	15	1990	5.77	0.0297	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894	1.1894
9	22	1	1	14	1991	5.86	0.0316	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513	0.6513
9	22	1	1	13	1992	5.95	0.0339	0.6453	0.6453	0.6453	0.6453	0.6453	0.6453	0.6453	0.6453	0.6453	0.6453	0.6453	0.6453	0.6453	0.6453	0.6453
9	22	1	1	12	1993	6.03	0.0362	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397	0.6397
9	22	1	1	11	1994	6.12	0.0387	0.2416	0.2416	0.2416	0.2416											

Mobile 6.2 Run

HC - VOCs

Heavy Duty Diesel Truck (8B) (>60,000 lbs GVWR)

HC (VOCs) (1)

Calander Year 2005

Sulfur Content 500 ppm

POL Pollutant

Vtype Vehicle Type

Etype Emission Type (1= Exhaust Running Emissions)

Ftype Facilities Type (1= Highway (non-ramp))

MYR Model Year

Age Calander Year - model Year

REGDIST % of vehicle type this model year

	Composite 8A Trucks	2.942193	2.585476	2.029743	1.628919	1.336308	1.120658	0.960706	0.841896	0.754206	0.690662	0.646559	0.618724	0.605266	0.605266
	Composite 8B Trucks	3.204386	2.815857	2.210613	1.774055	1.455383	1.220507	1.04631	0.916931	0.821406	0.752221	0.704169	0.673859	0.659217	0.659217
Final HD Diesel Trucks g/mi	3.204386	2.815857	2.210613	1.774055	1.455383	1.220507	1.04631	0.916931	0.821406	0.752221	0.704169	0.673859	0.659217	0.659217	
Speed (mph)	2.5	5	10	15	20	25	30	35	40	45	50	55	60	65	

#23 Heavy Duty Diesel Truck (8B) (>60,000 lbs GVWR)

		Scenario ->		1= running Facility Type (1= Freeway)																	
POL	VTYPE	ETYPE	FTYPE	AGE	MYR	Avg Speed (mph) ->	2.5 mph	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	
1	23	1	1	24	1981	5.16	0.0829	8.3327	7.3224	5.7485	4.6133	3.7846	3.1738	2.7208	2.3844	2.136	1.9561	1.8311	1.7523	1.7142	1.7142
1	23	1	1	23	1982	5.16	0.0174	8.1212	7.1365	5.6026	4.4962	3.6885	3.0933	2.6518	2.3239	2.0818	1.9064	1.7847	1.7078	1.6707	1.6707
1	23	1	1	22	1983	5.16	0.0185	8.1166	7.1325	5.5994	4.4937	3.6865	3.0915	2.6503	2.3226	2.0806	1.9054	1.7837	1.7069	1.6697	1.6697
1	23	1	1	21	1984	5.25	0.0199	8.0916	7.1105	5.5822	4.4798	3.6751	3.082	2.6421	2.3154	2.0742	1.8995	1.7782	1.7016	1.6646	1.6646
1	23	1	1	20	1985	5.33	0.0212	8.0825	7.1025	5.5759	4.4748	3.671	3.0785	2.6391	2.3128	2.0719	1.8973	1.7762	1.6997	1.6627	1.6627
1	23	1	1	19	1986	5.42	0.0227	7.0634	6.207	4.8728	3.9105	3.2081	2.6904	2.3064	2.0212	1.8106	1.6581	1.5522	1.4854	1.4531	1.4531
1	23	1	1	18	1987	5.51	0.0242	7.0634	6.207	4.8728	3.9105	3.2081	2.6904	2.3064	2.0212	1.8106	1.6581	1.5522	1.4854	1.4531	1.4531
1	23	1	1	17	1988	5.59	0.0259	4.0224	3.5347	2.775	2.227	1.8269	1.5321	1.3134	1.151	1.0311	0.9442	0.8839	0.8459	0.8275	0.8275
1	23	1	1	16	1989	5.68	0.0277	3.9722	3.4906	2.7403	2.1991	1.8041	1.513	1.297	1.1366	1.0182	0.9325	0.8729	0.8353	0.8172	0.8172
1	23	1	1	15	1990	5.77	0.0297	3.6134	3.1753	2.4928	2.0005	1.6411	1.3763	1.1799	1.034	0.9263	0.8482	0.7941	0.7599	0.7433	0.7433
1	23	1	1	14	1991	5.86	0.0316	2.0639	1.8136	1.4238	1.1426	0.9374	0.7861	0.6739	0.5906	0.5291	0.4845	0.4535	0.434	0.4246	0.4246
1	23	1	1	13	1992	5.95	0.0339	2.0443	1.7965	1.4103	1.1318	0.9285	0.7787	0.6675	0.585	0.524	0.4799	0.4492	0.4299	0.4206	0.4206
1	23	1	1	12	1993	6.03	0.0362	2.027	1.7812	1.3983	1.1222	0.9206	0.772	0.6619	0.58	0.5196	0.4758	0.4454	0.4263	0.417	0.417
1	23	1	1	11	1994	6.12	0.0387	2.0295	1.7834	1.4001	1.1236	0.9217	0.773	0.6627	0.5807	0.5202	0.4764	0.446	0.4268	0.4175	0.4175
1	23	1	1	10	1995	6.21	0.0414	1.9846	1.744	1.3691	1.0987	0.9014	0.7559	0.648	0.5679	0.5087	0.4659	0.4361	0.4173	0.4083	0.4083
1	23	1	1	9	1996	6.3	0.0442	1.9364	1.7016	1.3359	1.0721	0.8795	0.7376	0.6323	0.5541	0.4964	0.4546	0.4255	0.4072	0.3984	0.3984
1	23	1	1	8	1997	6.3	0.0473	1.8977	1.6676	1.3091	1.0506	0.8619	0.7228	0.6196	0.543	0.4864	0.4455	0.417	0.3991	0.3904	0.3904
1	23	1	1	7	1998	6.3	0.0506	1.8549	1.63	1.2796	1.0269	0.8425	0.7065	0.6057	0.5308	0.4755	0.4354	0.4076	0.3901	0.3816	0.3816
1	23	1	1	6	1999	6.3	0.0541	1.8077	1.5885	1.2471	1.0008	0.821	0.6885	0.5903	0.5173	0.4634	0.4244	0.3973	0.3802	0.3719	0.3719
1	23	1	1	5	2000	6.3	0.0578	1.7557	1.5428	1.2112	0.972	0.7974	0.6687	0.5733	0.5024	0.45	0.4121	0.3858	0.3692	0.3612	0.3612
1	23	1	1	4	2001	6.3	0.0618	1.6983	1.4923	1.1716	0.9402	0.7713	0.6468	0.5545	0.486	0.4353	0.3987	0.3732	0.3571	0.3494	0.3494
1	23	1	1	3	2002	6.3	0.0661	1.6349	1.4367	1.1279	0.9051	0.7426	0.6227	0.5338	0.4678	0.4191	0.3838	0.3593	0.3438	0.3363	0.3363
1	23	1	1	2	2003	6.3	0.0706	1.5665	1.3753	1.0797	0.8665	0.7108	0.5961	0.511	0.4478	0.4012	0.3674	0.3439	0.3291	0.322	0.322
1	23	1	1	1	2004	6.3	0.0755	1.0115	0.8888	0.6978	0.56	0.4594	0.3853	0.3303	0.2894	0.2593	0.2374	0.2223	0.2127	0.2081	0.2081
1	23	1	1	0	2005	6.3	0.0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Weighted Average 8B	100.0%	3.204386	2.815857	2.210613	1.774055	1.455383	1.220507	1.04631	0.916931	0.821406	0.752221	0.704169	0.673859	0.659217	0.659217
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#22 Heavy Duty Diesel Truck (8A) (33,001 to 60,000 lbs GVWR)

		Scenario ->		1= running Facility Type (1= Freeway)																	
POL	VTYPE	ETYPE	FTYPE	AGE	MYR	Avg Speed (MPH) ->	2.5 mph	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	
1	22	1	1	24	1981	5.16	0.0829	7.9369	6.9746	5.4755	4.3942	3.6048	3.0231	2.5916	2.2711	2.0346	1.8632	1.7442	1.6691	1.6328	1.6328
1	22	1	1	23	1982	5.16	0.0174	7.9528	6.9886	5.4864	4.403	3.6121	3.0291	2.5968	2.2757	2.0386	1.8669	1.7477	1.6724	1.636	1.636
1	22	1	1	22	1983	5.16	0.0185	7.8732	6.9186	5.4315	4.3589	3.5759	2.9988	2.5708	2.2529	2.0182	1.8482	1.7302	1.6557	1.6197	1.6197
1	22	1	1	21	1984	5.25	0.0199	7.8095	6.8627	5.3876	4.3236	3.547	2.9746	2.55	2.2347	2.0019	1.8333	1.7162	1.6423	1.6066	1.6066
1	22	1	1	20	1985	5.33	0.0212	7.7436	6.8047	5.3421	4.2871	3.517	2.9494	2.5285	2.2158	1.985	1.8178	1.7017	1.6284	1.593	1.593
1	22	1	1	19	1986	5.42	0.0227	6.7313	5.9151	4.6437	3.7267	3.0572	2.5639	2.1979	1.9261	1.7255	1.5801	1.4792	1.4155	1.3847	1.3847
1	22	1	1	18	1987	5.51	0.0242	6.7313	5.9151	4.6437	3.7267	3.0572	2.5639	2.1979	1.9261	1.7255	1.5801	1.4792	1.4155	1.3847	1.3847
1	22	1	1	17	1988	5.59	0.0259	3.4523	3.0337	2.3816	1.9113	1.568	1.3149	1.1273	0.9879	0.885	0.8104	0.7587	0.726	0.7102	0.7102
1	22	1	1	16	1989	5.68	0.0277	3.4167	3.0024	2.3571	1.8916	1.5518	1.3014	1.1156	0.9777	0.8758	0.802	0.7508	0.7185	0.7029	0.7029
1	22	1	1	15	1990	5.77	0.0297	3.2705	2.874	2.2562	1.8107	1.4854	1.2457	1.0679	0.9358	0.8384	0.7677	0.7187	0.6878	0.6728	0.6728
1	22	1	1	14	1991	5.86	0.0316	1.8707	1.6439	1.2906	1.0357	0.8497	0.7125	0.6108	0.5353	0.4795	0.4391	0.4111	0.3934	0.3848	0.3848
1	22	1	1	13	1992	5.95	0.0339	1.8555	1.6305	1.2801	1.0273	0.8428	0.7067	0.6059	0.531	0.4756	0.4356	0.4078	0.3902	0.3817	0.3817
1	22	1	1	12	1993	6.03	0.0362	1.8403	1.6172	1.2696	1.0189	0.8359	0.701	0.6009	0.5266	0.4718	0.432	0.4044	0.387	0.3786	0.3786
1	22	1	1	11	1994	6.12	0.0387	1.7073	1.5003	1.1778	0.9452	0.7754	0.6503	0.5575	0.4885	0.4377	0.4008	0.3752	0.359	0.3512	0.3512
1	22	1	1	10	1995	6.21	0.0414	1.6773	1.474	1.1571	0.9286	0.7618	0.6389	0.5477	0.48	0.43	0.3937	0.3686	0.3527	0.3451	0.3451
1	22	1	1	9	1996	6.3	0.0442	1.6471	1.4474	1.1363	0.9119	0.7481	0.6274	0.5378	0.4713	0.4222	0.3867	0.362	0.3464	0.3388	0.3388
1	22	1	1	8	1997	6.3	0.0473	1.623	1.4262	1.1197	0.8986	0.7372	0.6182	0.53	0.4644	0.416	0.381	0.3567	0.3413	0.3339	0.3339
1	22	1	1	7	1998	6.3	0.0506	1.596	1.4025	1.101	0.8836	0.7249	0.6079	0.5211	0.4567	0.4091	0.3746	0.3507	0.3356	0.3283	0.3283
1	22	1	1	6	1999	6.3	0.0541	1.5656	1.3758	1.0801	0.8668	0.7111	0.5963	0.5112	0.448	0.4013	0.3675	0.344	0.3292	0.3221	0.3221
1	22	1	1	5	2000	6.3	0.0578	1.5315	1.3458	1.0565	0.8479	0.6956	0.5833	0.5001	0.4382	0.3926	0.3595	0.3366	0.3221	0.3151	0.3151
1	22	1	1	4	2001	6.3	0.0618	1.4932	1.3122	1.0301	0.8267	0.6782	0.5688	0.4876	0.4273	0.3828	0.3505	0.3281	0.314	0.3072	0.3072
1	22	1	1	3	2002	6.3															

Mobile 6.2 Run
Heavy Duty Diesel Truck (8B) (>60,000 lbs GVWR)
CO (2)

CO

Calander Year 2005		% of 8A Trucks		0%													
Sulfur Content 500 ppm		% of 8B Trucks		100%													
POL	Pollutant																
Vtype	Vehicle Type																
Etype	Emission Type (1= Exhaust Running Emissions)	Composite 8A Trucks		27.13898	22.15435	15.27601	11.02356	8.325166	6.579984	5.44274	4.711632	4.268591	4.047234	4.015983	4.170485	4.53255	5.155351
Ftype	Facilities Type (1= Highway (non-ramp))	Composite 8B Trucks		34.18334	27.90485	19.24114	13.88489	10.4861	8.287929	6.855504	5.934611	5.376571	5.097757	5.058398	5.253009	5.709041	6.493496
MYR	Model Year																
Age	Calander Year - model Year																
REGDIST	% of vehicle type this model year																
		Final HD Diesel Trucks g/mi	34.18334	27.90485	19.24114	13.88489	10.4861	8.287929	6.855504	5.934611	5.376571	5.097757	5.058398	5.253009	5.709041	6.493496	
		Speed (mph)	2.5	5	10	15	20	25	30	35	40	45	50	55	60	65	

#23 Heavy Duty Diesel Truck (8B) (>60,000 lbs GVWR)

		Scenario ->		1 2 3 4 5 6 7 8 9 10 11 12 13 14																			
		1= running Facility Type (1= Freeway)		Avg Speed (mph) ->																			
POL	VTYPE	ETYPE	FTYPE	AGE	MYR	MPG	REGDIST	GM_MILE	2.5 mph	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	
2	23	1	1	24	1981	5.16	0.0829	103.0574	84.1288	58.009	41.8608	31.614	24.9868	20.6683	17.8919	16.2095	15.3689	15.2503	15.837	17.2119	19.5769		
2	23	1	1	23	1982	5.16	0.0174	95.8673	78.2593	53.9619	38.9402	29.4083	23.2435	19.2263	16.6436	15.0786	14.2967	14.1863	14.7321	16.011	18.211		
2	23	1	1	22	1983	5.16	0.0185	97.8922	79.9123	55.1017	39.7627	30.0295	23.7345	19.6324	16.9952	15.3971	14.5987	14.486	15.0433	16.3492	18.5957		
2	23	1	1	21	1984	5.25	0.0199	95.9209	78.3031	53.9921	38.962	29.4248	23.2566	19.237	16.6529	15.0871	14.3047	14.1943	14.7403	16.02	18.2212		
2	23	1	1	20	1985	5.33	0.0212	95.1107	77.6416	53.536	38.6329	29.1762	23.0601	19.0745	16.5123	14.9596	14.1838	14.0743	14.6158	15.8847	18.0673		
2	23	1	1	19	1986	5.42	0.0227	94.8551	77.433	53.3921	38.5291	29.0978	22.9981	19.0233	16.4679	14.9194	14.1457	14.0365	14.5765	15.842	18.0188		
2	23	1	1	18	1987	5.51	0.0242	94.6203	77.2413	53.26	38.4337	29.0258	22.9412	18.9762	16.4271	14.8825	14.1107	14.0018	14.5405	15.8028	17.9742		
2	23	1	1	17	1988	5.59	0.0259	104.859	85.5994	59.0231	42.5925	32.1666	25.4236	21.0296	18.2047	16.4929	15.6376	15.5169	16.1138	17.5127	19.9191		
2	23	1	1	16	1989	5.68	0.0277	22.9112	18.703	12.8963	9.3063	7.0282	5.5549	4.5949	3.9776	3.6036	3.4167	3.3904	3.5208	3.8264	4.3522		
2	23	1	1	15	1990	5.77	0.0297	24.1444	19.7098	13.5904	9.8072	7.4065	5.8539	4.8422	4.1917	3.7976	3.6007	3.5729	3.7103	4.0324	4.5865		
2	23	1	1	14	1991	5.86	0.0316	21.9905	17.9515	12.378	8.9323	6.7458	5.3317	4.4102	3.8178	3.4588	3.2794	3.2541	3.3793	3.6727	4.1773		
2	23	1	1	13	1992	5.95	0.0339	21.3898	17.4611	12.0399	8.6883	6.5615	5.1861	4.2897	3.7135	3.3643	3.1899	3.1652	3.287	3.5724	4.0632		
2	23	1	1	12	1993	6.03	0.0362	21.1056	17.2291	11.8799	8.5728	6.4744	5.1172	4.2327	3.6642	3.3196	3.1475	3.1232	3.2433	3.5249	4.0092		
2	23	1	1	11	1994	6.12	0.0387	14.1009	11.5109	7.9371	5.7276	4.3256	3.4188	2.8279	2.4481	2.2179	2.1029	2.0866	2.1669	2.355	2.6786		
2	23	1	1	10	1995	6.21	0.0414	13.8149	11.2775	7.7762	5.6115	4.2379	3.3495	2.7706	2.3984	2.1729	2.0602	2.0443	2.123	2.3073	2.6243		
2	23	1	1	9	1996	6.3	0.0442	13.5093	11.028	7.6041	5.4873	4.1441	3.2754	2.7093	2.3454	2.1248	2.0146	1.9991	2.076	2.2562	2.5662		
2	23	1	1	8	1997	6.3	0.0473	13.2764	10.8379	7.473	5.3927	4.0727	3.2189	2.6626	2.3049	2.0882	1.9799	1.9646	2.0402	2.2173	2.522		
2	23	1	1	7	1998	6.3	0.0506	13.0194	10.6281	7.3284	5.2883	3.9938	3.1566	2.6111	2.2603	2.0478	1.9416	1.9266	2.0007	2.1744	2.4732		
2	23	1	1	6	1999	6.3	0.0541	12.736	10.3967	7.1688	5.1732	3.9069	3.0879	2.5542	2.2111	2.0032	1.8993	1.8846	1.9572	2.1271	2.4193		
2	23	1	1	5	2000	6.3	0.0578	12.4232	10.1415	6.9928	5.0462	3.811	3.0121	2.4915	2.1568	1.954	1.8527	1.8384	1.9091	2.0748	2.3599		
2	23	1	1	4	2001	6.3	0.0618	12.0783	9.8598	6.7986	4.9061	3.7051	2.9284	2.4223	2.0969	1.8997	1.8012	1.7873	1.8561	2.0172	2.2944		
2	23	1	1	3	2002	6.3	0.0661	11.6977	9.5492	6.5844	4.7515	3.5884	2.8362	2.346	2.0309	1.8399	1.7445	1.731	1.7976	1.9537	2.2221		
2	23	1	1	2	2003	6.3	0.0706	11.2779	9.2064	6.3481	4.5809	3.4596	2.7344	2.2618	1.958	1.7739	1.6819	1.6689	1.7331	1.8835	2.1424		
2	23	1	1	1	2004	6.3	0.0755	10.8147	8.8284	6.0874	4.3928	3.3175	2.6221	2.1689	1.8776	1.701	1.6128	1.6003	1.6619	1.8062	2.0544		
2	23	1	1	0	2005	6.3	0.0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		Weighted Average 8B		100.0%	34.18334	27.90485	19.24114	13.88489	10.4861	8.287929	6.855504	5.934611	5.376571	5.097757	5.058398	5.253009	5.709041	6.493496					

#22 Heavy Duty Diesel Truck (8A) (33,001 to 60,000 lbs GVWR)

		Scenario ->		1 2 3 4 5 6 7 8 9 10 11 12 13 14																		
		1= running Facility Type (1= Freeway)		Avg Speed (MPH) ->																		
POL	VTYPE	ETYPE	FTYPE	AGE	MYR	MPG	REGDIST	GM_MILE	2.5 mph	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph
2	22	1	1	0.0000	1981	0.0829	0.0829	79.5273	64.9205	44.7644	32.3031	24.3958	19.2818	15.9493	13.8068	12.5086	11.8599	11.7683	12.2211	13.282	15.1071	
2	22	1	1	0.0000	1982	0.0174	0.0174	76.8002	62.6942	43.2293	31.1954	23.5593	18.6206	15.4023	13.3334	12.0796	11.4532	11.3648	11.802	12.8266	14.589	
2	22	1	1	0.0000	1983	0.0185	0.0185	77.2513	63.0625	43.4833	31.3786	23.6977	18.73	15.4928	13.4117	12.1506	11.5205	11.4315	11.8713	12.9019	14.6747	
2	22	1	1	0.0000	1984	0.0199	0.0199	75.8293	61.9017	42.6828	30.801	23.2614	18.3852	15.2076	13.1648	11.9269	11.3084	11.2211	11.6528	12.6644	14.4046	
2	22	1	1	0.0000	1985	0.0212	0.0212	74.8374	61.0919	42.1245	30.3981	22.9572	18.1447	15.0087	12.9926	11.7709	11.1605	11.0743	11.5004	12.4988	14.2162	
2	22	1	1	0.0000	1986	0.0227	0.0227	74.2991	60.6525	41.8215	30.1795	22.792	18.0142	14.9008	12.8991	11.6862	11.0802	10.9947	11.4177	12.4089	14.1139	
2	22	1	1	0.0000	1987	0.0242	0.0242	72.687	59.3365	40.9141	29.5246	22.2975	17.6233	14.5774	12.6193	11.4327	10.8398	10.7561	11.1699	12.1396	13.8077	
2	22	1	1	0.0000	1988	0.0259	0.0259	65.6389	53.583	36.9469	26.6618	20.1354	15.9145	13.1639	11.3956	10.3241	9.7887	9.7132	10.0868	10.9625	12.4688	
2	22	1	1	0.0000	1989	0.0277	0.0277	17.7947	14.5263	10.0163	7.228	5.4587	4.3144	3.5687	3.0894	2.7989	2.6537	2.6332	2.7345	2.9719	3.3803	
2	22	1	1	0.0000	1990	0.0297	0.0297	20.0857	16.3966	11.3059	8.1586	6.1615	4.8699	4.0282	3.4871	3.1592	2.9954	2.9723	3.0866	3.3546	3.8155	
2	22	1	1	0.0000	1991	0.0316	0.0316	18.9186	15.4438	10.6489	7.6845	5.8035	4.5869	3.7941	3.2845	2.9756	2.8213	2.7996	2.9073	3.1596	3.5938	
2	22	1	1	0.0000	1992	0.0339	0.0339	18.7206	15.2822	10.5375	7.6041	5.7428	4.5389	3.7544	3.2501	2.9445	2.7918	2.7703	2.8768	3.1266	3.5562	
2	22	1	1	0.0000	1993	0.0362	0.0362	18.3222	14.957	10.3132	7.4423	5.6205	4.4423	3.6745	3.1809	2.8818	2.7324	2.7113	2.8156	3.06	3.4805	
2	22	1	1	0.0000	1994	0.0387	0.0387	11.8147	9.6447	6.6503	4.799	3.6243	2.8645	2.3694	2.0512	1.8583	1.7619	1.7483	1.8156	1.9732	2.2443	
2	22	1	1	0.0000	1995	0.0414	0.0414	11.6342	9.4974	6.5487	4.7257	3.5689	2.8208	2.3333	2.0198	1.8299	1.7216	1.7216	1.7878	1.9431	2.21	
2	22	1	1	0.0000	1996	0.0442	0.0442	11.4409	9.3395	6.4398	4.6472	3.5096	2.7739	2.2945	1.9863	1.7995	1.7062	1.693	1.7581	1.9108	2.1733	
2	22	1	1	0.0000	1997	0.0473	0.0473	11.308	9.2311	6.3651	4.5932	3.4689	2.7417	2.2678	1.9632	1.7786	1.6864	1.6733	1.7377	1.8886	2.1481	
2	22	1	1	0.0000	1998	0.0506	0.0506	11.1589	9.1094	6.2811	4.5326	3.4231	2.7055	2.2379	1.9373	1.7551	1.6641	1.6513	1.7148	1.8637	2.1198	
2	22	1	1	0.0000	1999	0.0541	0.0541															